

# Multan Electric Power Company Limited POWER DISTRUBUTION BUSINESS (WIRE BUSINESS)

# **MULTI YEAR TARIFF PETITION**

# F.Y. 2020-21 TO F.Y. 2024-25

**DISTRIBUTION LICENSE No. 06/DL/2002** 

03<sup>rd</sup> May, 2021



# MULTAN ELECTRIC POWER COMPANY LIMITED

Ph: # 061-9220095 PBX-061-9210380-84/2058, 2093 Fax: 061-9220116

OFFICE OF THE FINANCE DIRECTOR

No. FDM/BS/Tariff-XXIV/ 29737 Forin The Registrar, -Adl. Div(I/OR-T National Electric Power Regulatory Authority, NEPRA Tower, Atta Turk venue, 515121 copy to: Sector G-5/1, Islamabad. MULCA ncucimrE! - LACAIP. Subject: -**DETERMINATION OF DISTRIBUTION TARIFF FOR FY 2020-21** TO FY <u>2024-25 – MEPCO (LICENSE # 06 DL/2002)</u> NEPRA letter Nos. NEPRA/R/ADG(Trf)/TRF-492/MEPCO-2019/46481-46483 dated Ref: -24-12-2020 & NEPRA/ ADG(Trf)/TRF-100/ XWDISCOS /18743-50 dated 05-04-

2021.

With reference to above cited letters, the Multiyear Tariff Petition (MYT) in respect of MEPCO for determination of Distribution Tariff for FY 2020-21 to FY 2024-25 under Multiyear Tariff Regime is enclosed herewith.

In this respect, it is requested to admit the subject petition for determination of the Tariff for the said period please.

REGISTRAR Dy. No: 82-F. January S.-S.- 26-81

DA/ 1. Affidavit in original (one page)
2. Tariff Petition (46-Pages)
3. Bank Draft for Rs.1,031,931 /-Gross Fee Rs.1,121,664/-Withholding Tax <u>Rs. 89.733/-</u> Net value of DD Rs. 1,031,931/- Mettelte

ENGR. IKRAM-UL-HAQ Chief Executive Officer



# 14 24 55 4 2#O 140000 1000 17574000 10000 #O 10.

# AFFIDAVIT



## Before the National Electric Power Regulatory Authority

## <u>Affidavit</u>

I, Engr. Ikram-ul-Haq, Chief Executive Officer, Multan Electric Power Company Limited (Distribution License # 06/DL/2002) being duly authorized representative/attorney of Multan Electric Power Company Limited, hereby solemnly affirm and declare that the contents of the accompanying Multi Year Tariff Petition/application for its Distribution Business vide No.FDM/BS/Tariff/XXIV/29737dated 3<sup>rd</sup> May, 2021 including all supporting documents are true and correct to the best of my knowledge and belief and that nothing has been concealed. I also affirm that all further documentation and information to be provided by me in connection with the accompanying petition shall be true to the best of my knowledge and belief.

DEPONENT

Engr. Ikram-ul-Haq Chief Executive Officer, Multan Electric Power Company Limited (MEPCO)

Verified on oath this 3<sup>rd</sup> day of May 2021 that the contents hereof are true and correct to the best of my knowledge and belief and nothing has been concealed.

DEPONENT



# 14 24 58 4 2#0 140000 COO 17 574000 10000 #0 10#



# MULTAN ELECTRIC POWER COMPANY LIMITED

Tele: 061-9210352 PBX- 9210380-84

Office of the Chief Executive Officer

Dated 30-9-2009

NO. 10901 /Company Secy:

The Finance Director, MEPCO H.Q. Muitan.

Subject: -

#### :- <u>AUTHORIZATION TO CHIEF EXECUTIVE OFFICER TO FILE</u> THE TARIFF PETITION

It is informed that the Board of Directors in its 59<sup>th</sup> Meeting held on July 14, 2009 at MEPCO Head Quarter Multan has passed the below noted Resolution: -

"Resolved that Chief Executive Officer MEPCO be and is hereby authorized to file the Tariff Petition with NEPRA whenever required in future."

> (Engr. Shahbaz Ahmed Khan) Company Secretary MEPCO

# **DIP SUBMISSION**

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## MULTAN ELECTRIC POWER COMPANY LIMITED

Ph: # 061-9220095 PBX-061-9210380-84/2058, 2093 Fax: 061-9220116

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OFFICE OF THE FINANCE DIRECTOR

Date:

No.FDM/BS/MYT Petition/ <u>29618-</u>90

The Registrar,

National Electric Power Regulatory Authority, NEPRA Tower, Ataturk Avenue (East), Sector G-5/1, Islamabad.

#### Subject: - DISTRIBUTION INTEGRATED INVESTMENT PLAN (DIIP) OF MEPCO FOR FY 2020-21 TO FY 2024-25.

Ref: -

Determination of Distribution Tariff in respect of MEPCO conveyed vide Registrar NEPRA letters No. NEPRA / R / ADG (Trf) / TRF-492 / MEPCO -2019 / 46481-46483 dated 24/12/2020

In compliance to the Authority's direction imparted vide above referred Determination for FY 2018-19 & FY 2019-20, the five year Distribution Integrated Investment Plan (DIIP) for FY 2020-21 to FY 2024-25 (DIIP alongwith 20 Nos. Annexure) in respect of MEPCO is attached for information and necessary action please.

DA/Complete MEPCO DIIP (FY 2021-25) Comprising 04 Volumes

**ENGR. IKRAM-UL-HAO** Chief Executive Officer

C.C. to: -

- 1. The General Manager (Tech.), MEPCO Ltd., Multan for information.
- 2. The Chief Strategic Planner, MEPCO Ltd., Multan w.r.to his letter 4474-75/CE(P&E) dated 30.04.2021 vide which subject DIIP forwarded to this office.

# COMPLIANCE TO NEPRA DIRECTIONS

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	100 have been the and 12 District of Constheme
achievement of performance standards as laid down in NEPRA Performance Standards (Distribution) Rules, 2005	(M) consumers base spreading over 13 Districts of Southern Punjab and distribution system is expanding sharply due to village electrification, installation of tube well, industrial & other general connections & 8% load is being extended every year and extra burden increases day by day on the existing distribution system. One pertinent point to highlight is that MEPCO is providing continuity of electricity with acute shortage of human resource to run the complex Power System in such a large area of Punjab. Detail of Guaranteed/overall Standards of NEPRA are as under: - <b>Guaranteed Standard 1 Urban (GS1U)</b> Restoration of Supply as per NEPRA Standard GS1U = 10 hrs
	Guaranteed Standard 1 Rural (GS1R) Restoration of Supply as per NEPRA Standard GS1R = 16 hrs
	Guaranteed Standard 2. Minimization of No. of unplanned long duration power supply interruptions.
	Guaranteed Standard 3. Minimization of Duration of unplanned long duration power supply interruptions. Guaranteed Standard 4. Minimization of No. of planned long duration power supply interruptions. Guaranteed Standard 5. Minimization of Duration of planned long duration power supply interruptions.
	Guaranteed Standard 6. Minimization of No. of unplanned short duration power supply interruptions.
	Overall Standard 1. Minimization of System average interruptions. Frequency index (SAIFI).
	<b>Overall Standard 2.</b> Minimization of System average interruption duration index (SAIDI).
	<b>Overall Standard 4.</b> Maintaining the Nominal voltage level of power system.
	<b>Overall Standard 5.</b> Maintaining the Frequency of power system.
	The following remedial measures have been taken by MEPCO for the achievement of above Performance Standards on regular basis which is as under: -
	<ul> <li>Construction of new grid stations.</li> <li>Construction of new transmission lines.</li> <li>Up-gradation / conversion of 33 KV to 66 KV to 132KV grid stations.</li> <li>Extension of grid stations.</li> </ul>
	<ul> <li>Extension of grid stations.</li> <li>Augmentation of power transformers.</li> <li>HT proposals of overloaded, under constraints and</li> </ul>

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and also provide breakup of the said postretirement benefits indicating the provision amount pertaining to the prior period and the current portion by June 30, 2021.

actual payments for the FY 2015-16 till FY 2019-20. The year wise gap is given below: Provisions & Allowed Gap

		PKR Mill	ion
Year	Actual Provisions	Allowed by NEPRA	Gap
2015-16	7,327	2,134	5,193
2016-17	4,930	2,461	2,469
2017-18	6,550	2,707	3,843
2018-19	8,679	4,232	4,447
2019-20	12,233	4,655	7,578
Total	39,720	16,189	23,531

The Authority discussed in Para-25.6 and 25.9 of the latest determination that provisions were allowed before FY 2012-13 which were not deposited in Pension Fund.

In this regard, it is submitted that the amount allowed at that time was also inadequate in relation to actual provision. The comparison between the amount allowed and actual provision during FY 2009-10 to 2011-12 is given below:

· · · · · · · · · · · · · · · · · · ·	FY	Pay & Allowances (Incl. Post Retirement Benefits) Determined	Actua & Allowa excl. Retire Bene	<b>I Pay</b> ances Post ment efits	Am Avai for Retir Ben	ount ilable Post ement refits	Actual Post Retireme Benefits	nt	Less Determined
	2009-10	3,490	2	2,674		816	1,7:	59	(943)
	2010-11	4,014	3	3,687		327	2,00	)9	(1,682)
	2011-12	4,616	4	1,467		149	2,52	27	(2,378)
	Total	12,120	1(	),828		1292	6,2	95	(5,003)
xiv. To provide project wise report for	]	Description		2015	-16	2016-	17 201	7-18	Total
FY 2018-19 and for previous years	· ·	HT Proposa	ls	- 11		.49		21	81
i.e. FY 2016-17 & FY 2017-18	ELR	LT Proposa	ls	31	9	516	3	11	1,140
along-with its cost/benefit analysis and technical / financial savings		Total Exp. (	Rs.)	1,1	83	1,53	8 1,	654	4,375
achieved by March 31, 2020. Carry		HT Proposa	ls	9	-	19		4	32
out detailed analysis about the hard		Aug. of T/F		86	9	1,47	5 2,	287	4,631
earlier studies.	DOP	Rep.of 2-Ph	. T/F	38	8	526	2	49	1,163
-		Total Exp. (	Rs.)	85	1	1,31	8 1,	099	3,268
		New Grids		1		2		1	4
		Conversion	s	1		4		3	8
		Augmentati	ons	20	)	38		13	71
	SIG	Extensions		1:	5	11		16	42
·		T/Lines		8		9		9	26
		Total Exp.	(Rs.)	3,3	87	4,03	8 3,	553	10,978
	Total	Total Exp.	(Rs.)	5,4	21	6,89	4 6,	306	18,621
xy. Take remedial measures for	MEPCO	is the big	gest d	listrib	ution	comp	any hav	/ing	about 6.8

vi.	To give clear disclosures in its Financial Statements with respect to the break-up of costs in terms of	Tl fii di	ne Financial Standing of Stand	atements of MEPCO the receipt of this d omplied in financial sta	for FY 2019-20 we lirection. However, th atements of FY 2020-2	re iis 1.
1	Distribution and Supply Businesses					
vii	To ensure proper tagging of assets so	м	FPCO is the la	rgest DISCO in Paki	istan with 09 Operation	
VII.	that costs incurred are properly	C	ircles. 02 GSO	Circles, 02 M&T Ci	ircles and 38 Operation	on
	classified as per their nature and	D	ivisions. The cos	ts incurred for the reha	bilitation, expansion a	nd
{	report be submitted to the Authority	al	lied works are	properly classified a	s per their nature in	ito
	by June 30, 2021.	di	fferent categorie	s of assets. The taggin	ng of assets is a lengtl	'nу
		ac	tivity and repo	ort in this regard sh	all be submitted up	on
L			mpleting of the	same.		
V111.	To provide the required details of	ם	etail is as under	Da in M	Gillion	
1	the consumers and any invoice raised		Financial	KS. III M	Markup on	
	by CPPA (G) under the head of	[	Year	Charges	delayed navments	
{	mark-up on delayed payments for the		i cai	recovered from	raised by CPPA-G	
	period from FY 2014-15 to FY 2019-		[	consumers		 
	20, by March 31, 2021		2014-15	1,335		
			2015-16	825	825	•
			2016-17	1,841	0	ŀ
			2017-18	2,087	1,642	I
			2018-19	2,171	2,171	
	To proport cohomos to exten for		2019-20	1,848	1,848	
	future demand and for removal of		r EV 2020 21 to	FV 2024 25 in rospan	t of MEDCO has alread	an
	system overloading/constraints A	be	en sent to NEPR	A (letter attached)	a of where of has alread	Jy
	detailed report shall be submitted as			r (lottor attaoned).		
	part of its 5-years IGTDP for					
	approval of the Authority before					
1	filing of next tariff petition as per					
	requirement under NEPRA				•	
	Guidelines for determination of					
	and Process) 2015				• •	
x	To immediately provide electricity	M	EPCO is vigoro	usly nursuing installati	ion of connections to a	-11
	connections to all the pending	De	nding ripe applic	asiy pursuing instantal		1:1
	applications without further delay	Pr	ogress report of	installation of new co	nnections of each mon	th
	and submit a progress report in this	is	submitted regula	rly to NEPRA. Progre	ess of installation of ne	W
]	regard by the end of each quarter	co	nnections of 03/	2021 has been sent vid	e office letter No.1954	2-
<u> </u>		46	dated: 15.04.20	21 (copy attached).		
X1.	lo immediately establish a corporate	D1	rector Commerc	tial MEPCO Multan	has been nominated	as
]	in terms of provision of electricity	10 Vi	de letter No 481	Dive the issue relating	10 Corporate Consume	IS 25
	and to address the issues of	A	nexB.	0-204 dated, 10.01.20	21. Report is attached	دىم
	overbilling, if any, on priority basis					
	and submit report to the Authority by					
L	March 31, 2021		· · · · · · · · · · · · · · · · · · ·			
xii.	To target high loss feeders to bring	M	EPCO Distributi	on Integrated Investm	ient Plan (DIIP) for F	Y
1	the overall losses down. A detailed	20	20-21 to FY 20.	24-25 has already bee	n sent to NEPRA (lett	er
	the Authority by March 31, 2021 for	au	ached).			
.	monitoring the progress of MEPCO					:
	in this respect					
xiii.	Transfer the already collected	M	EPCO suffered	a gap of Rs. 23,531.	/- Million in the actu	al
1	provision on account of Post-	pr	ovisions for pos	t-retirement benefits a	as per audited Financi	ai
1	Reurement benefits into the Fund	SU	atements and th	e amount anowed by	INDERNA DASED ON U	10

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Ph: # 061-9220095 PBX-061-9210380-84/2058, 2058 Fax: 061-9220116

#### No. FDM/BS/Tariff / <u>29672</u>

OFFICE OF THE FINANCE DIRECTOR

Date: 03 /05/2021

The Director, Registrar Office, National Electric Power Regulatory Authority, NEPRA Tower, Atta Turk venue (East), Sector G-5/1, Islamabad.

# Subject:

#### MONITORING OF DIRECTIONS OF THE AUTHORITY SPECIFIED IN CONSUMER END TARIFF DETERMINATIONS OF MEPCO FOR THE 5Y 2018-19 & 2019-20 FOR ITS DISTRIBUTION (WIRE) BUSINESS.

MULTAN ELECTRIC POWER COMPANY LIMITEI

Ref: -

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MEPCO tariff determination conveyed vide NEPRA letter No. NEPRA/R/ADG(Trf) /TRF-492/MEPCO-2019/46484 dated 24/12/2020.

In pursuance of above references, the requisite information is as under please: -

	NEPRA Directions	Compliance
i.	File Multi Year Tariff Petition for a tariff control period of five year to avoid any delay in tariff determinations.	The Multi Year Tariff Petition for FY 2020-21 to FY 2024-25 will be submitted to Authority very soon.
ii.	To immediately stop the existing practice of deducting 20% of SAP funds for grid augmentation and carry out the augmentation of the grid after coordinating with the Ministry of Energy and report be shared with the Authority by December 31, 2020.	Direction disseminated to all relevant offices under MEPCO and implemented.
iii.	To immediately ensure that consumer's deposits are not utilized for any other purpose and the same is reflected in the Audited accounts for the FY 2020-21 & onward	Consumer deposits are used for the purpose for which these are received by MEPCO. These are reflected in the audited accounts of the company every year in line with IAS & Companies Act, 2017 (copy of Financial Statement attached).
iv.	To immediately restrain from unlawful utilization of receipts against deposit works and security deposits immediately, and the same is reflected in the Audited accounts for the FY 2020-21 & onward.	There is no unlawful utilization of receipts against Deposit Works and Security Deposits on the part of MEPCO. These receipts are being reflected in the audited accounts o the company every year in line with the applicable rules. Relevant page of audited financial statements of FY 2019-20 is attached.
v.	To give clear disclosures in its Financial Statements with respect to the consumer financed spares and stores, work in progress and cash & bank balance for the FY 2020-21 & onward.	MEPCO is already giving disclosures as required under the IAS applicable in Pakistan. However, the specific disclosures will be given in the audited accounts of FY 2020-21.

	le lo sy e L e A o M tra tra tra Rudget	ngthy 11KV feede sses will be execu- stem. T proposals. ugmentation / addi laintenance of tran- ansformers and ansformers. eplacement of 2/pt INVESTMENT	ers with ited in o tion of d nsmissio 11KV/L nase trans DETAII Nos	high voltages of rder to provide istribution tran n lines, grid s T lines and formers. FOR FY 202 Investment	drop and high e relief to the sformers. tation, Power distribution -21 Yearly
	Head			Amount (M PKR)	Saving (Mkwh)
	ELR	HT Proposals Rehabilitation	57 591	2,130	107.98
 · · · · · · · · · · · · · · · · · · ·		HT Proposals Connectivity	18		
the second	DOP	Addition of Transformers 2-Phase	986	600	6.5
		Transformers Replacement	292		
		New Grids 66KV to 132KV Conversions	2		
	STG	Grid Stations Extensions	8	3,207	36
		of Power Transformers	17		
		Transmission Lines	(131 KM)		
	• M all co	EPCO introduced kind of complai mplaints detail is a	the follonts and s under:	owing portals t voltage level	o redress the & frequency
	<ul> <li>MI</li> <li>CC</li> <li>CC</li> <li>Fee</li> <li>Fee</li> </ul>	EPCO toll free No. 2MS toll free No. 1 2MS SMS service 8 deral complaint cel vision) Islamabad	0800-63 18. 3118. Il (FCC),	726. Ministry of Er	nergy (Power
	<ul> <li>Pri</li> <li>Mi</li> <li>Co</li> </ul>	me Minister's nister's Office Isla mplaints centers	Delivery mabad c in each	Unit (PMI omplaints. sub-division	DU), Prime / Division/
	> Co	mplaints received	through (	lak/email in M	EPCO.
	Overall St Installation • MI con	andard 3. a of new connection EPCO trying its 1 nsumers within tim	n within best to gue limit.	time frame. give new conn	ection to its
	• Gi	ving priority to ins	tallation	or new connect	uon.

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	<ul> <li>Overall Standard 6.</li> <li>Observation of Priorities and principals load shedding.</li> <li>MEPCO shall have plan and schedules available to shed up within the NEPRA Standards as per instructions from NTDC.</li> </ul>
	<ul> <li>Overall Standard 7.</li> <li>Promotion of Safety culture.</li> <li>Safety committee meeting at Sub Divisional, Divisional, Circle and regional levels are being conducted regularly</li> </ul>
	<ul> <li>to promote safety culture among line staff.</li> <li>To safeguard the precious lives of line staff as well as public lives, Safety seminars are being held regularly at Divisional / Circle level in each month and participation of maximum line staff is ensured</li> </ul>
	<ul> <li>MEPCO is providing very good quality T&amp;P / PPE to line staff. MEPCO has nominated inspectors for national and international inspections of materials for quality assurance.</li> </ul>
	<ul> <li>Safety instructions in Urdu are being sent to all SDOM LSs, LFMs, LM-I, LM-II and ALMs by PEPCO and MEPCO on their mobile numbers on daily basis to promote safety culture and improve safety awareness.</li> </ul>
	<ul> <li>MEPCO Authority is monitoring safety activities on daily basis and in case of violation, strict actions are being taken against the officials / officers at fault to avoid any accident.</li> </ul>
<u>DA/as above.</u>	Onettelle

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ENGR. IKRAM-UL-HAQ Chief Executive Officer

# MULTIYEAR TARIFF (MYT) PETITION

Multan Electric Power Company Ltd.



# Multi Year Tariff Petition of Distribution Tariff For FY 2020-21 to FY 2024-25

(May 3, 2021)

MEPCO HEADQUARTER KHANEWAL ROAD MULTAN

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# List of Abbreviations

AMI	Advanced Metering Infrastructure	LPS	Late Payment Surcharge
AMR	Automated Meter Reading	MDI	Maximum Demand Indicator
BOD	Board of Directors	MEPCO	Multan Electric Power Company Limited
BPS	Basic Pay Scale	MIRAD	Market Implementation & Regulatory Affairs Department
Bps	Basis Points	MYT	Multi-year Tariff
CAGR	Compounded Average Growth Rate	NEPRA	National Electric Power Regulatory Authority
САРМ	Capital Asset Pricing Model	NTDCL	National Transmission and Despatch Company Ltd.
CPI	Consumer Price Index	0&M	Operations and maintenance
CPP	Capacity Purchase Price	OFA	Operating Fixed Assets
CPPA-G	Central Power Purchasing Agency (Guarantee) Ltd.	PDEIP	Power Distribution Enhancement Investment Program
CTBCM	Competitive Trading Bilateral Contracts Market	PIB	Pakistan Investment Bond
CTC	Capacity Transfer Charge	PKR	Pakistani Rupee
DISCO	Distribution Company	PPP	Power Purchase Price
DM	Distribution Margin	PYA	Prior-Year Adjustments
DOP	Distribution of Power	R&M	Repairs and Maintenance
ELR	Energy Loss Reduction	RAB	Regulatory Asset Base
EPP	Energy Purchase Price	ROE	Return on Equity
ERP	Enterprise Resource Planning	RORB	Return on Rate Base
ETC	Energy Transfer Charge	SAP	Systems, Applications and Products
FESCO	Faisalabad Electric Supply Company Limited	SECP	Securities and Exchange Commission of Pakistan
GoP	Government of Pakistan	STG	Secondary Transmission and Grid Stations
GWh	Giga Watt per Hour	T&D	Transmission and Distribution
IAS	International Accounting Standards	TPM	Transfer Price Mechanism
DIIP	Distribution Company Integrated Investment Plan	UoSC	Use of System Charge
MoF	Market Operator Fee	WACC	Weighted Average Cost of Capital
KIBOR	Karachi Interbank Offered Rate	WAPDA	Water and Power Development Authority

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### 1. PETITION SUMMARY

#### 1.1. Details of the Petitioner

#### 1.1.1 Name and Address:

Multan Electric Power Company ("MEPCO" or the "Company") is a Public company limited by shares incorporated under section 32 of the repealed Companies ordinance, 1984, (Now Companies Act, 2017) with registered office at 414, WAPDA House, Lahore.

#### 1.1.2 License Details:

MEPCO is a licensed public utility responsible for distribution & Supply of electricity to the consumers. MEPCO holds Distribution license No. 06/DL/2002, issued by NEPRA (The Regulator). Under clause 23E (1) of NEPRA Act, 1997 (Amended Act of 2018), MEPCO is deemed to hold a license for supply of electric power for a period of 5 years after NEPRA amended act. MEPCO, in accordance with the requirements of its license, hereby submits its petition to determine the consumer end tariff for FY 2020-21 to FY 2024-25 in its licensed area under multiyear tariff regime for Distribution of Electric Power.

#### 1.1.3 Key Representatives:

The petition is being filed through Engr. Ikram-ul-Haq, the Chief Executive Officer of the Company who has been duly authorized by Board of Directors vide Resolution (see Annexure I) to sign and file the Multi Year Tariff ("MYT") Petition for the FY 2020-21 to FY 2024-25 ("Tariff Period"). MEPCO is represented by the following duly authorized officers:

- 1. Chief Executive Officer, MEPCO
- 2. Finance Director, MEPCO
- 3. GM (Customer Services), MEPCO
- 4. Chief Engineers, P&E
- 5. Chief Strategic Planner
- 6. DG, HR&Admn.

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#### 1.1.4 Grounds for Petition:

1.1.4.1 Under section 7(2)(ac), (b), (i) & section 7(3)(a) of the "Regulation of Generation, Transmission & Distribution of Electric Power Act, 1997 (Amended Act 2018), (hereinafter called as 'NEPRA Act'), the regulator (National Electric Power Regulatory Authority or NEPRA) is empowered to determine tariffs and other terms and conditions for the supply of electricity by the generation, transmission and distribution companies and also to recommend the same to the Federal Government for notification. NEPRA is also responsible for determining the process and procedures for reviewing tariffs and recommending periodical tariff adjustments. NEPRA shall determine the tariff of the licensee on the guidelines given at section 31(3) of the NEPRA act.

1. 2. 2. 2

- 1.1.4.2 Under section 31 (2), The Authority, in the determination, modification or revision of rates, charges & terms & conditions for the provision of electric power services shall keep in view,
  - i) The protection of consumers against monopolistic and oligopolistic prices,
  - ii) The research, development and capital investment program costs of licensees,
  - iii) The encouragement of efficiency in licenses, operations and quality of service,
  - iv) The encouragement of economic efficiency in the electric power industry,
  - v) The economic and social policy objectives of the Federal Government and
  - vi) The elimination of exploitation and minimization of economic distortions.
- 1.1.4.3 There are three main sources of funding available with the petitioner;
  - i) Adequate revenue through tariff determined by NEPRA,
  - ii) Borrowings and
  - iii) Internal efficiency improvements, if any, which result into either increase in revenue or cost reduction.

- 1.1.4.4 For this purpose, MEPCO has to file Tariff Petitions, review motions and adjustment requests as per procedures laid down by NEPRA. Timely determination and notification of the tariff ensures internal financial viability of the utility which is the basis to embark upon and explore other resources of funds and can only be ensured through adequate consumer end tariff which could recover all prudently incurred costs and provide reasonable return on investment to support its future investment for improvement in internal efficiency and expansion of network.
- 1.1.4.5 In accordance with the requirements of the license, MEPCO is hereby submitting a petition which sets out a methodology for setting and reviewing tariffs.
- 1.1.4.6 The petition is being filed in accordance with Rule 3(1) (2) of "NEPRA (Tariff Standard and Procedure) Rules, 1998 (hereinafter called as 'Tariff Rules')", NEPRA guidelines for determination of consumer end tariff issued vide SRO 34 (1)/2015, dated 16th January, 2015 and direction to file a multiyear Tariff Petition for the determination of consumer end tariff of next 5 years imparted through para 44.1 (i) of previous determination of distribution tariff of MEPCO for FY 2018-19 & FY 2019-20 vide# NEPRA/R/ADG(Trf)/TRF-492/MEPCO-2019/46481-46483 dated December 24, 2020 & NEPRA Letter No. NEPRA/ADG(Trf) /TRF-100/ XWDISCOs /18743-50 dated 05/04/2021.

#### 1.2. Key Aims and Features of the Petition

#### 1.2.1 Key aims of the petition

1.2.1.1 The aim of this petition is to submit the Company's MYT petition for the FY 2020-21 to FY 2024-25 and to obtain requisite approvals for the immediate implementation of cost reflective tariffs to yield the Company's required revenues.

#### 1.2.1.2 The key objectives of tariff petition include:

- Instant recovery of all costs to protect the interest of existing & future consumers.
- To provide an effective framework for optimization of installation and investment in the Company's distribution network.
- To provide protection to the Company against uncontrollable risks.
- To provide financial sustainability to the Company for the ultimate benefit of end consumers.
- To recover costs on account of Prior Year Adjustments.
- To provide a structure for the determination of tariff to meet the Revenue Requirements explained hereinafter.

#### 1.2.2 Assumptions for Segregation of Costs into Distribution & Supply of Electric Power Businesses:

Pursuant to NEPRA Act (Amended upto 2018) and the Authority directions, MEPCO is filing separate Tariff Petitions for Power Distribution Tariff and Power Supply Tariff. Since MEPCO is not maintaining separate books of accounts for the two businesses i.e. Distribution business & Power Supply Business, therefore it is assumed that;

- i) The accounting information of historic actual results relate to both businesses.
- ii) Segregation of data for Distribution of Electric Power Business is not made in books of accounts so far and single set of books of accounts are being kept for recording information pertaining to both businesses.
- iii) The forecasted expenses relating to Distribution of Electric Power Business have been assessed on the basis of available data in separate A/c heads (where possible) in combination with the possible bifurcation of the costs between the two businesses.
- iv) The expenses relating to Revenue offices, Meter Reading Services, Bill Distribution Services, Collection charges, Commercial Department, MIS (Management Information System) and Market implementation and Regulatory affair department (MIRAD) belong to Power supply tariff. The creation of MIRAD has been recommended by the Ministry of Energy (MoE) and adopted by MEPCO to implement Competitive Trading Bilateral Contract Market (CTBCM) model duly approved/ determined by the Authority. MIRAD will deal with all matters and other regulatory affairs regarding CTBCM.
- v) All existing Fixed Assets go to Distribution Business.
- vi) CPPA-G issues Power Purchase Invoices directly to the Power Supply Business which is responsible for all the payments related to Power Purchase Cost.
- vii) Power Supply business will make payment of Revenue Requirement of the Distribution Business at the rate determined by the Regulator (NEPRA), the same rate will be charged for wheeling of energy by other generator, Bulk Power Consumers (BPCs) etc.
- viii) The recovery of outstanding balances of NTDCL, CPPA-G and the payments to NTDCL, CPPA-G and the Distribution tariff is the responsibility of the Power Supply Business.
- ix) Bad debts and provisions against bad debts relate to Power Supply Business.

- x) The costs occurring against standby arrangements of Supply business are a sunk cost for MEPCO which do not depend upon the quantum of the business.
- xi) MEPCO is a "Supplier of the last resort" or "Default Supplier" which means that MEPCO is to keep and maintain Power Supply Business setup to act as Power Supplier in any untoward situation.
- xii) The provision for employee's Post retirement benefits has been apportioned in the ratio of Salary, wages & Benefits assigned to the respective businesses since FY 2018-19 onwards.
- xiii) All equity, previous accumulated losses and Prior Year Adjustments (PYA) upto FY 2017-18 relates to Distribution tariff.
- xiv) All arrears of recovery from consumers for the previous periods belong to Distribution tariff but Power Supply Business is responsible for its recovery.
- xv) All previous long term loans and debt servicing is the responsibility of the Power Distribution Business.
- xvi) The Regulator has not provided any guidelines regarding the Power Supplier's Margin (PSM), therefore, it has been assumed as 1.5% of the Power Purchase Cost of Power Supply Business.
- xvii) All Transmission and Distribution (T&D)Losses relate to Distribution of Electric Power Business, however, MEPCO has some reservations on the issue especially losses due to pilferage of electricity after the Distribution of Electric Power Business which may lead the Business to certain exposures/risks.
- xviii) The claims and subsequent receipts of all types of Subsidies including Tariff Differential Subsidy (TDS), Industrial Support Package (ISP), Zero Rated Industrial Rebate (ZRIR) etc. is the responsibility of the Power Supply Business.
- xix) The receivable from associated companies on different accounts (e.g. free supply etc.) will be dealt by the Power Supply Business.
- xx) The whole wire business from 132 kV to the consumer Meter is owned and maintained by the Distribution of Electric Power Business. Therefore any investment for expansion, rehabilitation etc. of the system is also come in the purview of the said business.
- xxi) The Late Payment Surcharges form consumers and Supplemental Charges on account of delayed/Late payments to Power generators relate to Power Supply Business and these two will knock off each other as per decision /directions of NEPRA.
- xxii) Any other issue not mentioned above shall be dealt by that time in the order of their relevance and merit for both businesses.

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#### 1.2.3 Summary of key parameters:

1.2.3.1 The petition includes the following key parameters:

MEPCO MYT For FY 2020-21 to 2024-25

	No.	Feature	Details
	1	Tariff Period	Five year multi-year tariff for the period FY2020-21 to FY 2024-25
	2	Distribution Margin	The existing Distribution Margin (DM) has been modified to consider impact of internal and external factors, including inflationary impacts, increase in regulatory asset base, expansion of network, increase in salaries, retirement benefits, repair & maintenance and depreciation etc.
	3	Bifurcation of O&M Cost	Distinction has been made between controllable and un- controllable costs, as detailed herein, with un-controllable costs directly passed through and controllable costs to be indexed with CPI.
•.	4	Indexation of O&M and Efficiency Factor	The controllable O&M cost is being proposed to be indexed to Consumer Price Index (CPI) during the tariff period. Further, the efficiency factor "X" is being proposed as zero '0' for the Tariff Control Period on the premise that implementation of CTBCM will further affect the cost effectiveness of the Company when most of the industrial and bulk power consumers will leaving MEPCO and the Company only serving to the domestic consumers.
	5	Extra Ordinary Events	Given the Company's wide business area and spreading net work linked with its vulnerability to the damages caused to its electric infrastructure in the past and expected in future as well by natural disasters like flooding & storms, a provision for such extraordinary events is being proposed as a "Z" factor, which will be included in the O&M cost indexation formula. All such costs will be classified as force majeure and shall be recoverable during the following year, subject to prior approval of NEPRA. Costs recoverable under insurance
			year after the impact of extra ordinary events taken and vice versa.
	6	Allowance for Additional Hiring	Given the Company's current human resources constraints and future requirements, a total of 6,566 personnel of BPS-1 to BPS-20 are being proposed to be added to the workforce under different cadres during the 05 years of the tariff control period. The induction is being proposed against MEPCO's existing approved yard stick i.e. replacement hiring.
	7	Creation of New Divisions/ Sub-Divisions	MEPCO has to create a new department "Market Implementation and Regulatory Affair Department (MIRAD)" to work under framework of Competitive Trading Bilateral Contract Market (CTBCM). Initially BoD MEPCO has approved 20 new key positions in phase-I which includes 09 positions through relocation/ internal transfer from existing yardstick & 11 new positions to be hired from the market. In phase-I, an estimated capital expenditure of Rs. 54.330 Million and O&M

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MEPCO MYT For FY 2020-21 to 2024-25

expenses of Rs. 48.519 Million per annum has been projected. However, in 2nd phase 55 remaining posts (allied Staff) with an estimated annual financial impact of Rs. 39.124 Million will be hired for smooth running of MIRAD.

Further, it is proposed to create 01 new each Operation circle, RRE/Construction Division, M&T circle, Regional Store, Construction Sub-Division, MIRAD and 05 new Operation Divisions, 36 Operation new Sub Divisions and - 08 new/upgraded Grid Station offices.

For the above purpose creation and induction of 3,243 new posts have been proposed with an annual additional financial impact of Rs. 1,813 (Million) starting from the year of induction accordingly.

Repairs & Maintenance Costs With a view to allow the Company greater autonomy over its operations relating to network management, repair & maintenance costs has been assumed via "K" factor @ 1.5% of gross Value of Building and Distribution Plant Equipment, which is consistent with the actual requirements due to vast & old distribution system.

 Return on Rate Base
 It is proposed that the Company receives the Weighted Average Cost of Capital (WACC) on its Average Regulatory Assets Base (RAB) as the Return on Rate Base (RoRB).
 Capital Structure
 Capital NEPRA's MYT Guidelines 2015.

StructureNEPRA's MYI Guidelines 2015.11Return on<br/>Equity (ROE)The ROE calculated on the basis of the Capital Asset Pricing<br/>Model (CAPM).

Risk Free RateThe Risk Free Rate has been assumed as 8.3542% i.e. weighted<br/>average yield on 05 year Pakistan Investment Bond (PIB) as of<br/>June 25, 2020.

BetaBeta computations are proposed to be based on the average<br/>beta @ 1.1 as used by NEPRA in previous determinations.

14Cost of DebtThe cost of debt represents the actual cost to be incurred by<br/>the Company on debt financing.

15 Regulatory The Regulatory Asset Base (RAB) is based on a two year average of net operating fixed assets (OFA) of the Company.

Prior-year adjustments comprise of unrecovered power purchase cost (which includes PPP periodic adjustments), less determined staff retirement benefits, RORB and other petty adjustments as described in the relevant portion of this Tariff Petition.

Annual Adjustments in 17 Return on Rate Base Computation

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加速時間の MEPCO MYT For FY 2020-21 to 2024-25

the risk free rate used for computing return on equity under the Capital Asset Pricing Model (CAPM) variations in cost of debt

Given the increased Staff Retirement Benefits Obligations of the Company coupled with financial constraints following proposals are given to make the Company's already created Post Retirement Benefit Fund a fully funded entity:

Retirement Benefit Payments

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- Allow past years actual provisions charged on the basis of third party actuarial Reports in line with provisions of IAS-19 being requested as Prior Year Adjustment (PYA).
- For the Tariff Control Period, allow the projected provisions of staff retirement benefits subject to adjustment on actual basis.

 Rehabilitation/ replacement is required on those equipment/material at various grid stations and transmission lines which have completed their useful life, have become deteriorated due to excess wear and tear with passage of time or have become outdated and their spares are not available in local market. Due to these reasons, they cause frequent faults and loss of energy in the shape of leakages etc. Resultantly, many breakdowns occur due to which not only public is suffered but MEPCO also sustain heavy financial loss.

2) The objective of the Distribution Rehabilitation Project is to reduce system technical losses resulting from power losses in the distribution conductors and equipment including losses due to additional current flowing in the system on account of poor power factor of customer loads.

Network Expansion

Network

Rehabilitation

1) Proposed expansion of Distribution network will facilitate in providing on average 475,446 No. of new electricity connections annually to the prospective customers.

#### 1.2.4 Structure of the petition:

- 1.2.4.1 This Petition has been structured in the following manner:
  - i) The tariff methodology is explained along with key features and formulae to be used in determining the Company's pass-through costs, T&D losses and average distribution margin within each year of the proposed tariff period.

- ii) The tariff structure and components are then analyzed in detail along with supporting facts and basis.
- iii) An overview of key periodic adjustments.

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 iv) Finally, key conclusions and summary of key recommendations are provided.

MEPCO MYT For FY 2020-21 to FY 2024-25

### 2. TARIFF METHODOLOGY

#### 2.1. Proposed Tariff Methodology

#### 2.1.1 NEPRA Guidelines

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NEPRA Guidelines for determination of consumer end tariff (Methodology and process) issued vide SRO # 34 (1)/2015, dated 16th January, 2015, lay down the methodology & process for Determination / approval of consumer end tariff. The guidelines also provide for a multi-year tariff of a distribution company. Among XWDISCOs, currently, IESCO, LESCO & FESCO are operating under the multi-year tariff regime.

#### 2.1.2 Change from Single Year Tariff (SYT) to Multi Year Tariff (MYT)

In accordance with the direction given in the Tariff determination of MEPCO for the FY 2018-19 and 2019-20 dated 24th December, 2020, NEPRA Letter No. NEPRA /ADG(Trf)/TRF-100/XWDISCOs/8743-50 dated 05/04/2021 and provisions given in the above NEPRA guidelines, the Company is being filed a five-year tariff with indexation mechanism for every year and rebasing at the end of the five-year control period.

#### 2.1.3 A Consumer Price Index (CPI) minus Efficiency Factor (X) Mechanism

According to the MYT guidelines a CPI minus X Multi-Year Tariff is being proposed as it will allow the Company to automatically apply indexations for inflation.

#### 2.1.4 The Multi Year Tariff

The Multi Year Tariff seeks to compute yearly revenue requirements of the Company based on a five-year investment plan and expected demand for electricity going forward. The tariff broadly comprises:

#### 2.1.4.1 Pass-through costs:

Power Purchase Price (PPP) comprises Energy charges, Capacity charges, Use of System Charge (UoSC) and Market Operator Fee (MoF) of CPPA-G including impact of allowed T&D losses.

#### 2.1.4.2 Distribution Margin (DM) &

#### 2.1.4.3 Prior Year Adjustments (PYA).

#### 2.2. Pass-through components of the tariff

#### 2.2.1 **Pass-through costs:**

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Power Purchase Price (PPP) comprises Energy charges, Capacity charges, Use of System Charge (UoSC) and Market operator fee (MoF) of CPPA, including impact of T&D losses

#### 2.2.2 **Power purchase price**

2.2.2.1 The Company is paying to CPPA-G (or on behalf of CPPA-G) Power Purchase Price (PPP) for the electricity it procures, including a transmission charge for transporting electricity across the transmission network owned and operated by NTDCL along with the Market Operator Fee (MoF) of CPPA-G. The total cost of power comprises generation and transmission cost elements. The generation price consists of a Capacity Purchase Price (CPP) and Energy Purchase Price (EPP) and variable O&M. The CPP is being paid on the basis of the Company's share of monthly demand and EPP is computed on the basis of average energy purchase price of IPPs, Hydel, GENCOs and other sources of generation. The UOSC is being charged according to NTDCL tariff determined by NEPRA.

2.2.2.2 This PPP is transferred to MEPCO according to the Transfer Price Mechanism (TPM) subject to adjustments and passed on to the end consumers.

#### 2.2.2.3 The PPP is calculated as per the following formula:

$$PPP = PP(EC) * Q(p) + PP(CC) + TC$$

Where,

PPP	= Power Purchase Price
PP(EC)	= Energy charge part of PPP
Q (p)	= quantity purchased by the company
PP(CC)	= Capacity charge part of PPP
TC	= Transmission cost

2.2.2.4 The formula for the determination of the distribution margin is:

$$DM(D) = RB(D) * RORB(D) + D(D) + E(D) + t(D) + ORC(D)$$

Where,

DM(D) is the MEPCO Distribution Margin (DM).

RB(D) is the MEPCO Rate Base

RORB(D) is the MEPCO cost of capital.

D(D) is the MEPCO depreciation expenses

E(D) is the MEPCO's expenses including but not limited to operation, maintenance and human resources.

t(D) is the MEPCO's Federal and Provincial Taxes (allowed as pass through)

ORC(D) is MEPCO's other regulatory costs including Other Income.

PP(EC) is the Energy charge part of PPP

2.2.2.5 The formula for the determination of the revenue requirement for the distribution company is:

 $RR(D) = PPP(D) + DM(D) \pm PYA(D)$ 

#### Where,

RR(D) is the company's Revenue Requirement.

PPP(D) is the power purchase cost of the Company.

DM(D) is the Distribution Margin of the Company.

PYA(D) is the Prior Year Adjustment (PYA) of the Company.

#### 2.3. Distribution Margin

This Petition proposes an incentive-based formula to determine the Company's Distribution Margin. A formula provides a transparent and predictable way to determine the Company's revenues, and end-user tariffs. Distribution Margin seeks to enable the utility to cover prudently incurred operating costs.

#### 2.3.1 Operations and Maintenance Costs

2.3.1.1 It is submitted that the O&M cost be bifurcated into controllable and uncontrollable costs. The uncontrollable costs are requested to be trued-up at the end of every year and the controllable costs should be indexed every year to the following factor (CPI – X + Z).

#### $0\&M_t = [Controllable cost/unit \times \{1 + (CPI - X)\} \times units sold] + Uncontrollable costs + Z$

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Where,

CPI = Consumer Price Index

X = Efficiency factor

Z = Costs relating to extraordinary events



#### 2.3.2 Return on Rate Base

- 2.3.2.1 According to Para 16(2) of the NEPRA Guidelines for determination of consumer end tariff (Methodology and process) issued vide SRO # 34 (1)/2015, dated 16th January, 2015, tariff should allow the licensee, a rate of return, which promotes continued reasonable investment in equipment and facilities for improved and efficient service.
- 2.3.2.2 It is important that returns provided to the Company commensurate with the risks associated with the sector. The rate of return should provide for a return which is proportionate with the prevailing cost of funds being incurred by the Company and with the risk involved in delivering the utility services.
- 2.3.2.3 The return on rate base to the Company is based on a Weighted Average Cost of Capital (WACC) to its regulatory asset base. The WACC is in turn based on return on equity and cost of debt weighted proportionately according to the debt and equity on the DISCO's balance sheet or the ceiling of 70:30 fixed by NEPRA. For the purpose of this tariff petition the bench mark of 70:30 has been used.

#### $RORB = Rate base \times WACC$

Where,

Rate base = Average net fixed assets + Closing work-in-progress - Deferred credit

The WACC is calculated as per the following formula:

WACC = 
$$K_e \times \left(\frac{E}{E+D}\right) + K_d \times \left(\frac{D}{E+D}\right)$$

Where,

Ke = Return on equity

Kd = Cost of debt

E = Total equity

D = Interest-bearing debt

As per NEPRA guidelines, the proportion of equity is capped at 30% and in cases where equity exceeds this threshold the remainder is considered as debt for the purposes of WACC computations. The return on equity is calculated with the use of the following CAPM formula:

 $K_e = R_f + (beta \times risk premium)$ 

Where,

#### MEPCO MYT For FY 2020-21 to FY 2024-25

Ke is Return on equity

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Rf is Risk-free rate

Beta is correlation to the market return

Risk premium is return expected on equity investments over and above the risk free rate:

# 3. TARIFF ANALYSIS

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## 3.1. Revenue Requirement

3.1.1 The table on the following page details the projected components of the Company's tariff for the tariff Control period.

Table 3.1: Revenue Requirement for tariff control period for MEPCO (PKR Million)					
	FY21	FY22	FY23	FY24	FY25
Salaries Wages & Benefits	8,823	11,278	13,236	15,253	17,525
Retirement Benefits	7,252	7,977	8,775	9,652	10,618
Employee Cost	16,075	19,256	22,011	24,906	28,143
Repair & Maintenance	2,551	2,859	3,201	3,552	3,910
Travelling	839	972	1,093	1,211	1,344
Transportation	507	594	697	826	1,001
Management Fee	149	160	170	181	193
Other Expenses	1,197	1,341	1,479	1,638	1,809
PM Assistance Package	605	586	569	552	535
O&M Expenses	21,922	25,767	29,220	32,865	36,935
Depreciation	5,695	6,388	7,155	7,945	8,749
Return on Rate Base	7,196	8,305	9,748	11,130	12,404
Power Supply Margin	-	<del>.</del> .	-		-
Other Income Excl. LPS	(5,248)	(5,438)	(5,877)	(6,310)	(6,743)
Supplemental Charges	-	÷.	. –	-	-
Cost of Working Capital	_	-	· · · ·		-
DISTRIBUTION MARGIN	29,564	35,021	40,246	45,629	51,345
Prior Year Adjustments (PYA)	58,338				-
TOTAL REVENUE REQUIRMENT	87,903	35,021	40,246	45,629	51,345
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The Average Tariff for Tariff Control Period is assessed as under:

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Table 3.1 (a): Average Tariff for fariff control period of MEPCO PKR/KWh										
	FY21	FY22	FY23	FY24	FY25					
Total Units Received (GWh)	19,695	20,697	21,110	21,533	21,964					
Total Units Export (GWh)	16,741	17,644	18,028	18,411	18,801					
T&D Losses (%)	15.00%	14.75%	14.60%	14.50%	14.40%					
O&M costs	1.31	1.46	1.62	1.79	1.96					
Depreciation	0.34	0.36	0.40	0.43	0.47					
Return on Rate Base	0.43	0.47	0.54	0.60	0.66					
Other Income	(0.31)	(0.31)	(0.33)	(0.34)	(0.36)					
Working Capital		· · · · -		-	-					
Distribution Margin	1.77	1.98	2.23	2.48	2.73					
		· · · · · · · · · · · · · · · · · · ·	·							
Revenue Requirement	1.77	1.98	2.23	2.48	2.73					
Prior year/PPP adjustments	3.48	·		. <b>.</b>	-					
Total Revenue Requirement	5.25	1.98	2.23	2.48	2.73					

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## 3.2. Summary of Tariff Assumptions

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- 3.2.1 Pay & Allowances and Retirement Benefits: The M&O Cost has been segregated into controllable and non-controllable components. The noncontrollable portion is the Salaries & Wages to the employees and Staff Retirement Benefits. As MEPCO is following the National Pay Scales and Staff Retirement benefits of the Federal Government presently and assumed the same for the Tariff Control Period as well, therefore any increase in Pay & Allowances of employees and pension shall automatically be passed through to the beneficiaries. Costs other than Pay & Allowances and Retirement benefits shall be indexed with CPI every year plus cost associated with the Z factor to be added as passed through, if any.
- 3.2.2 Provision for Staff Retirement Benefits: It is assumed that MEPCO will be allowing the gross provisions for the staff retirement benefits as per third party actuarial Reports in Tariff enabling the Company to transfer net amount after payment of actual liabilities of the retired pensioners into the Post Retirement Benefits Fund already established.
- 3.2.3 Inflation: The CPI to be used in indexing the tariff yearly shall be the one notified by the Pakistan Bureau of Statistics as of June, every year. For the purposes of this tariff petition, forecasted inflation rates @ 8.84%, 7.28%, 6.52%, 6.53%, 6.49% have been applied over the tariff control period which have been taken from the Global No. 1 Business Data Platform website "statista.com".
- 3.2.4 **Total Unit Sales:** Total unit sales start at 16,741 GWh and are increased by the annual demand growth, determined by the number of new consumers and the change in consumption per consumer. The Compounded Average Growth Rate (CAGR) in sales for 2020-21 to 2024-25 is about 2.95%.
- 3.2.5 **Target T&D Losses:** The T&D losses target has been set at 15.00% for the first year which gradually reduces to 14.40% by the end of the tariff control period.
- 3.2.6 **Power Purchase Price (PPP):** Total purchase starts at 19,695 GWh which is assumed to grow at a CAGR of 2.30% and reaches 21.964 GWh by FY 25. The PPP for the five year control period has been taken as projected by CPPA-G and intimated vide Letter No. CPPA-G/ 2021/ CFO/ 6161-62 dated 22/ 03/ 2021. The purchase cost is calculated as the number of units of energy purchased times the PPP rate.
- **3.2.7 O&M:** The base year O&M is set at PKR 1.30/kWh for the first year of the tariff that is subject to adjustment with actual results.

※ ※ MEPCO MYT For FY 2020-21 to FY 2024-25

- 3.2.8 Opening Gross Fixed Assets: The value of the Opening GFA used in the base year of the tariff period that been determined on the basis of the latest available financial statements of the Company as of 30th June 2020.
- 3.2.9 **Regulatory Asset Base:** It is calculated as the sum of Opening GFA and capital additions less depreciation, plus capital work-in-progress and less deferred credit.
- 3.2.10 **Rate of Return:** The rate of return or WACC of 11.72% has been calculated based on CAPM, 3 month's KIBOR+3% and a Debt--Equity Ratio of 70:30.
- 3.2.11 **Distribution Margin:** The Distribution Margin of the Company is calculated as the sum of O&M, Depreciation and RORB adjusted with other income excluding Late Payment Surcharge being knocked off with delayed payment Charges/Supplemental Charges in line with NEPRA existing determinations.
- 3.2.12 Other Income: The other Income will be adjusted as per mechanism prescribed in the NEPRA Tariff Guidelines for determination of consumer end tariff.

## 3.3. Analysis of key components

3.3.1 **Power Purchase Price (PPP)** 

- 3.3.1.1 PPP relates to Power Supply Business, However, the Fuel Cost Component (FCC), Capacity Transfer Charges (CTC) and Use of System Charges (UoSC) including Market Operator Fee (MoF) for 2020-21 to 2024-25 have been taken as projected by the Market Operator i.e. CPPA-G for the period from 2020-21 to 2024-25 intimated vide Letter No. CPPA-G/ 2021/ CFO/ 6161-62 dated 22/ 03/ 2021.
- 3.3.1.2 The component wise detail is given below:

Table 3.2: Power Purchase Price (PPP) Break-up (Rs. In Millions)										
	FY 21	FY 22	FY 23	FY 24	FY 25					
Energy Transfer Charge	93,917	86,461	79,819	94,155	97,110					
Capacity Transfer Charge	138,528	196,567	238,951	240,845	268,934					
NTDC Use of System Charge	8,407	15,871	17,723	16,911	17,039					
Market Operator Fee	71	74	78	82	86					
Power Purchase Price	240,923	298,973	336,572	351,993	383,169					

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#### 3.3.2 Transmission & Distribution (T&D) Losses

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- 3.3.2.1 To achieve the reduction in target T&D losses, MEPCO has prepared a Distribution Company Integrated Investment Plan (DIIP), which includes formation of new grids, conversion of existing grids, revamping of secondary transmission (66, 132 KV) lines, augmentation of HT & LT lines, provision of T&P items, induction of low loss transformers, theft detection by enforcement agencies and replacement of meters, with static meters and upgrade to Automated Meter Reading (AMR) and Aavanced Metering Infrastructure (AMI).
- 3.3.2.2 Based on NEPRA's stated mechanism, the compensation for distribution losses would be automatically adjusted for any changes in the power purchase cost. The target of T&D losses, will, however, be maintained throughout the tariff period, regardless of the actual T&D losses incurred by the Company. Thus, if the Company was not able to meet the target loss reduction, it would be penalized by not being able to recover the cost of losses in excess of the target amount.
- 3.3.2.3 NEPRA has to determine the difference between the units procured and units sold that includes the Technical as well as Administrative Losses. In the determination for FY 2019-20, NEPRA determined a T&D Loss target of 14.90% against the actual losses of 15.24% of the Company. The Company filed a Review Petition against the determination of NEPRA. Hearing in the case was held on 2nd March, 2021 but the decision is awaited so far. The proposed losses were disallowed on the premise that investment will reduce 0.89% losses in FY 2019-20 as compare to the allowed losses of 15.79% for FY 2018-19. However, MEPCO achieved T&D losses @ 15.24% during FY 2019-20.
- 3.3.2.4 A review of the historical T&D loss trend indicates that MEPCO has successfully maintained its T&D losses despite notable impacts of load growth, addition in the distribution network and number of consumers. The detail is as under:

Table 3.3: Historical analysis of T&D losses						
Fiscal Year	T&D losses					
2013-14	17.48%					
2014-15	16.78%					
2015-16	16.45%					
2016-17	16.91%					
2017-18	16.59%					
2018-19	15.79%					
2019-20	15.24%					

3.3.2.5 The proposed Transmission and Distribution Losses for 2020-21 to 2024-25 are given below:

Table 3.4: T&D Losses break-up MEPCO									
	FY 21	FY 22	FY 23	FY 24	FY 25				
Transmission Losses 132 kV	1.37%	1.40%	1.34%	1.30%	1.30%				
11 kV+Transformer+Cable Metering+LT Loss	13.63%	13.35%	13.25%	13.20%	13.10%				
Total Technical Losses	15.00%	14.75%	14.60%	14.50%	14.40%				
Admin. Losses	0.0%	0.0%	0.0%	0.0%	0.0%				
Total T&D losses	15.00%	14.75%	14.60%	14.50%	14.40%				

#### 3.3.3 Operating and Maintenance (O&M) Costs

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3.3.3.1 A summary of the forecasted O&M Expenses for 2020-21 to 2024-25 is as under:

Table 3.5: Operating and Maintenance Cost Breakup (Rs. in Millions)										
	FY 21	FY 22	FY 23	FY 24	FY 25					
Basic Pay and allowances	8,823	11,278	13,236	15,253	17,525					
Post Retirement Benefits	7,252	7,977	8.775	9,652	10,618					
Repair & Maintenance	2,551	2,859	3,201	3,552	3,910					
Travelling Expenses	839	972	1,093	1,211	1,344					
Transportation	507	594	697	826	1,001					
Supplemental Charges	-	-	-		-					
Other Operating Expenses	1,345	1,500	1,649	1,819	2,002					
PM Assistance Package	605	586	569	552	535					
Total	21,922	25,766	29,220	32,865	36,935					

Notes: Increase in Pay & Allowances is attributable to the annual increment, impact of promotions and up-gradations during the tariff control period.

#### 3.3.3.2 Plan for Replacement Hiring:

MEPCO has planned for induction of the following number of employees during tariff control period against existing yard stick.

Table 3.6: New induction against existing Yardstick.									
	FY 21	FY 22	FY 23	FY 24	FY 25				
No. of Employees	949	2,146	1,429	i,095	947				
Projected Annual Cost (Mil. Rs.)	310	882	592	478	438				
Proj.Cost-Wire Business (Mil. Rs.)	253	720	484	390	358				
Proj.Cost-Supply Business (Mil. Rs.)	57	162	108	88	80				

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3.3.3.3 The Company is a staff deficient by 20.46% and at present working at working strength of 16,066 No. of employees against the sanctioned strength of 19,780 in different cadres. Therefore, the company has planned for induction of above stated number of employees during the tariff control period.

3.3.3.4 The following manpower statistics as of February 2021 highlights the shortage of staff in the company:

Tabl	e 3.7: Man power	statistics (	As of Fe	ebruary :	2021)			
ç		Sanct'd	4	Actual W	orking Stre	ngth	-	
s. No	Description		Reg	Cont	Daily wages	Total	Deficiency	%age
Offic	ers (BPS-17 and a	above)						. *
a.	Technical	419	360	-	-	360	59	14.08
b.	Non- Technical	138	111	-	-	]]]	27	19.57
	Sub-Totai	557	471	-	-	471	86	15.44
Offic	ials (BPS-01 to 16	)						1
a.	Technical	11,474	9,139	193	205	9,537	1,937	16.88
b.	Non- Technical	7,169	5,076	98	98	5,272	1,897	26.46
c.	Clerical	580	436	15	3	454	126	21.72
	Sub-Total	19,223	14,651	306	306	15,263	3,960	20.60
To	tal Manpower	19,780	15,122	306	306	16,734	4,046	20.46

- 3.3.3.5 As evident from the tables above, the Company has been requesting NEPRA for allowing cost of hiring staff at positions where it is under-staffed. The deficiency in staff is clearly great importance at the officer level as per approved yardstick which stands at 15.44%. The deficiency and the associated financial impact have successively increased over the years, as the Company's consumer base is continually expanding. The consumer base of the company is expected to be increased at average rate of 6.1% or 0.450 Million consumers per year.
- 3.3.3.6 In order to meet the technical and operational targets, it is proposed that 949 vacancies are to be filled by the Company during FY2020-21. This recruitment will increase the base year O&M by PKR 310 Million. The projected cost of Rs. 253 Million & Rs. 57 Million assigned to the Wire Business & Power Supply Business respectively. In the same manner Rs. 882 Million, 592 Million, 478 Million & Rs. 438 Million have been projected for recruitment against vacant posts under existing yardstick of MEPCO during FY 2021-22, 2022-23, 2023-24 & 2024-25 respectively.
- 3.3.3.7 MEPCO's Plan for creation of new offices along with additional hiring for newly created offices: MEPCO has planned for induction of the following number of employees during tariff control period against human resource requirement of newly created offices.

FY 21	FY 22	FY 23	FY 24	FY 25
423	537	611	685	987
148	307	416	422	642
121	251	340	345	524
27	56	. 76	77	118
	<b>FY 21</b> 423 148 121 27	FY 21         FY 22           423         537           148         307           121         251           27         56	FY 21FY 22FY 23423537611148307416121251340275676	FY 21FY 22FY 23FY 2442353761168514830741642212125134034527567677

#### Table 3.8: New induction against creation of new offices

3.3.3.8 Basic pay, Allowances and Employee benefits: The pay & allowances for FY 2020-21 have been estimated to be Rs. 10,811 Million, out of which Rs. 8,823 Million & Rs. 1,978 Million have been projected for Wire Business & Power Supply Business respectively. Pay & allowances and employee benefits including retirement benefits constitute a major portion of the Company's O&M expenses.

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Table 3.9: Basic Pay, Allowance & Employee Benefits								
	FY 21	FY 22	FY 23	FY 24	FY 25			
Salaries, Wages & Benefits	10,801	13,806	16,202	18,672	21,453			
Proj.Cost-Wire Business (Mil. Rs.)	8,823	11,278	13,235	15,253	17,525			
Proj.Cost-Supply Business (Mil. Rs.)	1,978	2,528	2,967	3,419	3,928			

3.3.3.9 Staff Retirement Benefits: NEPRA in its determination for FY 2019-20 had allowed only the amount of actual payments made to pensioners rather than the total amount of provision against Post Retirement Benefits under IAS-19. MEPCO filed Motion for Leave to Review against the tariff determination for FY 2018-19 & FY 2019-20. In the said review motion, MEPCO requested to allow provisions for post retirement benefits amounting to Rs. 50,650 Million for FY 2015-16 to FY 2019-20 against Distribution tariff. It included RS. 21,303 Million in respect of less determined provisions for Post Retirement Benefits and Rs. 29,347 Million for the amount charged to Other comprehensive income in respect of Distribution of Electric Power Business. Hearing in the said Review Petition conducted on March 02, 2021 and the decision is awaited so far. The Company fully understands its legal obligation to record and pay these liabilities. Since the unbundling of WAPDA, the Company has been making timely payments to all its retired employees.

3.3.3.10 As per requirement of IAS-19 and the repealed Companies Ordinance 1984 (Now Companies Act, 2017) the Company recognizes the gross amount of retirement benefits including requisite provisions.

Table 3.10: Provision For Staff Refirer	neni bene	IIIS			
	FY 21	FY 22	FY 23	FY 24	FY 25
Provision for Retirement Benefits	8,877	9,765	10,742	11,816	12,998
Proj.Cost-Wire Business (Mil. Rs.)	7,252	7,977	8,775	9,652	10,618
Proj.Cost-Supply Business (Mil. Rs.)	1,625	1.788	1,967	2,163	2,380

Staff Retirement Benefit Obligation: The Company currently has pension obligations of PKR 80,583 Million and is unable to transfer this amount in a separate fund as the Company does not have sufficient cash; therefore, it is proposed that Provisions for retirement benefits may be allowed in actual in addition to the Prior Year Adjustment of less determined Provisions during FY 2015-16 to FY 2019-20.



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Keeping in view the above, the gross Post Retirement Benefits have been projected for 2020-21 on the basis of last actuarial Valuation Report with estimated average 10% increase for FY 2021-22 till FY 2024-25 as under:

Table 3.11 Post-Retirement Benefits Break-up (PKR Millions)										
	FY 20	FY 21	FY 22	FY 23	FY 24	FY 25				
Pension	10,075	6,935	7,629	8,391-	9,231	10,154				
Leave encashment	309	360	396	435	479	526				
Medical	1,236	1,114	1,226	1,349	1,483	1,632				
Free Supply (Retired)	612	468	515	567	623	686				
Total	12,233	8,877	9,765	10,742	11,816	12,997				
% Change		-27.0%	10.0%	10.0%	10.0%	10.0%				

NEPRA is requested to allow the above gross amount of retirement benefits in tariff for the tariff control period subject to adjustment on actual basis.

- 3.3.3.11 Other Operating Expenses: All other expenses are increased by CPI-X during the entire tariff control period except Repair & Maintenance which is based on "K" factor.
- 3.3.3.12 Adjustment Mechanism for O&M Costs: The efficiency factor "X" is being proposed as zero '0' for the Tariff Control Period on the premise that the implementation of CTBCM will further affect the cost effectiveness of the Company when most of the industrial and bulk power consumers will be leaving MEPCO and the Company will only be serving the low category domestic consumers.
- 3.3.3.13 Segregation between "Controllable" and "Uncontrollable" cost: The segregation is proposed between controllable and un-controllable costs. The employee related costs (Salaries & Wages and Retirement Costs) are treated as uncontrollable to be passed through on actual basis in the Tariff.
- 3.3.3.14 All other Costs are considered to be controllable and subject to adjustment with CPI only except Repair & Maintenance which is based on "K" factor.
- 3.3.3.15 The segregation of controllable and uncontrollable factors and their treatment in MYT is of vital importance. Non-segregation of these costs may force the Company to absorb some "uncontrollable costs" beyond its control, which are not fully recovered from its tariff resulting in financial losses to the Company.
- 3.3.3.16 In light of the above, it is submitted that any increase in uncontrollable costs be adjusted on an annual basis in the MYT tariff.

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#### 3.3.3.17 Z factor for force majeure events

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- 3.3.3.18 There shall be a provision for costs incurred as a result of force majeure events such as earthquakes, flooding, wind storms, thunder storms, acts of terrorism, etc. In the absence of a provision for such events and adjustments restricted strictly to the CPI-X factor, the Company will be unable to recoup the costs required to undertake the necessary repairs.
- 3.3.3.19 It is proposed that an additional Z factor should be included in the MYT to cover costs for such events. These costs shall be computed after the occurrence of such an event at which point the Company shall estimate the financial impact of such an event and request NEPRA's approval for inclusion in the subsequent year. As replacement of any equipment as result of such damage shall be covered through proposed investments to be approved by NEPRA, it is anticipated that major costs falling under Z factor will comprise repair & maintenance and incidental costs. In the event that insurance coverage is available at a reasonable cost, recoveries made under such an arrangement will not be incorporated in the tariff for the subsequent period.
- 3.3.3.20 **Repair & Maintenance:** In the Tariff determination, the Regulator allowed Rs. 1,384 Million against repair & maintenance for FY 2019-20 against actual expenditure of Rs. 1,729 Million although the company elaborated each item of Repair & Maintenance. It is reiterated that repair & maintenance cost shall enable the company to ensure smooth and efficient functioning of the transmission and distribution system in operation. Moreover, it shall contribute to the benefit of the consumers at large by reducing power outages, system breakdowns and better service quality in addition to contribution in reduction of the T&D Losses. Foregoing in view, NEPRA is requested to allow full amount of the repair & maintenance projected for tariff control period in this MYT. The repair and maintenance is mainly for standalone items necessary for keeping the system in operation with no additional benefits.

- 3.3.3.21 The adherence to service standards and improvement of customer services is only possible through continuous repair and maintenance of distribution network etc. Timely repair and maintenance is vital to continuous and reliable supply of electricity. Delays in scheduled repairs ultimately result in system breakdowns which in turn not only has an impact on the end-consumer, including adversely affecting industrial and agricultural production, but also damages the distribution network which then requires further investments. Furthermore, non undertaking of routine repairs results in accumulation of faults with the utility which requires significant investments, a few years down the line against an issue that could have been dealt earlier at a significantly lower cost. Repairs are thus an important aspect in controlling the increase in end-user tariff and necessary, if distribution loss targets are to be achieved.
- 3.3.3.22 Historically, variance between requested and allowed repair & maintenance costs has been over 20%. Such a situation, in view of the significant decrease in repair requirements of the Company's infrastructure shall have a drastic impact on the sustainability of the existing distribution system which will ultimately affect the well being of the consumers.
- 3.3.3.23 With a view to allow the Company greater autonomy over its operations relating to network management, repair & maintenance costs has been assumed as "K" factor @ 1.5% of gross Distribution Plant Equipment of gross fixed assets, which is consistent with the actual requirements due to vast & old distribution system.

#### 3.3.4 Return on Rate Base

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- 3.3.4.1 Return on equity is calculated using CAPM model and requires the estimation of following components:
  - i) Risk free rate (Rf)
  - ii) Beta (B)
  - iii) Market premium (P)
- 3.3.4.2 Risk free rate is the rate of return that the investors expect to earn on investments that have virtually no risk of default. Risk is viewed in terms of the variance in actual returns around the expected return. For an investment to be risk free in this environment, then, the actual returns should always be equal to the expected return.



- 3.3.4.3 In view of the business horizon of a electricity distribution business, the Company's contractual obligations and operational risks which extend beyond a single year, it is proposed that weighted average yield on 05 year Pakistan Investment Bond (PIB) as of June 25, 2020 be considered as the risk free rate. This rate would be adjusted on an annual basis as per State Bank of Pakistan publications.
- 3.3.4.4 NEPRA has allowed Return on Equity (Market Risk Premium & Risk Free Rate) as 15% in previous Tariff Determination; therefore, the same has been used for calculating RORB.
- 3.3.4.5 Currently, NEPRA uses a standard beta for calculating the return on equity for all DISCOs. The same beta has been used for computing return on equity in all previous three determinations.

#### 3.3.5 Cost of Debt

Cost of debt is taken as 3 Months KIBOR+3% of 2<sup>nd</sup> July, 2020. However, any taxes paid by the company will be passed on directly to the end-consumers.

#### 3.3.6 WACC

- 3.3.6.1 Based on the above input parameters, the Company's weighted average cost of capital computes to 11.72%.
- 3.3.6.2 Regulatory asset base for 2020-21 to 2024-25 is shown in required forms
- 3.3.6.3 The Regulatory Asset Base (RAB) is the gross fixed asset that is used in the distribution activities of the Company. The return on rate base is calculated by applying the WACC on the RAB.
- 3.3.6.4 As per MYT guidelines the RORB assessment will be made in accordance with the following formula/mechanism:

RORB(Rev) = RORB(Ref) \*RAB(Rev) / RAB(Ref)

Where:

RORB(Rev) = Revised Return on Rate Base for the Current Year

RORB(Ref)=Reference Return on Rate Base for the Reference Year

RAB(Rev) = Revised Rate Base for the Current Year

RAB(Ref) = Reference Rate Base for the Reference Year.

#### 3.3.7 Distribution Company Integrated Investment Plan (DIIP)

3.3.7.1 Pakistan's power sector is currently afflicted by a number of challenges that have led to a crisis, specially:

- i) Highly expensive electricity generation due to an increased dependence on expensive thermal fuel sources.
- ii) Liquidity constraint due to high cost & Low recovery.

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- iii) An inefficient power transmission and distribution system that currently records high percentage of losses due to poor infrastructure, mismanagement, and theft of electricity.
- 3.3.7.2 To achieve efficiency and ensure system reliability MEPCO has chalked out a 5 year Distribution Company Integrated Investment Plan (DIIP) for FY 2020-21 to FY 2024-25.
- 3.3.7.3 Further, in tariff determination for FY 2018-19 & 2019-20, NEPRA directed MEPCO to file 5 year integrated investment plan along with multiyear tariff petition for next 5 years i.e. FY 2020-21 to 2024-25.
- 3.3.7.4 The Distribution Plan of the Company, which is integrated with the 132 KV network studies, envisages expansion and rehabilitation of the Company network during the years 2020-21 to 2024-25. The Company intends to invest an amount of PKR 67,072 Million through MEPCO own sources and Rs. 47,054 million through consumer finance over the tariff control period keeping in view its system requirements under the projects i.e. Secondary Transmission and Grid Stations (STG), Distribution of Power (DOP), Energy Loss Reduction (ELR) and Power Distribution Enhancement Investment Program (PDEIP).

3.3.7.5 The details of investments proposed annually are detailed below:

#### MEPCO MYT For FY 2020-21 to FY 2024-25

Table 3.12: Investment plan breakup(PKR million)							
	2020-21	2021-22	2022-23	2023-24	2024-25	Total	
DOP	910	2,404	2,564	2,029	2,190	10,097	
ELR	2,130	3,647	3,853	4,684	4,938	19,252	
STG	3,600	4,372	4,106	4,453	4,529	21,060	
Vehicles	480	702	844	413	441	2,880	
ERP	80	35	10	45	50	220	
AMR	500	628	699	540	-	2,367	
Others	1,211	2,876	3,588	3,043	3,086	13,805	
Sub Total MEPCO							
Own Source	8,912	14,664	15,664	15,207	15,234	69,681	
Village							
Electrification/DW	3,228	3,452	3,769	2,760	2,828	16,037	
Capital Receipt	6,000	5,598	5,979	6,338	6,718	30,634	
Sub Total							
Consumer							
Finance	9,228	9,050	9,748	9,098	9,546	46,671	
Total Investment	18,140	23,714	25,412	24,305	24,780	116,351	

3.3.7.6 The above stated investment plan results in significant improvements in its T&D losses and enables the Company enhance its customer base by increasing connections. The plan is also intended to increase system reliability.

3.3.7.7 Proposed impact of investments on T&D reduction is detailed below. As is evident the Company would be able to decrease losses from 15.24% to 14.40% by a cumulative 0.60% over the tariff control period.

Table 3.13: T&D Loss Reduction						
	2020-21	2021-22	2022-23	2023-24	2024-25	Total
Projected T&D losses	15.00%	14.75%	14.60%	14.50%	14.40%	
Reduction in losses	0.24%	0.25%	0.15%	0.10%	0.10%	0.84%

3.3.7.8 Implementation of Technology Road Map (ERP/SAP) in MEPCO

The Company has already implemented following Modules of ERP/ SAP:

- Financial Information & Controlling (FICO)
- Material Management (MM)

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MEPCO MYT For FY 2020-21 to FY 2024-25

Human Capital Management (HCM)

MEPCO has proposed an amount of PKR 220 million for different Add-ons / New Projects under ERP during the tariff control period. A brief summary is given below:

Financial Year	Add-ons/ Module	PKR Millions
2020-21	SAP Pension System etc.	80
2021-22	SAP HCM Workflow	35
2022-23	SAP FICO Integration with oracle CIS	10
2023-24	SAP Plant Maintenance/ Project System	45
2024-25	SAP Dash Board	15
2024-25	SAP Upgrade	35
•	TOTAL	220

#### Table 3.14- SAP / ERP

#### Implementation of Centralized Pension Payment System:

Implementation of the whole Pension process to retired employees on SAP is underway as a part of FICO and HCM Modules already implemented in MEPCO. Activities included;

- Connecting the system with biometric machansim for authentication /varification of pensioners
- Centralized payment to all retired employees of MEPCO any where in the country
- Pensioners Master Data
- Pension Calculations for all types
- End user Training
- User Acceptance Testing

The Company will purchase the required user blocks with an approximate cost of Rs. 25 Million expecting by June 2021.

#### HCM Work Flows:

Different work flows pertaining to HCM Module are planned to be implemented. 52 No. Work Flows are identified for implementation at the existing HCM Module.



The activity is to be got done through outsourcing. For this purpose RFQ is under process with anlysis of the project.

It would be done during 2021-22 and the estimated cost of the project is 3.5 Millions.

#### FICO Integration:

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MEPCO is to configure the existing billing system (CIS) with SAP. The Project will be outsourced and it will help to get online data from billing system. The estimated cost is Rs.10 Million

#### Plant Maintenance:

SAP Plant Maintenance (SAP PM) application component provides an organization with a tool for all maintenance activities to be performed. Following activities are performed under Plant Maintenance –

- Inspection
- Preventive Maintenance
- Repair

Following are the key modules in which integration is performed with Plant Maintenance

- Material Management
- Controlling
- Project Systems

#### Project Systems:

Project System is one of the key modules of SAP to perform project and portfolio management. It helps to manage the project life cycle starting from structuring to planning, execution, until the project completion.

Following are the key steps involved in Project process flow –

- Create Templates/WBS
- Create Project
- Project Planning
- Budgeting and Release
- Project Implementation
- Project Completion
- The estimated Cost of Plant Maintenance and Project System Implementation will be Rs.45 Million.

#### Dash Board:

In order to get maximum Reports from SAP for managerial decision making the existing SAP System will be configured to activate the dash board in SAP. This project is to be out sourced and expected to be completed by 2022-2023. The approximate cost for the project would be Rs.15 Millions.

#### Upgradation of the Installed SAP ECC 6.7

Currently SAP ECC 6.7 is installed at MEPCO. SAP ECC6 series is an old version of ERP System. MEPCO will required an upgrade of SAP System and Data Centre Hardware to SAP HANA being the latest available release in the Market. That need complete configurations and implementation of entire system. The job of upgradation will be outsourced to an SAP Implementation Partner

operating in Pakistan.

The estimated project cost would be around 30 Millions by Fiscal Year 2024-25

#### 3.3.8 Depreciation

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3.3.8.1 Depreciation is charged on the straight-line method so as to diminish the cost of an asset over its estimated useful life. As per Company's policy, building and civil works are depreciated @ 2%, feeders and grids & equipment's @ 3.5%, other plant/equipment and vehicles @ 10%. The depreciation for FY 2020-21 to FY 2024-25 has been estimated on the original cost of the assets.

Table 3.15: Depreciation Expense				
	FY 21 FY 22	FY 23	FY 24	FY 25
Depreciation Expense	5,695 6,388	7,155	7,945	8,749

3.3.8.2 As per MYT guidelines, Depreciation expense for future years will be assessed in accordance with the following formula/mechanism:

DEP(Rev) = DEP(Ref) \* GFAIO(Rev) / GFAIO(Ref)

Where:

DEP(Rev) = Revised Depreciation Expense for the Current Year

DEP(Ref) = Reference Depreciation Expense for the Reference Year

GFAIO(Rev) = Revised Gross Fixed Assets in Operation for the Current Year

GFAIO(Ref) = Reference Gross Fixed Assets in Operation for the Reference Year



#### 3.3.9 Other income

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- 3.3.9.1 Other Income includes mark-up on bank deposits, amortization of deferred credit and income from other sources. As there is no clear trend found during the past, hence, other income have been assessed on the basis of last five year moving average except for the amortization of deferred credit which has been calculated @ 3.5% on the accumulated balance of contributions against connection installed/ deposit works i.e. consumer financed assets.
- 3.3.9.2 The Late Payment Surcharge has been excluded from the total Other Income as per decision of NEPRA in the Tariff determination of FY 2014-15 of MEPCO.
- 3.3.9.3 The detail of other income is as under:

	FY 21	FY 22	FY 23	FY 24	FY 25
Late payment surcharge	2,453	2,632	2,803	2,986	3,180
Profit on bank deposits	1,276	973	1,113	1,219	1,302
Meter / service rent	74	67		76	77
Reconnection fees	46	37	39	41	4]
Rental & Service income	80	75	83	83	83
Repair, testing and inspection fees	· · · ·	96	98	100	103
Credit balance written off	· 	54	55	56	58
Sale of Scrape	102	55	66	77	83
Miscellaneous	383	380	403	391	399
Otherincome	75	194	110	112	119
Amortization of deferred credit	3,212	3,507	3,838	4,155	4,478
Total Other income incl. LPS	7,701	<b>8,07</b> 0	8,680	9,296	9,923
Less: Late payment surcharge	.2,453	2,632	2,803	2,986	3,180
Other income Excl. LPS	5,248	5,438	5,877	6,310	6,743

3.3.10 **Prior Year's Adjustment (PYA)** 

- 3.3.10.1 Rule 53 of NEPRA Tariff Guidelines provides that under-recovery or overrecovery of the cost-of-service incurred during the previous year shall be accounted for going forward during the current year under the head of prior period adjustment
- 3.3.10.2 The Company's tariff for FY 2018-19 & 2019-20 was determined by NEPRA on 24<sup>th</sup> December, 2020 and notified by GoP w.e.f. 12<sup>th</sup> February, 2021. The prior year's adjustments pertaining to FY 2018-19, 2019-20 and any unrecovered/underrecovered cost prior to the said years are summarized below:

### Table 3.17- Prior Year Adjustment (PYA)

#### **PKR Million**

Description	Wire Business	Supply	TOTAL
Staff Retirement Benefit FY 2015-16 to 2019-20	50,651	2,227	52,878
Return on Rate Base (RORB)	5,400	-	5,400
PEPCO Management Fee	610	-	610
PM Assistance Package for families of Govt. employees who die in service	1,670	374	2,045
PPP Adjustments	-	14,106	14,106
TOTAL	58,332	16,707	75,039

#### 3.3.10.3 Provision for staff Retirement Benefits:

- i) MEPCO is a public limited company incorporated under the repealed companies ordinance, 1984 (Now Companies Act, 2017) and maintaining its Financial Statements under the SECP regulations and International Accounting Standards (IAS) adopted in Pakistan. Similarly Provisions for Post Retirement Benefits are recognized in line with the requirements of IAS-19 based on third party Actuarial Valuations/ Independent Actuaries. The Authority partially allowed Post Retirement Benefit up to the extent of actual payment of post retirement benefits despite the fact that in compliance of Authority directions in its decision vide Para 14.2.9 of MEPCO Tariff Determination for the FY 2011-12, the Company established a separate postretirement benefits Trust Fund and managed transfer of Rs. 2,854 Million till March 31, 2021 in the Bank Accounts of the Trust Fund out of the determined Distribution Margin included only the actual payments of post retirement benefits. On the other hand, the Authority not even allowed the funds actually deposited in post retirement fund by MEPCO from the already allowed inadequate Distribution Margin.
- ii) Further, the authority discussed in Para 25.6 and 25.9 of MEPCO Distribution Tariff Determination for FY 2018-19 & FY 2019-20, dated December 24, 2020 that provisions were allowed before FY 2012-13 which were not deposited into the pension fund.
- iii) In this regard, it is clarified that the amounts allowed at that time in the head of Pay & Allowance were inclusive of Post Retirement benefits. The same were also inadequate in relation to the actual provisions. The comparison of actual & determined Cost of Pay & Allowances including Retirement Benefits for the FY 2008-09 to FY 2011-12 is given as under:



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DKD Millions

	Actual				Less Determined	
Year	Pay & Provision for Total De Allowance PRB		Determined			
2008-09	2,512	931	3,443	3,035	(408)	
2009-10	2,674	1,759	4,433	3,490	(943)	
2010-11	3,687	2,009	5,696	4,014	(1,682)	
2011-12	4,467	2,527	6,994	4,616	(2,378)	
TOTAL	13,340	7,226	20,566	15,155	(5,411)	

Table 3.18-PYA-Post Retirement Benefits (PRB) Actual & Allowed

iv) It is further submitted that the allowed provisions were even less than the actual payments made for FY 2008-09 to 2011-12 as summarized below:

 Table 3.19-PYA-Post Retirement Benefits (PRB) Less Determined
 PKR Million

	Actual					
Year	Pay & Allowance	Provision for PRB	Total	Determined	Determined	
2008-09	2,512	322	2,834	3,035	201	
2009-10	2,674	384	3,058	3,490	432	
2010-11	3,687	483	4,170	4,014	(156)	
2011-12	4,467	629	5,096	4,616	(480)	
TOTAL	13,340	1,818	15,158	15,155	(3)	

- v) The above table shows that during FY 2008-09 to FY 2011-12, the amount available for Post Retirement Benefits was so inadequate to honor even the actual payments of Post retirement Benefits. Rather the deficit of Rs. 3 Million was financed by MEPCO from its own kitty being a compulsory obligation of the company. The above situation give a brief incite to the unavailability of funds to create pension trust fund even before FY 2012-13.
- vi) MEPCO suffered a gap of Rs. 23,531/- Million in the actual provisions for postretirement benefits as per audited Financial Statements and the amount allowed by NEPRA based on the actual payments for the FY 2015-16 till FY 2019-20. The year wise gap is given below:

Table 3.20-PYA-(PR	PKR Million		
Year	Actual Provisions	Allowed by NEPRA	Gap
2015-16	7,327	2,134	5,193
2016-17	4,930	2,461	2,469
2017-18	6,550	2,707	3,843
2018-19	8,679	4,232	4,447
2019-20	12,233	4,655	7,578
Total	39,720	16,189	23,531

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- vii) It is also obvious that in absence of sufficient funds (provisions not allowed by NEPRA), MEPCO may not be able to deposit the requisite amounts in Post Retirement Benefit fund. This will further discourage the NEPRA objective that by creating Post Retirement Fund a time will come when the fund will be able to generate sufficient amount in line with the required provisions and due to this the Distribution Margin of the petitioner would eventually be reduced and ultimately the consumer end Tariff will reduce. However, in the present scenario of allowing only actual payments against post retirement benefits, the said phenomena do not seem practicable.
- viii) The Authority has already allowed Provisions for Post Retirement Benefits to 03 DISCOs namely IESCO, LESCO & FESCO operating under MYT regime.
- ix) Foregoing above, the Authority is requested to allow Rs. 50,651 Million against post retirement benefits charged during FY 2015-16 to 2019-20 which were less allowed by the Authority.

#### 3.3.10.4 RORB less allowed by the Regulator

The Authority less allowed RORB to the extent of Rs. 5,400 Million during FY 2015-16 to 2019-20 as per the following detail:

Table 3.21-PYA-Retur	RKR Million		
Year	Determined	Actual	Variance
2015-16	2,518	3,862	1,344
2016-17	3,489	4,279	790
2017-18	4,541	4,862	321
2018-19	4,122	5,446	1,324
2019-20	6,610	8,232	1,622
Total	21,280	26,680	5,400

T	able 3.22-PYA-Regu	latory Asset B	ase (RAB) &	RORB		RKR Million
	Description	2015-16	2017-18	2018-19	2019-20	
	Average RAB	32,644	36,168	41,096	49,752	54,822
	Rate of Return	11.83	11.83	11.83	10.95	15.02
	RORB	3,862	4,279	4.862	5,446	8,232

MEPCO has calculated RORB on the basis of actual audited financial statements for FY 2015-16 to FY 2019-20 on the RORB allowed for respective years. However, the complete working is attached as Annex-IV to this petition.

#### 3.3.10.5 PEPCO Management Fee

PEPCO issued debit notes of Rs. 610 Million against PEPCO management fee. The supporting documents of the same are attached.



## 3.3.10.6 Prime Minister Assistance Package

- (a) The Establishment Division's office memorandum No. 8/ 10 / 2013-E-(PT) dated 03.08.2016 regarding Assistance Package for Families of Employees Who Die in Service, was adopted by PEPCO Board of Directors. The same was forwarded to CEO MEPCO vide PEPCO letter No. GM(HR) /HRD /A-332 /4050-75 dated 04/11/2016.
- (b) BOD MEPCO in its 134<sup>th</sup> meeting held on 20/03/2018, has adopted the same Establishment Division's office memorandum dated 03.08.2016 regarding Assistance Package for Families of Employees Who Die in Service.
- (c) In this regard, MEPCO has projected estimated previous period (04/11/2016 to FY 2019-20) cost of Rs. 1,670 Million with average Rs. 569 Million annual projected impact in subsequent years FY 2020-21 to FY 2024-25. The Authority is requested to allow Rs. 1,670 Million as Prior year adjustment. However, it is submitted that it is difficult to project no. of employee who die during service on yearly basis, therefore, it requested to allow the actual amount rather than the projected amounts on this account.

#### 3.3.10.7 PPP Periodic Adjustments

NEPRA Guidelines for determination of consumer end tariff (Methodology and process) issued vide SRO # 34 (1)/2015, dated 16th January, 2015, the lay down procedure for periodic adjustments against Power Purchase Price. The detail of amount is as under:

#### Table 3.23 PYA-PPP Periodic Adjustments

Description	PKR Million
Less Determined Periodic Adjustment 4 <sup>th</sup> Q.FY 2019-20	437
Periodic Adjustments-1 <sup>st</sup> Quarter FY 2020-21	6,809
Periodic Adjustments-2 <sup>nd</sup> Quarter FY 2020-21	6,860
TOTAL	14,106

MEPCO was allowed Rs. 15,147 Million against PPP periodic adjustment for 4<sup>th</sup> Quarter of FY 2019-20 included negative impact of losses of Rs. 919 Million based on provisional FCA as requested by CPPA-G for the months of said quarter of FY 2019-20. However, on the basis of notified FCA rates for said quarter, the PPP periodic adjustment amounts to be Rs. 15,584 Million including negative impact of losses of Rs. 482 Million. Thus an amount of Rs. 437 Million (15,584-15,147) was less allowed to MEPCO. Foregoing above, it is requested to allow Rs. 437 Million against PPP adjustment for 4<sup>th</sup> quarter of FY 2019-20. MEPCO has submitted PPP Periodic Adjustments for 1<sup>st</sup> & 2<sup>nd</sup> quarter of FY 2020-21 amounting to Rs. 6,809 Million & Rs. 6,860 Million respectively, for

which, determination is yet awaited. The detailed workings of each above item of PPP adjustments are attached

#### 3.3.10.8 Other Issues

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#### 3.3.10.9 Non Payment of Use of System Charges:

MEPCO operational area is in the vicinity where major thermal generation of country takes place and NTDC does not evacuate all power directly from these power plants. Resultantly, MEPCO's transmission assets/ network system are used for power evacuation/ transmission, and accordingly, to cater for this service and transmission losses, MEPCO has been allowed by NEPRA to claim use of system charges from the neighboring DISCOs & NTDC, but MEPCO's such claims / invoices amounting to Rs.17,083 million for the period from January 2006 to December 2015, have not been accepted by the respective Companies despite the fact that those entities are also the licensees of NEPRA. To materialize implementation of NEPRA's said decision, pursuant to para 24.5 of MEPCO Tariff determination made on 29th February 2016, the Regulator conducted a meeting with all DISCOs and NTDC. However, final outcome is still awaited. It is therefore again requested that MEPCO's said issue of UoSC and transmission losses, outstanding since long, may kindly be resolved.

#### 3.3.10.10 Delays in payment of Tariff Differential & Other Subsidies:

A major reason for cash constraints faced by the Company is the delays in release of Tariff Differential and Other Subsidies by the GoP. As evident from the table below, a major portion of the annual revenue attributed to tariff differential subsidy remained unpaid at each year end. The cumulative impact of TDS for the FY 2017 till 2020 was 23.3% remained unpaid.

Table 3.24: Tariff differential subsidy (TDS)		· · · · · · · · · · · · · · · · · · ·		
	FY 17	FY 18	FY 19	FY 20
Tariff differential subsidy (TDS)	22,903	30,954	64,840	79,588
Subsidy paid during the year	15,098	14,070	69,187	53,799
Unpaid subsidy at year end	7,806	16,884	(4,347)	25,789
Unpaid subsidy at year end (% of TDS)	34%	55%	(7)%	32%
Cumulative unpaid subsidy		23%		



Table 3.17: Other Subsidies			-	
	FY 17	FY 18	FY 19	FY 20
Subsidies Claimed (ISP, ZRIR, SME				
etc.)	2,127	3,957	9,890	21,753
Paid during the year	0	1,602	10,043	0
Unpaid at year end	2,127	2,355	(153)	21,753
Unpaid subsidy at year end (% of Claimed)	100%	59.5%	(1.6)	100%
Cumulative unpaid subsidy %		69.1%		

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3.3.10.11 The imbalance created as a result of the above, severely affects the Company's ability to discharge its obligation towards power purchase cost and even leads to its inability to ensure reliable and consistent supply of electricity. This also leads to creation of circular debt and huge Supplemental Charges on delayed payments to IPPs which can easily be saved if the release of subsidies is to be made in time.

3.3.10.12 The Company is currently unable to pass-through the cost of financing this shortfall in cash through its tariff and thus has to finance it through its internal resources. In view of the above, it is thus requested, that NEPRA allow the Company to charge a cost of working capital in the range of KIBOR plus a spread of 3.0% of the average monthly revenue requirement of MEPCO. This shall allow the Company cost of working capital of Rs. 1,346 Million for tariff control period which will help to effectively manage MEPCO's cash flows and also to help in improving the strained liquidity conditions the Company is currently Arbitrary Calculation of Delayed Payment Charges by CPPA-G.

MEPCO MYT For FY 2020-21 to FY 2024-25

## 4. **REVIEW OF ADJUSTMENTS**

#### 4.1. Pass-through items

#### 4.1.1 Monthly Fuel Adjustments

4.1.1.1 The existing practice with respect to the adjustments on account of variation in fuel cost component of PPP on monthly basis may continue for the 2020-21 to 2024-25 period to be reflected in the consumers' monthly bill as Fuel Adjustment Charge as per following formula. However, it is proposed that the references may be set with due care to avoid imbalances in the actual and reference fuel costs.

#### Fuel Price Variation = Actual Fuel Cost Component - Reference Fuel Cost Component

Where:

Fuel Price variation is the difference between actual and reference fuel cost component

- 4.1.1.2 Actual fuel cost component is the fuel cost component in the pool price on which the DISCOs are being charged by CPPA in a particular month; and
- 4.1.1.3 Reference fuel cost component is the fuel cost component for the corresponding month projected for the purpose of tariff determination.

#### 4.1.2 Quarterly PPP Adjustments

- 4.1.2.1 The quarterly adjustments may also be done for the tariff period as per the following scope.
  - The adjustments pertaining to the capacity and transmission charges.
  - The impact of T&D losses on the components of PPP.
  - Adjustment of Variable O&M.

However, it is proposed that PPP adjustment should be allowed monthly on the analogy of Fuel Cost Adjustment (FCA) mechanism.

## 4.2. Annual true-up adjustment

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4.2.1 Investments made by the Company are added to the Regulatory Assets Base which is used to determine the Return on Rate Base. The difference between the budgeted and actual investment will result in variations in RAB and Return on Rate Base. It is therefore requested that investments should be trued up every year. As a 5 year multi-year tariff has been requested, investment trued up at the end of each year will ensure that appropriate return is allowed on the Regulatory Assets Base for the next year. Further, it will enable NEPRA to monitor performance of the DISCO in terms of timely completion of proposed projects and ensuring prudency in costs so no undue burden is placed on the end-user.

### 4.3. Future Prior Year Adjustments

- 4.3.1 It is proposed to continue Prior Year Adjustments in future periods to address the issues included, but not limited to the following
  - Any over/under-recovery of Power Purchase cost due to delayed determination/implementation of consumer end tariff to be trued up to the extent of actual figures;
  - Any under or over recovery of revenue due to variation in the forecasted and actual consumer mix;
  - Variation in forecasted & actual Distribution Margin, other income and Prior
     Period Adjustments; and
  - Any other adjustment in addition to above.

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## 5. SUMMARY AND CONCLUSION

## 5.1. SUMMARY

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On the basis of above it is, inter alia, submitted that while admitting and allowing this petition of the Company for FY 2021-21 to 2024-25 whereby:

- 5.1.1 The Company may be benefited by the timely determination and immediate application of the proposed tariff to ensure its financial viability and reliable system of supply of electricity to its 6.885 Million (by the end of FY 20) consumers;
- 5.1.2 NEPRA may determine with reasons and allow the Company, on basis of anticipated sale during FY2020-21 to FY 2024-25, to recover the Revenue Requirement as mentioned in the tariff petition formats including Investment Plan of PKR 69,681 million (It does not include the CAPEX related to consumer contribution which amounts to PKR 46,671 million
- 5.1.3 The other periodical adjustments as per determinations of NEPRA may please be allowed to be continued;
- 5.1.4 MEPCO may be allowed induction of 6,566 nos. of employees in tariff control period as per the proposed induction plan submitted with this tariff petition
- 5.1.5 The company may be allowed as requested above to create new office namely "Market Implementation & Regulatory affair Department (MIRAD)"to deal with the matter related with Competitive Trading Bilateral Contract Market (CTBCM) and other allied matters.
- 5.1.6 The Company may be allowed to create 36 new (op) Sub Divisions, 05 new (op) Divisions, 08 new/ upgrade grid station offices, 01 each new office of Operation circle, M&T circle, RRE construction division, Regional store. Construction sub division & MIRAD during tariff control period as requested in this tariff petition.
  - 5.1.7 The Company may be allowed Annual WACC indexation for RORB calculation for the tariff period.
  - 5.1.8 To allow the Company the proposed segregation of Controllable and Uncontrollable cost, Repair & Maintenance through "K" factor and a "Z" factor for unforeseen factors.
  - 5.1.9 Any other relief, order or direction which The Authority deems fit.



## 6. SUMMARY OF EVIDENCE

## 6.1. EVIDENCES

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The summary of evidence giving brief particulars of data, facts and evidence in support of this tariff petition forms an integral part thereof as mentioned below:

6.1.1	Copy of Resolution of Board of Directors MEPCO	(Annex-!)
6.1.2	Standard Petition Formats	(Annex-II)
6.1.3	Three years Financial Statements (2017-18 to 2019-20)	(Annex-III)
6.1.4	PYA- RORB Calculation	(Annex-IV)
6.1.5	PYA-Prime Minister Assistance Package Details	(Annex-V)
6.1.6	PYA-PPP Periodic Adjustment Working	(Annex-VI)

That in view of the grounds and facts mentioned above, it is respectfully prayed that while admitting and allowing this petition, MEPCO's Multiyear tariff for the next 05 years i.e. FY 2020-21 to FY 2024-25 may very graciously be determined as estimated hereinabove.

## COMPLIANCE OF DIRECTIONS

MEPCO has submitted Compliance status of Authority's directions given in Tariff Determination dated 24<sup>th</sup> December, 2020 for FY 2018-19 & 2019-20 vide this office letter No. FDM/ BS/ Tariff/ 29672 dated 03/05/2021.

**PETITIONER** Multan Electric Power Company Ltd.

## STANDARD PETITION FORMATS FOR DISTRIBUTION COMPANIES MULTAN ELECTRIC POWER COMPANY LIMITED INDEX

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FORM NO.	DESCRIPTION
1	Company Statistics
2	Profit & Loss Statement
<u>3</u>	Profit & Loss Statement ( Month wise )
<u>4</u>	Balance Sheet
<u>5</u> .	Cash Flow Statement
<u>6</u>	Power Purchase Price
<u>7</u>	Line Losses Statement
<u>8</u>	DISCO load factors
<u>9</u>	Average Rate per Unit Purchased and Sold
<u>10</u>	Demand (Actual and Calculated) and Number of Customers
<u>11</u>	Evaluation of Energy Sold and Setting up Average Energy Sold
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15	Projected Energy Sale & Growth
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24	Slab Wise Domestic Consumers Analysis
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29	Bonds

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#### MEPCO **Company Statistics**

	Unit	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22 🔅	'FY 2022-23	FY 2023-24	FY 2024-25
		Actual	Actual	Projected	Projected	Projected	Projected	Projected
Units Sold	MkWh	16,310	16.382	16,741	17,644	18,028	18,411	18,801
Units Received	MkWh	19,367	19,325	19,695	20,697	21,110	21,533	21,964
Units Lost	MkWh	3,057	2,943	2,954	3,053	3,081	3,122	3,163
Sales Revenue	Mln. Rs.	165,348	199,343	292,933	279.227	321,495	341,557	377,985
Peak demand during FY	MW	4,693	4,891	5,057	5,210	5,470	5,740	6,020
Number of Consumers	Nos.	6,485,431	6,885,110	7,281,004	7,717,864	8,243,451	8,738,058	9,262,341
Area	Km	105,505	105,505	105,505	105,505	105,505	105,505	105,505
Circles	Nos.	9	9	9	9	9	9	10
Divisions	Nos.	38	38	39	40	41	42	43
Sub Divisions	Nos.	180	181	186	192	199	207	217
Length of Feeders	Km	77,996	78,309	80.038	81,929	83,796	85,894	88,036
Average Length of Feeders	Km	57.3	55.0	49.7	48.4	47.2	46.0	44.9
Maximum Length of Feeder	Km	270.3	269.5	225.0	200.0	185.0	170.0	145.0
Minimum Length of Feeder	Km	0.20	0.19	0.19	0.19	0.19	0.19	0.19
Target for new connections	Nos.	355.023	350,000	395,894	436,860	525,587	494,607	524,283
Length of High Voltage Transmission lines (132 kV)	Km	3.929	4,031	4,095	4,235	4,333	4,477	4,555
Length of STG lines (66kV)	Km	872	702	682	682	668	668	668
Length of Low Voltage Distribution lines (400 V)	Km	49,995	50,110	50,636	51,282	51,944	52,622	53,348
		•						
Number of HV transformers	Nos.	279	294	306	319	334	346	359
Number of burned down HV transformers (132 KV)	Nos.		4	3	1 ·	1	1	1
Number of STG transformers (66 KV)	Nos.	19	. 11	.11	9	9	7	7
Number of burned down STG transformers (66 KV)	Nos.	-	-	-	-	-	-	-
Number of LV transformers	Nos.	169,938	179,577	195,298	211,019	226,019	241,019	256,740
Number of burned down LV transformers	Nos.	6,589	8,363	7,526	6,773	6,095	5,485	4,936

	i		2	strength			
	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Number of Employees	Actual	Actual	Projected	Projected	Projected	Projected	Projected
Qualified Professionals							
Engineers	384	360	335	380	382	390	396
Others	125	111	105	137	143	152	159
	509	471	440	517	525	542	555
Staff							()
Technical	9,941	9,567	10,060	10,439	10,729	10,933	10.905
Clerical	829	810	780	847	904	956	1,017
Non Technical	5,398	5,218	5,044	6,236	6,878	7,307	7,696
	16,168	15,595	15,884	17,522	18,511	19,196	19,698
GRAND TOTAL	16,677	16,066	16,324	18,039	19,036	19,738	20,253

Ļ					COST			
		FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
1	Number of Employees	Actual	Actual	Projected	Projected	Projected	Projected	Projected
I <sub>A</sub>	Qualified Professionals							
1	Engineers	590	683	565	695	757	843	943
!	Others	192	211	177	251	283	329	379
11 <sup>1</sup>		782	894	743	946	1,040	1,172	1,322
в	Staff							
1	Technical	10,768	12,812	11,993	13,480	15,014	16,697	18,475
(	Clerical	898	1,085	930	1,094	1,265	1,460	1,710
	Non Technical	5,847	6,988	6,013	8,052	9,625	11,159	12,944
1		17,513	20,885	18,936	22,626	25,904	29,316	33,129
L	GRAND TOTAL	18,295	21,779	19,679	23,571	26,944	30,488	34,451

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## Power Distribution Business

#### Profit & Loss Statement

			FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
1		2014 - C C Maria and Annas - An	Actual	Actual	Projected	Projected	Projected	Projected	Projected
	Power Balances								
]	Units Received	[MkWh]	19,367	19,325	19,695	20,697	21,110	21,533	21,964
	Units Lost	[MkWh]	3,057	2,943	2,954	3,053	3,081	3,122	3,163
	Units Lost	[%age]	15.79%	15.23%	15.00%	14.75%	14.60%	14.50%	14.40%
	Units Sold	[MkWh]	16,310	16,382	16,741	17,644	18,028	18,411	18,801
	Revenue								_
	Wheeling Charges Revenue	[MIn Rs]	165,348	199,343	87,903	. 35,021	40,246	45,629	51,345
	Subsidy	[Min Rs]	69,965	79,588	-	•	-	-	-
	Fuel Price Adjustment	[Min Rs]	-	-	-	-	-	-	-
	Total Sales Revenue	(Min Rs)	235,312	278,931	87,903	35,021	40,246	45,629	51,345
	Rental & Service Income	[Min Rs]	155	151	154	142	155	159	160
	Amortization of Deferred Credits	[Min Rs]	2,759	2,952	3,212	3,506	3,838	4,156	4,479
	Other Income	[Min Rs]	3,657	3,991	1,882	1,790	1,885	1,996	2,105
	Total Revenue	[Min Rs]	241,884	286,025	93,151	40,460	46,123	51,939	58,088
	Operating Cost								
	Power Purchase Cost	[Min Rs]	225,725	248,407	-	-	-	-	-
J	O&M Expenses	[Min Rs]	22,814	26,191	21,922	25,767	29,220	32,865	36,935
	Depreciation	(Min Rs)	4,693	5,121	5,695	6,388	7,155	7,945	8,749
	Amortization	(Min Rs)	17	10					
	Supplemental Charges	(Min Rs)	2,171	1,848	-	-	-	-	-
	*Provision for Bad Debt	(Min Rs)	6,955	584	-	-	-	-	-
	Total Operating Cost	[Min Rs]	262,376	282,161	27,617	32,155	36,375	40,810	45,684
	ЕВІТ	(Min Rs)	(20,492)	3,864	65,534	8,305	9,748	11,130	12,404
	Financial Charges	[Min Rs]	2,310	2,212	2,003	1,735	1,491	1,266	1,088
	Earning before Tax (EBT)	[Min Rs]	(22,802)	1,652	63,531	6,570	8,257	9,863	11,317
	Tax	[Min Rs]		1,276					
	Earning after Tax (EAT)	[Min Rs]	(22,802)	376	63,531	6,570	8,257	9,863	11,317
	WPPF	[Min Rs]							
	Profit for the period	[Min Rs]	(22,802)	376	63,531	6,570	8,257	9,863	11,317
	Openning Accumulated Loss Comprehensive Income Accumulated Profit/ (Loss)	(Min Rs) (Min Rs) (Min Rs)	(106,192) (4,593) (133,587)	(133,587) 5,674 (127,537)	(127,537) (10,239) (74,245)	(74,245) (5,886) (73,561)	(73,561) (4,776) (70,080)	(70,080) (3,650) (63,868)	(63,868) (3,362) (55,913)

DF - FORM 3																		~
MEPCO																Power Distribu		. ( <sub>4</sub> )
Profit & Loss Stateme	ent (F. Y	ear 2018-19	91													1 owst blathbu	uon buenes.	3
		Month 1	Month 2	Month 3	1st Qrt	Month 4	Month 5	Month 6	2nd Ort	Month 7	Month 8	Month 9	3rd Ort	Month 10	Month 11	Month 12	4th Ort	Total
Dewee Delevere		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
Power Balances		0.000	0.400															
Units Received	[MkWh]	2,369	2,486	2,172	7,028	1,531	1,068	1,034	3,633	1,010	852	1,096	2,958	1,540	2,037	2,170	5,747	19,367
Units Lost	[MkWh]	516	511	280	1,307	187	42	143	372	60	28	196	284	228	425	440	1,094	3,057
	[%age]	21.8%	20.6%	12.9%	18.6%	12.2%	3.9%	13.9%	10.2%	5.9%	3.3%	17.9%	9.6%	14.8%	20.9%	20.3%	19.0%	15.8%
Units Sola	(MkWh)	1,853	1,975	1,893	5,721	1,344	1,026	891	3,261	950	824	900	2,674	1,312	1,612	1,730	4,654	16,310
Revenue																		
Sales Revenue	(Min Rs)	18,786	20,024	19,190	58,000	13,628	10,405	9,029	33,062	9,629	8,352	9,125	27,106	13,303	16,341	17,534	47.179	165.348
Subsidy	[MIn Rs]	7,949	8,473	8,120	24,542	5,766	4,403	3,821	13,990	4,074	3,534	3,861	11,470	5,629	6,915	7,419	19.963	69,965
Fuel Price Adjustment	(Min Rs)				·				-				· -				-	-
Total Sales Revenue	(Min Rsj	26,736	28,497	27,310	82,542	19,394	14,808	12,850	47,052	13,703	11,887	12,986	38,576	18,932	23,256	24,954	67.142	235.312
Rental & Service Income	[Min Rs]	18	19	18	55	13	10	8	31	. 9	8	. 9	25	13	15	16	44	155
Amortization of Def Credits	[MIn Rs]	313	334	320	968	227	174	151	552	161	139	152	452	222	273	293	787	2.759
Other Income	(Min Rs)	169	180	172	521	122	94	81	297	87	75	82	244	120	147	158	424	1.486
Surcharge on Late Payment	[Min Rs]	247	263	252	762	179	137	119	434	126	110	120	356	175	215	230	620	2,171
Total Revenue	(Min Rs)	27,482	29,293	28,072	84,847	19,935	15,221	13.209	48,366	14,085	12,218	13,349	39,653	19,461	23,906	25,651	69.017	241.884
Operating Cost													·					
Power Purchase Cost	(Min Rs)	24,100	25.844	22.871	72.815	18 481	14 132	14 968	47 582	15 400	12 320	15 106	42 826	18 885	10 837	23 779	62 502	225 725
O&M Expenses	(Min Rs)	2,592	2,763	2.648	8.003	1.880	1.436	1 246	4.562	1 329	1 152	1 259	3 740	1 835	2 255	2 4 1 9	6 509	223,723
Depreciation	[Min Rs]	533	568	545	1,646	387	295	256	938	273	237	• 259	769	378	464	2,415	1 2 2 9	1 693
Amortization	(Min Rs)	2	2	2	, 6	1	1	1	3	1	1		3	1	2	2	5	4,000
Provision for Bad Debt	[Min Rs]	790	842	807	2,440	573	438	380	1.391	405	351	384	1.140	560	687	738	1 985	6 955
Supplemental Charges	(Min Rs)	247	263	252	762	179	137	119	434	126	110	120	356	175	-215	230	620	2 171
Total Operating Cost	(Min Rs)	28,264	30,282	27,125	85,671	21,502	16,439	16,970	54,911	17,534	14,171	17,129	48,834	21,834	23,460	27,666	72.959	262.376
EBIT	(Min Rs)	(782)	(990)	948	(824)	(1.567)	(1 217)	(3 761)	(6 545)	(3 449)	(1.052)	(2 780)	(0.494)	(2 272)	446	(2,015)	(2.0.42)	(20,402)
Financial Charges	(Min Rs)	262	280	268	810	190	145	(3,701)	(0,545)	(3,440)	(1,800)	(3,700)	(3,101)	(2,373)	440	(2,015)	(3,942)	(20,492)
EBT	(Min Rs)	(1.044)	(1 269)	680	(1 634)	(1 757)	(1 363)	(3 887)	(7 007)	(3 583)	(2.060)	(2 008)	0 560)	(2 550)	220	240	(4 002)	2,310
Tax	[Min Rs]	-	-	-	(1,004)	-	(1,505)	(0,007)	(1,007)	(0,000)	(2,009)	(3,306)	(3,360)	(2,559)	210	(2,200)	(4,602)	(22,802)
EAT	[Min Rs]	(1.044)	(1.269)	680	(1.634)	(1 757)	(1.363)	(3.887)	(7 007)	- (3.583)	(2 060)	(3 008)	- (9 560)	- (2.550)	-	(2,260)	-	(22 002)
WPPF	(Min Rs)		-	-	(1,004)		(1,505)	(0,007)	(1,007)	(0,000)	(2,009)	(3,300)	(3,360)	(2,559)	210	(2,200)	(4,602)	(22,802)
Profit for the period	[Min Rs]	(1,044)	(1,269)	. 680	(1,634)	(1,757)	(1,363)	(3,887)	(7,007)	(3,583)	(2,069)	(3,908)	(9,560)	(2,559)	218	(2,260)	(4,602)	(22,802)

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#### FORM - 3 (A) MEPCO

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#### Profit & Loss Statement (Base Year 2019-20)

		Month 1	Month 2-	Month 3	1st Ort	Month 4	Month 5	Month 6	2nd Ort	Month 7	Month 8 🔿	Month 9	3rd Qrt + 1	Month 10	Month 11	Month 12	4th Qrt	Total 🚽
CONTRACTOR IN THE PROPERTY AND A CONTRACT OF A DESCRIPTION OF A DESCRIPA DESCRIPTION OF A DESCRIPTION OF A D		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
Power Balances													·					
Units Received	[MkWh]	2,465	2,482	2,359	7,306	1,430	1,010	944	3,384	920	929	894	2,743	1,474	2,129	2,290	5,892	19,325
Units Lost	(MkWh)	513	485	293	1,291	155	27	119	301	43	31	164	237	220	441	453	1,114	2,943
Units Lost	(%age)	20.8%	19.5%	12.4%	17.7%	10.8%	2.7%	12.6%	8.9%	4.6%	3.3%	18.3%	8.6%	14.9%	20.7%	19.8%	18.9%	15.2%
Units Sold	[MkWh]	1,952	1,997	2,066	6,015	1,275	983	825	3,083	878	898	730	2,506	1,254	1,688	1,837	4,778	16,382
Revenue																		
Sales Revenue	(Min Rs)	23,756	24,298	25,138	73,192	15,515	11,958	10,042	37,515	10,679	10,927	8,885	30,491	15,257	20,536	22,352	58,145	199,343
Subsidy	[Min Rs]	9,485	9,701	10,036	29,222	6,194	4,774	4,009	14,978	4,264	4,363	3,547	12,174	6,091	8,199	8,924	23,215	79,588
Fuel Price Adjustment	[Min Rs]				-				-				-				-	-
Total Sales Revenue	[Min Rs]	33,240	33,999	35,174	102,414	21,709	16,732	14,052	52,493	14,943	15,290	12,432	42,665	21,348	28,735	31,277	81,360	278,931
Rental & Service Income	[Min Rs]	18	18	19	55	12	9	8	28	8	8	7	23	12	16	17	44	151
Amortization of Def Credits	(Min Rs)	352	360	372	1,084	230	177	149	556	158	162	132	452	226	304	331	861	2,952
Other Income	(Min Rs)	255	261	270	787	167	129	108	403	115	117	96	328	164	221	240	625	2,143
Surcharge on Late Payment	[Min Rs]	220	225	233	678	144	111	93	348	99	101	82	283	141	190	207	539	1,848
Total Revenue	(Min Rs)	34,086	34,864	36,068	105,018	22,261	17,158	14,409	53,828	15,323	15,679	12,748	43,750	21,891	29,466	32,072	83,429	286,025
Operating Cost																		
Power Purchase Cost	(Min Rs)	25,412	25,397	27,951	78,760	19,682	15,370	16,022	51,075	14,542	17,292	14,428	46,262	21,416	25,432	25,463	72,311	248,407
O&M Expenses	[Min Rs]	3,121	3,192	3,303	9,617	2,038	1,571	1,319	4,929	1,403	1,436	1,167	4,006	2,005	2,698	2,937	7,640	26,191
Depreziation	[Min Rs]	610	624	646	1,880	399	307	258	964	274	281	228	783	392	528	574	1,494	5,121
Amortization	[Min Rs]	1	1	1	4	1	1	1	2	1	1	0	2	1	1	1	3	10
Provision for Bad Debt	(Min Rs)	70	71	74	214	45	. 35	29	110	31	32	26	89	45	60	65	170	584
Supplemental Charges	[Min Rs]	220	225	233	678	144	111	93	348	99	101	82	283	141	190	207	539	1,848
Total Operating Cost	[Min Rs]	29,434	29,511	32,207	91,153	22,310	17,395	17,722	57,427	16,350	19,143	15,932	51,425	23,999	28,909	29,248	82,156	282,161
EBIT	[Min Rs]	4,652	5,352	3,861	13,865	(48)	(237)	(3,313)	(3,599)	(1,027)	(3,464)	(3,184)	(7,676)	(2,108)	556	2,824	1,273	3,864
Financial Charges	[MIn Rs]	264	270	279	812	172	133	111	416	118	121	99	338	169	228	248	645	2,212
EBT	[Min Rs]	4,388	5,083	3,582	13,053	(221)	(370)	(3,425)	(4,015)	(1,146)	(3,585)	(3,283)	(8,014)	(2,277)	329	2,576	628	1,652
Tax	[Min Rs]	•	-	-	-	-	-	-	-	-	- '	- '	-	-	-	1,276	1,276	1,276
EAT	[Min Rs]	4,388	5,083	3,582	13,053	(221)	(370)	(3,425)	(4,015)	(1,146)	(3,585)	(3,283)	(8,014)	(2,277)	329	1,300	(648)	376
WPPF	[Min Rs]	-	-	-		-	-	- 1	•	-	-	-	-	-	-		-	-
Profit for the period	[Min Rs]	4,388	5,083	3,582	13,053	(221)	(370)	(3,425)	(4,015)	(1,146)	(3,585)	(3,283)	(8,014)	(2,277)	329	1,300	(648)	376

# FORM - 3 (B) MEPCO

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#### Profit & Loss Statement (Test Year 2020-21)

		Month 1.	Month 2	"Month 3.	⇔1st Qrt⊛	Month 4	Month 5.	Month 6	2nd Qrt	Month 7.	Month 8	Month 9	. 3rd Qrt 😒	Month 10	Month 11	Month 12	💭 4th Qrt	Total
		Projected	Projected	Projected	Projected	Projucted	Flajecteu											
Power Balances		0.400	0.040	0.400	7 040	4 500	1 000	070	2 574	020	047	012	2 798	1 503	2 171	2 336	6.010	19.695
Units Received	[MkWh]	2,483	2,648	2,182	7,313	1,599	1,003	972	3,574	335	347	165	2,750	222	2,177	455	1 1 1 9	2 954
Units Lost	(MkWh)	483	604	73	1,160	298	4	130	432	40	0.54	100	0 70/	11 00/	20.4%	10.5%	18.6%	15.0%
Units Lost	[%age]	19.5%	22.8%	3.4%	15.9%	18.7%	0.4%	13.3%	12.1%	4.9%	3.5%	18.1%	0.7%	14.070	20.470	1 0 0 1	10.076	16 7/1
Units Sold	(MkWh)	2,000	2,045	2,109	6,153	1,301	999	842	3,142	893	913	747	2,504	1,201	1,729	1,001	4,031	10,741
Revenue																		
Sales Revenue	(Min Rs)	10,503	10,736	11,072	32,310	6,829	5,248	4,423	16,500	4,690	4,797	3,923	13,410	6,727	9,079	9,877	25,683	87,903
Subsidy	[Min Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel Price Adjustment	[Min Rs]				-				-				-				-	•
Total Sales Revenue	(Min Rs)	10,503	10,736	11,072	32,310	6,829	5,248	4,423	16,500	4,690	4,797	3,923	13,410	6,727	9,079	9,877	25,683	87,903
Rental & Service Income	[Min Rs]	18	19	19	57	12	9	8	29	8	8	7	24	12	16	17	45	154
Amortization of Def Credits	[Min Rs]	384	392	405	1,180	250	192	162	603	171	175	143	490	246	332	361	938	3,212
Other Income	[Min Rs]	225	230	237	692	146	112	95	353	100	103	84	287	144	194	211	550	1,882
Surcharge on Late Payment	[Min Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Revenue	[Min Rs]	11,130	11,377	11,733	34,239	7,237	5,561	4,687	17,486	4,970	5,083	4,158	14,210	7,128	9,621	10,467	27,216	93,151
Operating Cost																		
Power Purchase Cost	(Min Rs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O&M Expenses	(Min Rs)	2.619	2.677	2,761	8.058	1,703	1,309	1,103	4,115	1,170	1,196	978	3,344	1,678	2,264	2,463	6,405	21,922
Depreciation	(Min Rs)	680	696	717	2,093	442	340	287	1,069	304	311	254	869	436	588	640	1,664	5,695
Amortization	[Min Rs]	-	-	-	<i>.</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
Provision for Bad Debt	[Min Rs]	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplemental Charges	[Min Rs]	-	-	-	-	-	-	- '	-	-	-	-	-	-	-	-	-	-
Total Operating Cost	[Min Rs]	3,300	3,373	3,478	10,151	2,146	1,649	1,390	5,184	1,473	1,507	1,233	4,213	2,113	2,852	3,103	8,069	27,617
EBIT	[Min Es]	7 830	8 004	8 254	24.088	5 091	3,913	3.298	12.302	3,496	3,576	2,925	9,997	5,015	6,768	7,364	19,147	65,534
Einancial Charges	(Min Rs)	239	245	252	736	156	120	101	376	107	109	. 89	306	153	207	225	585	2,003
EBT	(Min Rs)	7 591	7 7 5 9	8 002	23.352	4 936	3 793	3 197	11.926	3,390	3,467	2,836	9,692	4,862	6,562	7,139	18,562	63,531
Tax	(Min Rs)	-	-	-,001		-	-	-	-	-	-	-			-	-	-	-
EAT	(Min Rs)	7.591	7,759	8.002	23,352	4,936	3,793	3,197	11.926	3,390	3,467	2,836	9,692	4,862	6,562	7,139	18,562	63,531
WPPF	(Min Rs)	.,	-	-,		-	-	-	-	-	-	· -			-	-	-	-
Profit for the period	(Min Rs)	7 591	7 7 5 9	8 002	23.352	4 936	3 793	3 197	11,926	3,390	3,467	2.836	9,692	4,862	6,562	7,139	18,562	63,531

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## FORM - 3 (C)

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#### MEPCO Profit & Loss Statement (Test Year 2021-22)

Piuli & Luss Stateme	int (res	Month 1	Month 2	Month 3	1st Ort.	Month 4	Month 5	Month 6	2nd Ort	Month 7	÷Month 8 ≈	Month 9	3rd Qrt 🐲	Month 10	Month 11	Month 12	4th Qrt	Total 🚓
CONTRACTOR OF A CONTRACT	estante al	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected									
Power Balances																		~~ ~~ 7
Units Received	[MkWh]	2,640	2,658	2,526	7,825	1,531	1,081	1,012	3,624	986	994	957	2,937	1,578	2,280	2,452	6,310	20,697
Units Lost	[MkWh]	532	503	304	1,339	161	28	124	312	44	32	170	246	228	458	470	1,155	3,053
Units Lost	[%age]	20.2%	18.9%	12.0%	17.1%	10.5%	2.6%	12.2%	8.6%	4.5%	3.2%	17.7%	8.4%	14.4%	20.1%	19.2%	18.3%	14.8%
Units Sold	[MkWh]	2,108	2,155	2,222	6,485	1,371	1,053	888	3,312	941	963	787	2,692	1,350	1,822	1,983	5,155	17,644
Revenue														· · · ·				
Sales Revenue	(Min Rs)	4,184	4,277	4,411	12,873	2,721	2,091	1,762	6,574	1,868	1,911	1,563	5,343	2,680	3,617	3,935	10,232	35,021
Subsidy	(Min Rs)	-	-	-	-	-	-	-	-	-	-	. *	-	-	-	-	•	•
Fuel Price Adjustment	(Min Rs)				-				-				-				•	
Total Sales Revenue	[Min Rs]	4,184	4,277	4,411	12,873	2,721	2,091	1,762	6,574	1,868	1,911	1,563	5,343	2,680	3,617	3,935	10,232	35,021
Rental & Service Income	(Min Rs)	17	. 17	18	52	11	8	7	27	8	8	6	22	11	15	16	41	142
Amortization of Def Credits	[Min Rs]	419	428	442	1,289	272	209	176	658	187	191	156	535	268	362	394	1,024	3,506
Other Income	(Min Rs)	214	219	225	658	139	107	90	336	96	98	80	273	137	185	201	523	1,790
Surcharge on Late Payment	(Min Rs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
Total Revenue	[Min Rs]	4,834	4,941	5,096	14,872	3,143	2,416	2,036	7,595	2,159	2,208	1,806	6,172	3,096	4,179	4,546	11,821	40,460
Operating Cost																		
Power Purchase Cost	[Min Rs]	-		-	-		-	-	-	-	-		-		-	-	-	- 65 767
O&M Expenses	[Min Rs]	3,079	3,147	3,245	9,471	2,002	1,538	1,297	4,837	1,375	1,406	1,150	3,931	1,972	2,661	2,895	7,528	25,767
Depredation	[Min Rs]	763	780	805	2,348	496	381	321	1,199	341	349	285	974	489	660	/18	1,000	6,300
Amortization	(Min Rs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
Provision for Bad Debt	[Min Rs]	-	-	-	-	-	-		-	-	-	-	-	-	-	-	•	-
Supplemental Charges	(Min Rs)	-	-	-	-	-	-		-	-	-	-	-	-	-	-	0 205	22 455
Total Operating Cost	(Min Rs)	3,842	3,927	4,050	11,819	2,498	1,920	1,618	6,036	1,716	1,755	1,435	4,905	2,461	3,321	3,613	9,395	52,155
EBIT	(Min Rs)	992	1,014	1,046	3,052	645	496	418	1,559	443	453	371	1,267	636	858	933	2,426	8,305
Financial Charges	[Min Rs]	207	212	218	638	135	104	87	326	93	95	77	265	133	179	195	507	1,735
EBT	(Min Rs)	785	802	828	2,415	510	392	331	1,233	351	359	293	1,002	503	679	738	1,920	6,570
Тах	[Mtn Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EAT	[Min Rs]	785	802	828	2,415	510	392	331	1,233	351	359	293	1,002	503	679	738	1,920	6,570
WPPF	(Min Rs)	-	-		-	-	-	-	-	-	-	-	•	-	-	-	-	-
Profit for the period	(Min Rs)	785	802	828	2,415	510	392	331	1,233	351	359	293	1,002	503	679	738	1,920	6,570

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# FORM - 3 (D) MEPCO

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Profit & Loss Statement (Test Year 2022-23)

Solina and the second	12 <b>6</b> 3652	Month 1 20 Projected	Month 2. Projected	Month 3 Projected	Projected	Month 4 Projected	Month 5 4. Projected	Month 6 Projected	Projected	Month 7>* Projected	Projected							
Power Balances			-															
Units Received	(MkWn)	2,693	2,711	2,577	7,981	1,562	1,102	1,032	3,696	1,005	1,014	977	2,996	1,610	2,325	2,501	6,437	21,110
Units Lost	[MkWh]	539	509	306	1,354	161	26	125	312	44	31	172	246	230	463	476	1,169	3,081
Units Lost	[%age]	20.0%	18.8%	11.9%	17.0%	10.3%	2.3%	12.1%	8.4%	4.3%	3.0%	17.6%	8.2%	14.3%	19.9%	19.0%	18.2%	14.6%
Units Sold	[MkWh]	2,154	2,202	2,271	6,627	1,401	1,076	907	3,384	962	984	805	2,750	1,380	1,862	2,026	5,267	18,028
Revenue																		
Sales Revenue	(Min Rs)	4,809	4,915	5,069	14,793	3,127	2,403	2,025	7,555	2,147	2,196	1,796	6,140	3,080	4,157	4,522	11,759	40,246
Subsidy	(Min Rs)	-	-	•	-	-	-	-	• .	-		-	•	-	-	-	-	-
Fuel Price Adjustment	[Min Rs]				-				- '				.•				•	-
Total Sales Revenue	(Min Rs)	4,809	4,915	5,069	14,793	3,127	2,403	2,025	7,555	2,147	2,196	1,796	6,140	3,080	4,157	4,522	11,759	40,246
Rental & Service Income	[Min Rs]	18	19	19	57	12	9	8	29	8	8	- 7	24	12	16	17	45	155
Amortization of Def Credits	[Min Rs]	459	469	483	1,411	298	229	193	720	205	209	171	585	294	396	431	1,121	3,838
Other Income	(Min Rs)	225	230	237	693	146	113	95	354	101	103	. 84	288	144	195	212	551	1,885
Surcharge on Late Payment	(Min Rs)	-	-	-	-	-	-	-	-	-	-	-	· -	- '		-	-	-
Total Revenue	(Min Rs)	5,511	5,633	5,809	16,953	3,583	2,754	2,321	8,658	2,461	2,517	2,059	7,036	3,530	4,764	5,183	13,476	46,123
Operating Cost						1. A.												
Power Purchase Cost	(Min Fcs)	-	-	-	-	-	-	-	-	-		-	· -	-	-	-	•	-
O&M Expenses	(Min Rs)	3,491	3,569	3,680	10,740	2,270	1,744	1,470	5,485	1,559	1,594	1,304	4,458	2,236	3,018	3,283	8,537	29,220
Depreciation	(Min Rs)	855	874	901	2,630	556	427	360	1,343	382	390	319	1,092	548	739	804	2,091	7,155
Amortization	[Min Rs]	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	•	-
Provision for Bad Debt	[Min Rs]		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplemental Charges	[Min Rs]	-	-	-	-	-	-	-	-	-	-	-	· -		-	-	•	-
Total Operating Cost	[Min Rs]	4,346	4,443	4,582	13,370	2,826	2,172	1,830	6,828	1,941	1,985	1,624	5,549	2,784	3,757	4,087	10,628	36,375
EBIT	[Min Rs]	1,165	1,190	1,228	3,583	757	582	491	1,830	520	532	435	1,487	746	1,007	1,095	2,848	9,748
Financial Charges	(Min Rs)	178	182	188	548	116	89	75	280	80	81	67	227	114	154	168	436	1,491
EBT	(Min Rs)	987	1,008	1,040	3,035	641	493	415	1,550	441	451	369	1,260	632	853	928	2,412	8,257
Tax	(Min Rs)	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-
EAT	[Min Rs]	987	1,008	1,040	3,035	641	493	415	1,550	441	451	369	1,260	632	853	928	2,412	8,257
WPPF	[MIn Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Profit for the period	(Min Rs)	987	1,008	1,040	3,035	641	493	415	1,550	441	451	369	1,260	632	853	. 928	2,412	8,257
# FORM - 3 (E) MEPCO

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### Profit & Loss Statement (Test Year 2023-24)

	NEXTEN:	Month:1	Month 2.	Month 3	-1st Qrt	Month 4.	Month 5	, Month 6	2nd Qrt 💮	Month 7:	Month 8,	Month 9	3rd Qrt 🚓	Month 10	Month 11	Month 12	4th Qrt	Total 3
(2) Conditional Structure Structure in the second section of the State of the St	,	Projected																
Power Balances					<b>-</b>										0.070	0.554	0 50 5	
Units Received	[MkWh]	2,747	2,765	2,628	8,141	1,593	1,125	1,052	3,771	1,026	1,035	996	3,056	1,642	2,372	2,551	6,565	21,533
Units Lost	[MkWh]	547	517	309	1,374	163	26	126	315	43	30	174	248	233	470	483	1,186	3,122
Units Lost	(%age)	19.9%	18.7%	11.8%	16.9%	10.2%	2.3%	12.0%	8.4%	4.2%	2.9%	17.5%	8.1%	14.2%	19.8%	18.9%	18.1%	14.5%
Units Sold	[MkWh]	2,200	2,249	2,319	6,767	1,430	1,099	926	3,456	982	1,005	822	2,809	1,409	1,901	2,069	5,379	18,411
Revenue																		
Sales Revenue	(Min Rs)	5,452	5,573	5,747	16,772	3,545	2,724	2,296	8,565	2,434	2,490	2,037	6,961	3,492	4,713	5,127	13,331	45,629
Subsidy	[Min Rs]	·-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Fuel Price Adjustment	[Min Rs]				-				-				-				-	-
Total Sales Revenue	(Min Rs)	5,452	5,573	5,747	16,772	3,545	2,724	2,296	8,565	2,434	2,490	2,037	6,961	3,492	4,713	5,127	13,331	45,629
Rental & Service Income	(Min Rs)	19	19	20	58	12	9	8	30	8	9	7	24	12	16	18	46	159
Amortization of Def Credits	[MIn Rs]	497	508	523	1,527	323	248	209	780	222	227	185	634	318	429	467	1,214	4,156
Other income	(Min Rs)	238	244	251	734	155	119	100	375	106	109	89	304	153	206	224	583	1,996
Surcharge on Late Payment	[Min Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
Total Revenue	(Min Rs)	6,206	6,343	6,542	19,091	4,035	3,101	2,614	9,750	2,771	2,834	2,318	7,923	3,975	5,364	5,836	15,175	51,939
Operating Cost																		
Power Purchase Cost	(Min Rs)	-	-	-	-	-	-	-	-		-	-	. •	-	-	-	-	-
O&M Expenses	[Min Rs]	3,927	4,014	4,139	12,080	2,553	1,962	1,654	6,169	1,753	1,793	1,467	5,014	2,515	3,394	3,693	9,602	32,865
Depreciation	(Min Rs)	949	970	1,001	2,920	617	474	400	1,491	424	434	355	1,212	608	821	893	2,321	7,945
Amortization	(Min Rs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
Provision for Bad Debt	[Min Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplemental Charges	(Min Rs)	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
Total Operating Cost	[Min Rs]	4,876	4,984	5,140	15,000	3,170	2,436	2,054	7,660	2,177	2,227	1,821	6,226	3,123	4,215	4,586	11,923	40,810
EBIT	[Min Rs]	1,330	1,359	1,402	4,091	865	664	560	2,089	594	607	497	1,698	852	1,149	1,251	3,252	11,130
Financial Charges	(Min Rs)	151	155	160	466	98	76	64	238	68	69	57	193	97	131	142	370	1,266
EBT	[MIn Rs]	1,178	1,205	1,242	3,625	766	589	496	1,851	526	538	440	1,505	755	1,019	1,108	2,882	9,863
Tax	(Min Rs)	-	-	-	-	-	-	-	-	-	-	-		-		-	•	-
EAT	[Min Rs]	1,178	1,205	1,242	3,625	766	589	496	1,851	526	538	440	1,505	755	1,019	1,108	2,882	9,863
WPPF	[Min Rs]	-	-	-	-	-	-	-	-		-	· -	-	-	-	-	-	-
Profit for the period	(Min Rs)	1,178	1,205	1,242	3,625	766	589	496	1,851	526	538	440	1,505	755	1,019	1,108	2,882	9,863

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# FORM - 3 (F) MEPCO

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# Profit & Loss Statement (Test Year 2024-25)

	6214.SG	Month 1	Month 2	Month 3	sist Ort	Month 4	Month 5	Month 6	2nd Qrt	Month 7	Month 8	Month 9	3rd Qrt	Morith 10	Month 11	Month 12:	Ath Ort	Projected
Power Balances		Fiojecied	Flojected	Fiojecteu	Frojecieu	Fibjecieo	Filipected	riojecieu	Projected	rigented	ribjectou	i lojecioù	Tropoction	i rojstetet	( )ojecica	1 10/20100	i rejectoù	
Units Received	(MkWh)	2,802	2,821	2,681	8,303	1,625	1,148	1,073	3,846	1,046	1,055	1,016	3,117	1,675	2,419	2,602	6,697	21,964
Units Lost	[MkWh]	556	525	313	1,393	165	25	127	317	43	29	177	249	236	478	490	1,204	3,163
Units Lost	(%age)	19.8%	18.6%	11.7%	16.8%	10.1%	2.2%	11.9%	8.2%	4.1%	2.8%	17.4%	8.0%	14.1%	19.7%	18.8%	18.0%	14.4%
Units Sold	[MkWh]	2,246	2,296	2,368	6,911	1,461	1,122	946	3,529	1,003	1,026	839	2,868	1,439	1,942	2,113	5,493	18,801
Revenue																		
Sales Revenue	[Min Rs]	6,135	6,271	6,467	18,873	3,989	3,065	2,584	9,638	2,739	2,802	2,292	7,833	3,929	5,303	5,769	15,001	51,345
Subsidy .	[Min Rs]	-	-	-	-	-	-	-	-	-	_		-	-	<b>-</b> .	-	-	-
Fuel Price Acjustment	[Min Rs]				-				-				-					•
Total Sales Revenue	[Min Rs]	6,135	6,271	6,467	18,873	3,989	3,065	2,584	9,638	2,739	2,802	2,292	7,833	3,929	5,303	5,769	15,001	51,345
Rental & Service Income	(Min Rs)	19	20	20	59	12	10	. 8	30	9	9	7	24	12	16	18	47	160
Amortization of Def Credits	[MIn Rs]	535	547	564	1,646	348	267	225	341	239	244	200	683	343	463	503	1,309	4,479
Other Income	(Min Rs)	251	257	265	774	164	126	106	395	112	115	94	321	161	217	236	615	2,105
Surcharge on Late Payment	(Min Rs)	-	-	-	-	-	-	-	-	· -		-	-	-	-	-	-	-
Total Revenue	[Min Rs]	6,940	7,094	7,316	21,351	4,513	3,468	2,923	10,904	3,099	3,170	2,593	8,861	4,445	5,999	6,527	16,972	58,088
Operating Cost							•											
Power Purchase Cost	(Min Rs)	-	-	-	-	-	-		-	-	-	-	· •	-		-	-	-
O&M Expenses	(Min Rs)	4,413	4,511	4,652	13,576	2,869	2,205	1,859	6,933	1,971	2,015	1,648	5,634	2,826	3,815	4,150	10,791	36,935
Depreciation	(Min Ks)	1,045	1,069	1,102	3,216	680	522	440	1,642	467	477	390	1,335	670	904	983	2,556	8,749
Amortization	[Min Rs]	-	-	-	-	-	-	-	-	-	-	-	•	- ·	-	1 <b>-</b> 1		-
Provision for Bad Debt	[Min Rs]	-	-	-	-	-	-	-	-	-	-	-		·_	-	-	-	-
Supplemental Charges	(Min Rs)	-	-	-	-	-	-	-	-	-	-	· · -	-	-	1	-	-	-
Total Operating Cost	[MIn Rs]	5,458	5,579	5,754	16,792	3,549	2,727	2,299	8,575	2,437	2,493	2,039	6,969	3,496	4,718	5,133	13,347	45,684
EBIT	[Min Rs]	1,482	1,515	1,562	4,559	964	741	624	2,328	662	677	554	1,892	949	1,281	1,394	3,624	12,404
Financial Charges	(Min Rs)	130	133	137	400	85	65	55	204	58	59	49	166	83	112	122	318	1,088
EBT	[Min Rs]	1,352	1,382	1,425	4,160	879	676	569	2,124	604	618	505	1,726	866	1,169	1,272	3,306	11,317
Тах	[Min Rs]	-	-	-	-	-	-	-		-	-	<u> </u>	•	- 1	-	-	•	-
EAT	[Min Rs]	1,352	1,382	1,425	4,160	879	676	569	2,124	604	618	505	1,726	866	1,169	1,272	3,306	11,317
WPPF	[Min Rs]	-	-	-	· -	-	-	-		· _	-	-	•	-		-		-
Profit for the period	[Min Rs]	1,352	1,382	1,425	4,160	879	676	569	2,124	604	618	505	1,726	866	1,169	1,272	3,306	11,317

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# DF - FORM 4

Trade Debts

Total Assets

Sukok etc.

Deferred Credits

Accrued Mark up

Subscribed Equity

Unappropriated Profit Total Equity

Cash & Bank Balances

Advances, Prepayments, Other Receivables

Tariff Subsidy (Receivable from GoP) Receivable from Associated Companies& Others

**Total Current Assets** 

Long Term Liability

Total Long Term Loan Total Long Term Liability

Current Maturity on Long Term Loans

Creditors, Accrued and Other Liabilities

Total Liabilities and Commitments Total Liabilities and Equity

Total Current Liability

Current Liability

Provision for Taxation & WPPF

Receipt Against Deposit work

Payable to NTDC/CPPA

Security Deposits Employee Retirement Benefits

Power Distribution Business мерсо 1 240 ¢. Balance Sheet [in million Rupees] Projected Projected FY Projected Projected Projected Previous Current FΥ FY FΥ FY FY FY Description as on (B) Year as on June 30, as on June 30, as on June 30, as on June 30, as on June 30. as on June 30, 2025 2019 June 30, 2020 2021 2022 2023 2024 10.102 Intangible Fixed Assets 163,121 163,121 178,774 Net Fixed Assets in Operations Total Net Fixed Assets in Operations 116,390 130,990 147,128 97,990 102,632 178,774 98,000 102,632 116,390 130,990 147,128 18,460 18,783 19,117 15,040 13,694 16,383 10,899 Capital Work in Progress 151 196 251 311 81 81 111 Long Term Loans to Employees 0.05 0.05 Deferred Cost & Long Term Deposits 0.05 0.05 0.05 0.05 0.05 19,035 19,429 16,534 10,980 15,122 13.806 18,656 Current Assets 8,103 6,329 6,265 6,140 6,079 6,687 7,422 Stores & Spares

51,202

94,229

4,779

17,368

174,227

291,980

42,161

10,179

80,583

59,724

8,118

6.032

10,789

1,276

25,803

19,410

218,752

377.356

291,981

155 443

158,604

(127,537) (85,376)

321

29,489

57.165

6,783

10,458

112,348

221,328

42,161

(91,426)

9,180

79,175

57,195

8.811

5.376

9 293

20,723

18,911

158,393

312.755

221,329

104 090

154,362

(133.587)

350

25,978

20.838

80,049

134,016

264,211

35,508

(77,859)

(42,351)

10,688

95,726

65,245

178,885

7.225

6.720

11,862

1,276

26,298

50.802

30,719

127,677

306,562

264,211

886

25,527

20.629

73,014

126,205

273,730

35,508

(81,659)

(46,152)

11,116

110,815

70.500

6,329

7,007

12,186

26.587

39.086

36,255

121,121

319.881

273,730

198,760

895

19,990

20 423

65,887

113,300

279,084

35,508

(83,227)

(47,719)

11,449

125,808

76.125

218,877

5,496

7,054

12,097

26.873

28.839

33,063

107,926

326,804

279,084

921

15.939

21.036

58,664

103.265

285,422

35,508

(82,294)

(46,786)

11,564

140,911

81.448

5,044

6,562

11,627

26,492

20,499

28,061

93,243

332,208

285,422

238,966

940

9 277

23,350

50,888

1 0 1 5

91,953

35,508

(80,087)

(44,579)

11,679

157,287

86,675

260,258

4,617

5,553

10,306

23.046

10,597

24,975

74,476

334,735

290,155

290,155

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# Power Distribution Business

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DM - FORM 5 MEPCO Cashflow Statement [in million Rupees]

	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
	for (T) Year ending	for (T) Year ending	for (T) Year ending	for (T) Year ending	for FY ending June
Description	June 30, 2021	June 30, 2022	June 30, 2023	June 30, 2024	30, 2025
				·	·
Average Monthly Demand Index (MDI) (MW	4,041	4,230	4,443	4,666	4,900
Units Purchased [GW	h] 19,695	20,697	21,110	21,533	21,964
Transmission Losses (132 kV) [GW	h] 271	290	284	280	286
Distribution Losses [GW	h] 2,683	2,763	2,798	2,842	2,877
Units Sold to Customers [GW	h] 16,741	17,644	18,028	18,411	18,801
Average Tariff Required [Rs/	unit] 5.25	1.98	2.23	2.48	2.73
Average Tariff Existing [Rs/	unit]1.65	1.65	1.65	1.65	1.65
Tariff Difference [Rs/	unit] 3.60	0.34	0.59	0.83	1.08
Devery from Color	97.002.99	25 001 19	40.246.65	45 620 00	51 344 88
Revenue from Sales	87,902.88	35,021.18	40,245.65	45,629.00	100.00
	100.00	100.00	100.00	100.00	100.00
Inflows from Operations		···········	1	· · · · · · · · · · · · · · · · · · ·	I
Collection from Current Sales	87 002 88	35 021 18	40 245 65	45 629 00	51 344 88
Drier Vaar Receivery	29 169 23	14 584 62	14 584 62	40,020.00	01,044.00
Total Inflows from Operations	117 072 11	49 605 80	54 830 26	45 629 00	51 344 88
			01,000.20		
Outflow from Operations		· · · · · · · · · ·		r <u>-</u>	
Payment for electricity (to CPPA)	-	-	-	-	-
Distribution Service Cost (=DMC)	21,921 88	25,767.07	29,219.79	29,865.11	33,934.54
Total Outflow from Operations	21,921.88	25,767.07	29,219.79	29,865.11	33,934.
Surplus/Deficit from Operations	95,150.23	23,838.73	25,610.47	15,763.89	17,410.34
Inflows from Other Sources					
Capital Contributions	6,000.00	- 5,598.02	5,979.25	6,338.00	6,718.29
Consumer Security Deposits	3,228.00	3,452.00	3.769.00	2,760.00	2,828.00
Other Incomes	2,036.39	1,931,98	2.039.37	2,154.62	2,264.33
GOP Subsidy (Actual and Estimated)				·	
Long Term Loan / Redeemable Capital			(1 707 00	44.050.00	44.040.62
Total Inflows from Other Sources	11,264.39	10,982.00	11,787.62	11,252.62	11,810.02
		r	· · · ·		
Einappiel Charges	2 002 92	1 734 67	1 490 84	1,266.49	1.087.87
Penavment of Long Term Loans	2,302.32	608.28	786.71	944.05	1,434.95
Repayment Or Long Term Coans	18 139 66	23 714 28	25.412.34	24,305,22	24,779,92
Working Capital / Other Changes	102,549,40	8,754,64	9.681.37	482.33	1,843.02
Total Outflow Others	122,896.78	34,811.87	37,371.25	26,998.09	29,145.76
		• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·		
Surplus/Deficit Others	(111,632.39)	(23,829.87)	(25,583.63)	(15,745.46)	(17,335.15)
	· · _ · _ · _ · · · · · · · ·	······			
Total Inflows (Operations + Others)	128,336.50	60,587.80	66,617 89	56,881.62	63,155.50
	<u>-,k</u>	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
Total Outflows (Operations + Others)	144,818.66	60,578.94	66,591.05	56,863.20	63,080.31
/		h <u>a an an</u>	· · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Opening Balance	17,367.93	885.76	894.62	921.46	939.89
Surplus / Deficit for Fiscal Year	(16.482.16)	8.86	26.84	18.43	75.19
Deficit from Financing / Loans	(12, 72				1
Clasing Balance	885.76	894.62	921.46	939.89	1.015.0



## FORM - 6 MEPCO

### This Format Relates to Power Supply Business

Power Distribution Business

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Power Purchase - Actual (F-Year 2018-19)

		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Total
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
Demand & Energy														
Units Received	[MkWh]	2,369	2,486	2,172	1.531	1,068	1,034	1,010	852	1,096	1,540	2,037	2,170	19,367
MDI	[MVV]	4,691	4,596	4,693	4,321	3,466	3,306	3,266	2,885	3,525	3,982	4,249	4,491	3,956
Energy Purchase Price	[Rs/ kWh]						1							-
Capacity Purchase Price	[Rs/ kW/ M]													-
Transmission Charge	[Rs/ kW/ M]													-
Market Operator Fee	[Rs/ kW/ M]				÷.,				•					
						÷								
Power Purchase Cost														
Energy Charge	[Min Rs]	-	-	-	-		· · · ·	-	-	· _	"		-	-
Capacity Charge	[Min Rs]	-	-	-	-	- "1				· -	-	-	-	-
Transmission Charge	(Min Rs)		-	-		-		· _		-	· -		-	
Market Operator Fee	[Min Rs]	-		-	-	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	•	-	- 1	· _	·		-	
Total Power Purchase Cost	[Min Rs]	· -	-	-	-	-	1 - 1 - 1 - 1	-		· · ·	-	-	-	

## FORM - 6 ( A) MEPCO

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Power Purchase (Actual	F.Y. 2019-20)				- 1 · · · ·									
$\mathbb{E}_{\mathcal{A}} = \mathbb{E}_{\mathcal{A}} $	w.z.	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Aonth 9	Month 10	Month 11	Ionth 12	Total
Demand & Energy														
Units Received	[MkWh]	2,465	2,482	2,359	1,430	1,010	944	920	929	894	1,474	2,129	2,290	19,325
MDI ·	[MW]	4,851	4,696	4,891	3,899	3,090	2,957	2,609	2,968	2,800	3,990	4,443	4,689	3,824
Energy Purchase Price	[Rs/ kWh]												÷	
Capacity Purchase Price	[Rs/ kW/ M]								1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -					-
Transmission Charge	[Rs/ kW/ M]													-
Market Operator Fee	[Rs/ kW/ M]											•		
		-	-	-		· -		· -	-	-	-	-	-	
Power Purchase Cost														
Energy Charge	(Min Rs)			-	-		-	-	-		-		-	-
Capacity Charge	[MIn Rs]	-	-		-	- 1	-	-	· · · ·	-	-	· -	-	-
Transmission Charge	[MIn Rs]	-	-	-	-		-		4 1.	-	-	-	-	
Market Operator Fee	[Min Rs]	-	-		-	· _	, -	-	-			-		
Total Power Purchase Cost	[Min Rs]	-	-	-		-			-	<u> </u>	1. L			-

### FORM - 6 (B) MEPCO

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Power Purchase (Projec	cted F.Y. 2020-21)	Month 1	Month 2:	Month 3	Month 4	Aonth 5	Month 6	ionth 7	Month 8	Aonth 9 🔗 🕺	Aonth 10, . M	ontli 11 👘 🕺	Ionth 12	Total
Demand & Energy	n de sense en altra de la companya de la companya		a on provinci a specific mene energi					200 - 1999 - 1999 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 -						
Units Received	[MkWh]	2,483	2,648	2,182	1,599	1,003	972	939	947	912	1,503	2,171	2,336	19,695
MDI	(MVV)	5,057	4,837	4,705	4,198	3,406	3,645	2,710	3,180	2,970	4,200	4,660	4,920	4,041
Energy Purchase Price	[Rs/ kWh]								1					-
Capacity Purchase Price	[Rs/ kW/ M]							•						-
Transmission Charge	[Rs/ kW/ M]													-
Market Operator Fee	[Rs/ kW/ M]													<b>.</b>
											· · ·			
Power Purchase Cost														
Energy Charge	(Min Rs)	-	-	<u>-</u>		-	· ·	-	· · · ·	· -	- ,	÷ 2	-	
Capacity Charge	(Min Rs)	-	-	-	-				-	-	-		-	-
Transmission Charge	[Min Rs]	-	-	-	<b>-</b> 1			-	· ·	-	-	· • ·	•	-
Market Operator Fee	(Min Rs)	-	-	-	-		-	•	-		-		-	<b>-</b>
Total Power Purchase Cost	(Min Rs)	•	-		·-		-	- '	•	•	-	•	-	-

### FORM - 6 (C) MEPCO

Power Purchase (Project	ted F.Y. 2021-22)	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Nonth 10	Month 11	Month 12	. Total .
Demand & Energy														
Units Received	[MkWh]	2,640	2,658	2,526	1,531	1,081	1,012	986	.994	957	1,578	2,280	2,452	20,697
MDI	[MVV]	5,210	5,070	4,940	4,420	3,570	3,830	2,830	3,300	3,120	4,410	4,890	5,170	4,230
Energy Purchase Price	[Rs/ kWh]													-
Capacity Purchase Price	[Rs/ kW/ M]						•						· · · ·	-
Transmission Charge	[Rs/ kW/ M]										-			
Market Operator Fee	(Rs/ kW/ M)						р. с.		· · ·					
							1							
Power Purchase Cost														
Energy Charge	[Min Rs]	-	-			-		-		-	-	-	-	
Capacity Charge	[Min Rs]	-	-	-	-		-	-	·	-	-	-		-
Transmission Charge	[Min Rs]	-	- -		-	-	- -	- 1	- <u>-</u> ,	-			-	· -
Market Operator Fee	[Min Rs]	-	-	~	-	-		-	- ``	-	-	-	-	
Total Power Purchase Cost	[Min Rs]	-	-	-	-	-	-	-	-		- 1		-	

# FORM - 6 (D) MEPCO

Power Purchase (Project	ted F.Y. 2022-23)	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7 👬 🐷	Month 8. Sales	Month 9	Nonth 10	Month 11	Month 12	Total
Demand & Energy														
Units Received	[MkWh]	2,693	2,711	2,577	1,562	1,102	1,032	1,005	1,014	977	1.610	2.325	2.501	21.110
MDI	[MW]	5,470	5,320	5,180	4,630	3,760	4,020	2,980	3,500	3,270	4.630	5.130	5,420	4.443
Energy Purchase Price	[Rs/ kWh]												.,	
Capacity Purchase Price	[Rs/ kW/ M]													-
Transmission Charge	[Rs/ kW/ M]													-
Market Operator Fee	[Rs/ kW/ M]												·	
Power Purchase Cost														
Energy Charge	(Min Rs)	-	· ·	-	-	-	-	-		_		-		
Capacity Charge	(Min Rs)	-	-	-	-	-	-	-	-	-		-		
Transmission Charge	[Min Rs]	-	-	-	-	-	-	-	-	<u>.</u>	-		•	_
Market Operator Fee	[MIn Rs]	-		-	-			-	-		-	-	_	
Total Power Purchase Cost	(Min Rs)	-	-	-	-	-	-		-	-	-		-	-

## FORM - 6 (E) MEPCO

Power Purchase	(Projected F.Y. 2023-24)

		Month 1	Month 2.	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Total
Demand & Energy														
Units Received	[MkWh]	2,747	2,765	2,628	1,593	1,125	1,052	1,026	1,035	996	1.642	2.372	2.551	21.533
MDI	[MW]	5,740	5,590	5,440	4,860	3,940	4,230	3,130	3,680	3,440	4,860	5.390	5.690	4.666
Energy Purchase Price	[Rs/ kWh]												-,	.,
Capacity Purchase Price	[Rs/ kW/ M]													
Transmission Charge	[Rs/ kW/ M]													
Market Operator Fee	[R\$/ kW/ M]													-
Power Purchase Cost														
Energy Charge	[Min Rs]	-	-	-	-	-	-	-	- 1	-	· _		-	
Capacity Charge	[Min Rs]	-	-	-	· -	-	-	-	<u> </u>	-	_			
Transmission Charge	(Min Rs)	-	-		-		-	-	-	_				
Market Operator Fee	[Min Rs]	-	-	-	-	-	-	-	-	-	_			
Total Power Purchase Cost	(Min Rs)	-	-										-	-

# FORM - 6 (F) MEPCO

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Power Purchase (Project	ted F.Y. 2024-25)	Month 1	Month 2 🚛	Month 3	Month 4 🖓 🛼	Month 5-22.24	Month 6	Month 7	Month 8	Month 9 <sub>555</sub> 3	Yonth 10	Month 11	Vonth 12	
Demand & Energy														
Units Received	[MkWh]	2,802	2,821	2,681	1,625	1,148	1,073	1,046	1,055	1,016	1,675	2,419	2,602	21,964
MDI	[MVV]	6,020	5,870	5,720	5,110	4,140	4,430	3,290	3,870	3,610	5,100	5,660	5,980	4,900
Energy Purchase Price	(Rs/ kWh)													•
Capacity Purchase Price	[Rs/ kW/ M]													-
Transmission Charge	[Rs/ kW/ M]													•
Market Operator Fee	(Rs/ kW/ M)												·	-
Power Purchase Cost														
Energy Charge	[Min Rs]	-	-	-	-	-	-	-	-		-	-	-	•
Capacity Charge	(Min Rs)	-	-	-	-	-		-	-		-	-	-	-
Transmission Charge	[Min Rs]	-		-	-	-	-	-	-	-	-	-	-	
Market Operator Fee	[Min Rs]	-	-	-	-	-	-	-	-	÷.	-	-	-	
Total Power Purchase Cost	(MIn Rs)	-	-	-	-		-	-	-	• `	-		-	•



# DF - FORM 7

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# MEPCO

Line Losses (F.Y. 2018-19)

		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Total
		Actual	Actual	Actual	2.2.1.1.2.1.0.1.1.1.1.1.1.1.1.1.1.1.1.1.									
Power Balances														
Units Received	[MkWh]	2,369	2,486	2,172	1,531	1,068	1,034	1,010	852	1,096	1,540	2,037	2,170	19,367
Units Sold	[MkWh]	1,853	1,975	1,893	1,344	1,026	891	950	824	900	1,312	1,612	1,730	16,310
Units Lost	[MkWh]	516	511	280	187	42	143	60	28	196	228	425	440	3,057
Units Lost	[%age]	21,79	20.56	12.87	12.22	3.90	13.87	5.94	3.33	17.85	14.80	20.88	20.29	15.79
Technical Losses	[%age]	21.79	20.56	12.87	12.22	3.90	13.87	5.94	3.33	17.85	14.80	20.88	20.29	15.79
Administrative Losses	(%age)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Technical Losses at Different Lev	els													
Transmission Losses 132 kV	[%age]	2.33	2.76	2.40	1.61	1.18	2.02	2.12	0.07	-0.04	1.12	1.66	2.13	1.82
11 kV Losses Including LT Losses	[%age]	19.46	17.80	10.47	10.61	2.71	11.85	3.82	3.26	17.89	13.68	19.22	18.17	13.96
LT Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Technical Losses	[%age}	21.79	20.56	12.87	12.22	3.90	13.87	5.94	3.33	17.85	14.80	20.88	20.29	15.79

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Power Distribution Business

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# FORM - 7 (A) MEPCO Line Losses (Actual T. Year, 2019-20)

LINE LUSSES (Actual 1. real.	2019-20)	/	Construction of the Construction of the Construction											
	a the second	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Total
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	
Power Balances														
Units Received	[MkWh]	2,465	2,482	2,359	1,430	1,010	944	920	929	894	1,474	2,129	2,290	19,325
Units Sold	[WkWh]	1,952	1,997	2,066	1,275	983	825	878	898	730	1,254	1,688	1,837	16,382
Units Lost	[MkWh]	513	485	293	155	27	119	43	31	164	220	441	453	2,943
Units Lost	[%age]	20.81	19.54	. 12.42	10.83	2.69	12.62	4.64	3.29	18.32	14.91	20.72	19.78	15.23
Technical Losses	[%age]	20.81	19.54	12.42	10.83	2.69	12.62	4.64	3.29	18.32	14.91	20.72	19.78	15.23
Administrative Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Technical Losses at Different Lev	vels													
Transmission Losses 132 kV	[%age]	2.20	2.26	2.04	1.18	1.15	1.08	1.00	0.07	0.00	0.54	1.64	1.85	1.51
11 kV Losses Including LT Losses	[%age]	18.61	17.28	10.38	9.66	1.54	11.53	3.65	3.22	18.32	14.37	19.08	17.93	13.72
LT Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Technical Losses	[%age]	20.81	19.54	12.42	10.83	2.69	12.62	4.64	3.29	18.32	14.91	20.72	19.78	15.23

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# FORM - 7 (B) MEPCO

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Line Losses \* (Projected F.Y. 2020-21)

	en de la companya de	Month 1	Month 2.	Month 3	Month 4, .	Month 5	, Month 6 🕁	Month 7	Month 8	Month 9	Month 10	Month 11.	Month 12	Total
		Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	
Power Balances														
Units Received	[MkWh]	2,483	2,648	2,182	1,599	1,003	972	939	947	912	1,503	2,171	2,336	19,695
Units Sold	[MkWh]	2,000	2,045	2,109	1,301	999	842	893	913	747	1,281	1,729	1,881	16,74 <b>1</b>
Units Lost	[MkWh]	483	604	73	298	4	130	. 46	34	165	222	442	455	2,954
Units Lost	[%age]	19.45	22.80	3.35	18.67	0.37	13.34	4.86	3.54	18.06	14.77	20.37	19.46	15.00
Technical Losses	[%age]	19.45	22.80	3.35	18.67	0.37	13.34	. 4.86	3.54	18.06	14.77	20.37	19.46	15.00
Administrative Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		-	-	-	-	-	-	-	- ``	-	-	-	-	0.00%
Technical Losses at Different Lev	els	-	-	-	-	-	-	-		-	· -	- '	-	0.00%
Transmission Losses 132 kV	(%age)	0.89	6.51	-8.13	9.82	-1.58	1.96	0.93	0.11	-0.02	0.53	1.58	1.78	1.37
11 kV Losses Including LT Losses	[%age]	18.56	16.29	11.48	8.85	1.95	11.38	3.92	3.43	18.08	14.23	18.79	17.68	13.63
LT Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Technical Losses	[%age]	19.45	22.80	3.35	18.67	0.37	13.34	4.86	3.54	18.06	14.77	20.37	19.46	15.00

# FORM - 7 (C) MEPCO

# MEPCO Line Losses \* (Projected F.Y. 2021-22)

		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Total
	anna a shini ka na sa sa sa saya na 1979 ay 1970 ay 1	Projected												
Power Balances														
Units Received	[MkWh]	2,640	2,658	2,526	1,531	1,081	1,012	986	994	957	1,578	2,280	2,452	20,697
Units Sold	[MkWh]	2,108	2,155	2,222	1,371	1,053	888	941	963	787	1,350	1,822	1,983	17,644
Units Lost	[MkWh]	532	503	304	161	28	124	44	32	170	228	458	470	3,053
Units Lost	[%age]	20.16	18.93	12.03	10.49	2.60	12.22	4.50	3.18	17.75	14.45	20.07	19.16	14.75
Technical Losses	[%age]	20.16	18.93	12.03	10.49	2.60	12.22	4.50	3.18	17.75	14.45	20.07	19.16	14.75
Administrative Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Technical Losses at Different Leve	els													
Transmission Losses 132 kV	[%age]	2.06	2.11	1.91	1.07	1.06	1.04	0.88	0.04	-0.06	0.45	1.53	1.73	1.40
11 kV Losses Including LT Losses	[%age]	18.10	16.82	10.12	9.42	1.54	11.18	3.62	3.14	17.81	13.99	18.54	17.43	13.35
LT Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.0.00	0.00
Total Technical Losses	[%age]	20.16	18.93	12.03	10.49	2.60	12.22	4.50	3.18	17.75	14.45	20.07	19.16	14.75

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# FORM - 7 (D) MEPCO

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\_\_\_\_  Line Losses \* (Projected F.Y. 2022-23)

	and the second	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	; Month 8	Month 9	Month 10	Month 11	Month 12	Total
		Projected												
Power Balances												1 		
Units Received	[MkWh]	2,693	2,711	2,577	1,562	1,102	1,032	1,005	1,014	977	1,610	2,325	2,501	21,110
Units Sold	[MkWh]	2,154	2,202	2,271	1,401	1,076	907	962	984	805	1,380	1,862	2,026	18,028
Units Lost	[MkWh]	539	509	306	161	26	125	44	31	172	230	463	476	3,081
Units Lost	[%age]	20.02	18.79	11.87	10.34	2.34	12.07	4.33	3.01	17.60	. 14.29	19.93	19.02	14.60
Technical Losses	[%age]	20.02	18.79	11.87	10.34	2.34	12.07	4.33	3.01	17.60	14.29	19.93	19.02	14.60
Administrative Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Technical Losses at Different Leve	els													·
Transmission Losses 132 kV	[%age]	2.01	2.07	1.85	1.03	0.92	0.94	0.84	-0.07	-0.15	0.42	1.50	1.68	1.34
11 KV Losses Including LT Losses	[%age]	18.01	16.71	10.02	9.31	1.42	11.12	3.49	3.08	17.75	13.88	18,43	17.34	13.25
LT Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	. 0.00	0.00	0.00	0.00
Total Technical Losses	[%age]	20.02	18.79	11.87	10.34	2.34	12.07	4.33	3.01	17.60	14.29	19.93	19.02	14.60

FORM - 7 (E)

MEPCO		
Line Losses *	(Projected F.Y.	2023-24)

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		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7.	Month 8	Month 9	Month 10	Month 11	Month 12	Total
		Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	
Power Balances														
Units Received	[MkWh]	2,747	2,765	2,628	1,593	1,125	1,052	1,026	1,035	996	1,642	2,372	2,551	21,533
Units Sold	[MkWh]	2,200	2,249	2,319	1,430	1,099	926	982	1,005	822	1,409	1,901	2,069	18,411
Units Lost	[MkWh]	547	517	309	163	26	126	43	30	174	233	470	483	3,122
Units Lost	[%age]	19.92	18.69	11.77	10.23	2.31	11.97	4.22	2.89	17.51	14.19	19.83	18.92	14.50
Technical Losses	(%age)	19.92	18.69	11.77	10.23	2.31	11.97	4.22	2.89	17.51	14.19	19.83	18.92	14.50
Administrative Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	- 0.00	0.00	0.00
														•
Technical Losses at Different Lev	/els													
Transmission Losses 132 kV	[%age]	1.97	2.04	1.80	0.96	0.99	0.89	0.83	-0.14	-0.19	0.36	1.43	1.62	1.30
11 kV Losses Including LT Losses	[%age]	17.96	16.65	9.97	9.27	1.32	11.07	3.39	3.03	17.70	13.83	18.40	17.30	13.20
LT Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Technical Losses	[%age]	- 19.92	18.69	11.77	10.23	2.31	11.97	4.22	2.89	17.51	14.19	19.83	18.92	14.50

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FORM - 7 (F) MEPCO Line Losses \* (Projected F.Y. 2024-25)

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		Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Total
an tha an ta h-Bann panning aga baba di ka 19 ang baga ka kan ta 19 ang baba ta 19 ang baga ta 19 ta 19 ang bab		Projected												
Power Balances											÷.			
Units Received	[MkWh]	2,802	2,821	2,681	1,625	1,148	1,073	1,046	1,055	1,016	1,675	2,419	2,602	21,964
Units Sold	[MkWh]	2,246	2,296	2,368	1,461	1,122	946	1,003	1,026	839	1,439	1,942	2,113	18,801
Units Lost	[MkWh]	556	525	313	165	25	127	43	29	177	236	478	490	3,163
Units Lost	[%age]	19.83	18.59	11.67	10.13	2.20	11.86	4.11	2.78	17.41	14.09	19.74	18.83	14.40
Technical Losses	[%age]	19.83	18.59	11.67	10.13	2.20	11.86	4.11	2.78	17.41	14.09	19.74	18.83	14.40
Administrative Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Technical League at Different Lea														
Technical Losses at Different Lev	reis				1.00	2.00	0.00	0.77	0.07	0.20	0.34	1 14	1.65	1 30
Transmission Losses 132 kV	[%age]	1.96	2.01	1.82	1.00	0.93	0.88	0.77	-0.07	-0.20	0.54	. 1,44	1.00	1.50
11 kV Losses Including LT Losses	[%age]	17.87	16.59	9.85	9.13	1.27	10.98	3.34	2.85	17.61	13.75	18.30	17.17	13.10
LT Losses	[%age]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Technical Losses	[%age]	19.83	18.59	11.67	10.13	2.20	11.86	4.11	, 2.78	17.41	14.09	19.74	18.83	14.40
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

# DF - FORM 8 MEPCO

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DF - FORM 8 MEPCO Operational and Technical Information					Power Distr	ibution Busi	ness 🖓
	2018-19 (Actual)	2019-20 (Actua!)	2020-21 (Projected)	2021-22 (Projected)	2022-23 (Projected)	2023-24 (Projected)	2024-25 (Projected)
DISCO load factors on yearly basis						·	
NTDC/DISCO Delivery Points metering accuracy	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
DISCO metering accuracy For all customers (residential, commercial, industrial, etc.)	98%	96%	99.0%	99.2%	99.5%	99.5%	100%
Estimated High Voltage Transmission lines losses (132 kV)	1.82	1.51	1.37	1.40	1.34	1.30	1.30

This format relates to Power Supply Business DF - FORM 9 MEPCO	· · · · ·	Proiec	Power Distribution Business ted FY 2020-21	Q
Average Rate per Unit Purchased and Sold		,		•
- Weighted Average Cost per Unit Sold to Custome	rs			
10.01 Use of System Charges (NTDC)				
10.02 Estimated Average Rate	(Table 11 - 11.16)	(Rs/kW/Month)		
10.03 Estimated Maximum Demand Indicator (MDI)	(Table 11 - 11,17)	[NW]		
10.04 Number of Months (Fiscal Year)		[#]	12	
10.05 Estimated Use of System Charges = (10.02 x 10.03 x 10.04)		[,000,000 Rs]		
10.06 <u>Fixed/Capacity Charge</u>				
10.07 Estimated Average Rate	(Table 11 - 11.33)	[Rs/kW/Month]		
10.08 Estimated MDI	Form 6 ( A)	[MW]	-	
10.09 Number of Months (Fiscal Year)		[#]	12	
10.10 Estimated Capacity Charge = (10.07 x 10.08 x 10.09)		(,000,000 Rs)		
10.11 Energy Charge				
10.12 Estimated Average Energy Charge	(Table 11 - 11.33)	{Rs/kWh}	-	
10.13 Estimated Energy Purchase for Fiscal Year		(GWh)	<u> </u>	
10.14 Estimated Energy Charges = (10.12 x 10.13)		(,000 000 Rs)	•	
10.15 Estimated Power Purchase Price = (10.05 + 10.10 + 10.14)		[,000,000 Rs]		
10.16 Average Rate per Unit Purchased = (10.15 / 10.13)		[Rs/kWh]	0.0000	
10.17 Estimated Energy Sold/ Wheeled		[GWh]	16,741	
10.18 Average Energy Rate per Unit Sold = (10.15 / 10.17)		[ Rs/kWh ]		
10,19 Distribution Margin	· .	[,000,000 Rs]	29,564	
10.20 Distribution Margin per Unit Sold/ Wheeld = (10.19 / 10.17)		[Rs/kWh]	1,7660	
10.21 Total Cost per Unit Sold/Wheeled to Customers = (10.20 + 10.15)		[Rs/kWh]	1.7660	
10.22 Estimated Revenue from Energy Sold/Wheeled (10.15 + 10.19)		[,000,000 Rs]	29,564	
10.23 Prior Feriod Adjustement (Uncovered Costs)	· · · · ·	[,000,000 Rs]	58,338	
10.24 Required Estimated Revenue from Energy Soid/Wheeled (10.22 + 10.23)		(.C00,000 Rs)	87,903	

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FORM - 9 ( A ) Table 11 - CPPA Charges: Use of System, Capacity and Energy

11.01 Use of System Charges (NTDC)

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11.02	Month 1	Year 2	Demand [kW] 3	Fixed Use of System Rate [Rs/kW] 4	Fixed Use of System Chaiges ( Rs) 5 = 3 x 4	Energy [kWh] 6	MoF [Rs/kWh] 7	MoF (Rs) 8 = 3 x 7	Sum Use of System Charges [ Rs] 9=5+8
11 04	Jul	16		174.699	-		1.46 1	•.	-
11.05	Aug	16		174.699			1,461		•
11.06	Sep	16		174.699			1.461		-
11.07	Oct	16		174,699	-		1.461	-	•
1.08	Nov	16		174,699	-		1,461	-	•
1.09	Dec	. 16		174.699	-		1.461	•	•
1.10	Jan	17		174,260	-		1,461	-	•
11.11	Feb	17		168.903	-		1.451	-	-
11.12	Mar	17		170.618	-		1.461	•	-
11.13	Apr	17		171,962	-		1,451	•	-
11.14	May	17		172.549	-		1.451	-	•
11.15	Jun	17		172.515	· · ·		1.461	·	
11.16 11.17	Avg per m	ionth [MW] _					-		
1.18 <u>Ca</u>	pacity and Energy	ЯY							
1.18 <u>Ca</u>	pacity and Energy	ЧУ					Capacity		
1.18 <u>C</u> a	pacity and Energ	ч	Capacity Charge	Energy Charge	Sum of all Charges	Use Of System Rate per kWh	Capacity Rate per kWh	Energy Rate per kWh	Final Pate per kWh
1.18 <u>Ca</u>	pacity and Energy	Ч	Capacity Charge	Energy Charge	Sum of all Charges	Use Of System Rate per kWh	Capacity Bate per kWh { Rs/kWh	Energy Rate per kWh	Final Pate per kWh
1.18 <u>Ca</u> 1.19	p <u>acity and Ener</u> d Month	<b>яу</b> Year	Capatity Charge [Rs]	Energy Charge [Rs]	Sum of all Charges [Rs]	Use Of System Rate per kWh [ Rs/kWh ]	Capacity Bate per kWh { Rs/kWh } 15 = 11 /	Energy Rate per kWh [ Rs/kWh ]	Final Pate per kWh { Rs/kWh }
1.18 <u>Ca</u> 1.19 1.20	p <u>acity and Ener</u> Month	чу Year 2	Capacity Charge [Rs]	Energy Charge [Rs] 12	Sum of all Charges [Rs] 13 = 9+11+12	Use Of System Rate per kWh [Rs/kWh ] 14 = 9 / 6	Capacity Bate per kWh { Rs/kWh } 15 = 11 / 6	Energy Rate per KWh [Rs/kWh ] 16 = 12 / 3	Final Pate per kWh [ Rs/kWh ] 17 = 13 / 6
1.18 <u>Ca</u> 1.19 1.20	p <u>acity and Ener</u> Month <u>1</u> Jul	үеаг 2 16	Capacity Charge [Rs] 11. 12.918,114.381	Energy Charge (Rs) 12 9,219,825,417	Sum of all Charges [Rs] 13 = 9+11+12 22, 137, 939, 798	Use Of System Rate per kWh [ Rs/kWh } 14 = 9 / 6	Capacity Bate per kWh {Rs/kwh ] 15 = 11 / 6	Energy Rate per kWh [Rs/kWh] 16 ≃ 12 / 3	Final Rate per kWh [ Rs/kWh ] 17 = 13 / 6
1.18 <u>Ca</u> 1.19 1.20 <u>1.21</u> 1.22	pacity and Enerr Month 1 Jul Aug	עק Year 2 16 16	Capacity Charge [Rs] 11, 12,918,114,381 17,220,609,184	Energy Charge [Rs] 12 9,219,825,417 11,451,760,195	Sum of all Charges [Rs] 13 = 9-11+12 28,681,569,379	Use Of System Rate per kWh [ Rs/kWh } 14 = 9 / 6	Capacity Bate per kVVh {Rs/kWh 1 15 = 11 / 6	Energy Rate per kWh [Rs/kWh] 16 ≃ 12 / 3	Final Rate per kWh { Rs/kWh } 17 = 13 / 6
1.18 <u>Ca</u> 1.19 1.20 <u>1.21</u> 1.22 1.23	Month 1 Jul Aug Sep	Year 2 16 16 16	Capacity Charge [Rs] 11, 12,918,114,381 17,220,809,184 11,940,719,963	Energy Charge [Rs] 9,219,825,417 11,451,760,195 9,447,227,954	Sum of all Charges [Rs] 13 = 9+11+12 22,137,938,798 28,681,569,379 21,388,011,917	Use Of System Rate per kWh [Rs/kWh } 14 = 9 / 6	Capacity Bate per kWh { Rs/kWh 1 15 = 11 / 6	Energy Rate per kWh [Rs/kWh] 16 ≃ 12 / 3	Final Rate per kWh { Rs/kWh } 17 = 13 / 6
1.18 <u>Ca</u> 1.19 1.20 <u>1.21</u> 1.22 1.23 1.24	Month 1 Jul Aug Sep Oct	Year 2 16 16 16 16	Capabity Charge [Rs] 12,918,114,981 17,229,809,184 11,940,713,963 9,979,646,042	Energy Charge [Rs] 9,219,825,417 11,451,760,195 9,447,297,954 6,527,748,249	Sum of all Charges [R5] 22,137,939,768 28,681,569,379 21,388,011,917 16,325,394,291	Use Of System Rate per kWh [Rs/kWh ] 14 = 9 / 6	Capacity Bate per kWh {Rs/kWh } 15 = 11 / 6	Energy Rate per kWh [Rs/kWh] 16 ≃ 12/3	Final Rate per KWh ( Re/KWh ) 17 = 13 / 6
1.18 <u>Ca</u> 1.19 1.20 <u>1.21</u> 1.23 1.24 1.25	Month 1 Jul Aug Sep Oct Nov	Year 2 16 16 16 16 16 16	Capabily Charge [Ps] 11 12,918,114,381 17,229,800,184 11,940,713,963 9,797,646,042 10,232,392,395	Energy Charge 12 9,219,825,417 11,451,760,195 9,447,297,954 6,527,748,249 3,576,278,534	Sum of all Charges [Rs] 23 = 9+11+12 22, 137, 932, 798 28, 661, 569, 379 21, 388, 011, 917 16, 525, 394, 291 13, 810, 670, 929	Use Of System Rate per kWh [Rs/kWh } 14 = 9 / 6	Capacity Bate per kVVh [ Rs/kWh ] 15 = 11 / 6	Energy Raie perkWh [Rs/kWh] 16 ≃ 12/j	Final Pate per kWh ( Ro/kWh ) 17 = 13 / 6
1.18 <u>Ca</u> 1.19 1.20 <u>1.21</u> 1.22 1.23 1.24 1.25 1.26	Month Jul Aug Sep Oct Nov Dec	Year 2 16 16 16 16 16 16 16	Capabily Charge [Rs] 12,918,114,381 17,229,809,184 11,940,713,963 9,797,646,042 9,816,358,255	Energy Charge [Rs] 12 9,219,825,417 11,451,750,195 9,447,279,954 6,527,749,249 3,578,278,534 5,175,916,625	Sum of all Charges [Rs] 13 = 9+11+12 22, 137, 939, 798 28, 681, 569, 379 21, 386, 611, 917 16, 325, 394, 291 13, 810, 670, 929 14, 792, 274, 881	Use Of System Rate per kWh [RskWh ] 14 = 9 / 6	Capacity Bate per kWh {Rs/kWh ] 15 = 11 / 6	. Energy Rate per kWh [RsikWh] 16 ≈ 12/j	Final Rate per KWh ( Rs/kWh ) 17 = 1376
1.18 <u>Ca</u> 1.19 1.20 <u>1.21</u> 1.22 1.23 1.24 1.25 1.26 1.27	Month 1 Jul Aug Sep Oct Nov Dec Jan	Year 2 16 16 16 16 16 16 16 16 17	Capacity Charge [Ps] 11 12,918,114,381 17,220,609,184 11,940,713,963 9,797,646,642 10,232,392,395 9,616,358,255 9,381,277,492	Energy Charge 12 9,219,825,417 11,451,760,195 9,447,297,954 6,527,748,249 3,578,278,534 5,175,916,625 6,175,946,517	Sum of all Charges [Rs] 23 = 9-11+12 22,137,932,798 28,681,569,379 21,388,011,917 16,325,394,291 13,810,670,929 14,792,274,881 15,560,224,009	Use Of System Rate per kWh [Rs/kWh ] 14 = 9 / 6	Capacity Rate per kWh { Re/KWh ] 15 = 11 / 6	Energy Rate per kWh [Rs/kWh] 16 ≃ 12 / š	Final Pate per kWh ( Ro/kWh ) 17 = 13 / 6
1.18 <u>Ca</u> 1.19 1.20 <u>1.21</u> 1.22 <u>1.23</u> 1.24 1.25 1.26 1.27 1.28	Month 1 Jul Aug Sep Oct Dec Jan Feb	Year 2 16 16 16 16 16 16 16 16 17 7	Capabily Charge [Rs] 11 12,918,114,381 17,220,809,184 11,940,713,963 9,977,646,042 10,232,392,395 9,616,352,255 9,381,277,492	Energy Charge [Rs] 12 9,219,825,417 11,451,760,195 9,447,237,954 6,527,749,249 3,578,279,554 5,175,946,562 6,175,946,517 4,714,218,422	Sum of all Charges [R5] 13 = 9+11+12 22, 137, 939, 798 28, 681, 569, 379 21, 938, 01, 917 16, 325, 394, 291 13, 810, 570, 929 14, 792, 274, 881 15, 560, 224, 009 15, 281, 833, 199	Use Of System Rate per kWih [RsAkWh] 14 = 9 / 6	Capacity Pate per kV9h { R5/kVh 15 = 11 / 6	. Energy Raie per KWh [Rs/kWh   16 ≃ 12/3	Final Rate per KWh ( Ro/kWh ) 17 = 1376
1.18 <u>Ca</u> 1.19 1.20 <u>1.21</u> 1.22 <u>1.23</u> 1.24 1.25 1.26 1.27 1.28 1.29	Month 1 Jul Aug Sep Oct Nov Dec Jan Feb Mar	Year 2 16 16 16 16 16 16 16 17 17	Capabity Charge [Fs] 11 12.918.114.381 17,220.800,184 11,940,713.963 9,970,546,042 10,232.392.395 9,816,358,255 9,381,277,492 10,667,614,777 8,672,122,729	Energy Charge 12 9.219,825,417 11,451,760,195 9,447,297,954 6,527,748,249 3,578,274,534 5,175,916,525 6,178,946,517 4,714,218,422 4,687,210,775	Sum of all Charges [R5] 22,137,939,798 29,661,569,379 21,389,011,917 16,325,394,291 13,810,670,929 14,792,274,881 15,560,224,009 15,281,833,199 13,859,333,504	Use Of System Rate per kWh [Rs/kWh } 14 = 9 / 6	Capacity Bate per kvVh { Rs/kwh ] 15 = 11 / 6	. Energy Rate per kWh [Rs/kWh] 16 ≈ 12/ý	Final Rate per kWh ( Rs/kWh ) 17 = 1376
11.18 <u>Ca</u> 11.19 11.20 11.21 11.22 11.23 11.24 11.25 11.26 11.27 11.29 11.30	Month Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr	Year 2 16 16 16 16 16 16 16 16 17 17 17	Capestly Charge [Rs] 11 12,918,114,381 17,220,809,184 11,940,713,963 9,97,646,042 10,232,392,395 9,816,358,255 9,816,358,255 10,567,614,777 8,972,122,729 11,476,139,287	Energy Charge [Rs] 12 9,219,825,417 11,451,760,195 9,447,237,954 6,527,749,249 3,578,277,853 4,5175,916,625 6,178,946,517 4,714,218,422 4,687,210,775 7,896,6572,493	Sum of all Charges [R5] 13 = 9+11+12 22, 137, 932, 798 28, 681, 569, 379 21, 388, 681, 569, 379 21, 388, 607, 929 14, 792, 274, 881 15, 560, 224, 009 15, 281, 833, 199 13, 559, 333, 519 13, 559, 333, 517, 780	Use Of System Rate per kWh [Rs/kWh ] 14 = 9 / 6	Capacity Rate per kvVh { Rs/kvVh } 15 = 11 / 6	. Energy Rate per KWh [Rs/kWh] 16 ≃ 12/j	Final Rate per KWh ( Ra/kWh ) 17 = 1376
11.18 <u>Ca</u> 11.19 11.20 11.21 11.22 11.23 11.24 11.25 11.26 11.29 11.30 11.31	Month 1 Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May	Year 2 16 16 16 16 16 16 16 17 17 17 17 17	Capabity Charge [Rs] 11.014,114.081 17.220,800,184 11,940,713,963 9,797,046,042 10,232,392,395 9,616,358,255 9,381,277,492 10,567,614,777 8,972,122,729 11,476,139,287 11,476,139,287	Energy Charge 12 9.219,825,417 11,451,760,195 6,527,748,249 3,578,278,534 5,175,916,526 5,179,946,517 4,714,218,422 4,687,210,775 7,595,672,493 10,793,121,612	Sum of all Charges [R5] 22,137,939,768 28,681,569,379 21,380,011,917 16,325,394,291 13,810,670,929 14,792,274,881 15,560,224,009 15,281,833,199 13,659,333,504 19,373,011,780 23,770,401,530	Use Of System Rate per kWih [Rs/kWih } 14 = 9 / 6	Capacity Rate per ktVh { Rs/kWh } 15 = 11 / 6	. Energy Raté per kWh [RsikWh] 16 ≃ 12 / ġ	Final Rate per KWh ( Ro/KWh ) 17 = 1376

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	DF - FORM 9 MEPCO Average Rate per Unit Purchased and Sold		Projected FY	2021-22
	- Weighted Average Cost per Unit Sold to Customers			
10.01	Use of System Charges (NTDC)			
10.02	Estimated Average Rate	(Table 11 - 11,16)	[Rs/kW/Month]	
10.03	Estimated Maximum Demand Indicator (MDI)	(Table 11 - 11.17)	(MW)	-
10.04	Number of Months (Fiscal Year)		[#]	12
10.05	Estimated Use of System Charges = (10.02 x 10.03 x 10.04)		[,000,000 Rs]	-
10.06	Fixed/Capacity Charge			
10.07	Estimated Average Rate	(Table 11 - 11.33)	[Rs/kW/Month]	
10.08	Estimated MDI	Form 6 ( A)	(MW)	
10.09	Number of Months (Fiscal Year)		[#]	12
10.10	Estimated Capacity Charge = (10.07 x 10.08 x 10.09)		(,000,000 Rs]	-
10.11	Energy Charge			
10.12	Estimated Average Energy Charge	(Table 11 - 11.33)	(Rs/kWhi	-
10,13	Estimated Energy Purchase for Fiscal Year	4 · · · · · · · · · · · · · · · · · · ·	[GWh]	
10.14	Estimated Energy Charges = (10.12 x 10.13)		{,000,000 Rs}	-
10.15	Estimated Power Purchase Price = (10.05 + 10.10 + 10.14)		[,000,000 Rs]	
10,16	Average Rate per Unit Purchased = (10.15 / 10.13)		[Rs/kWh]	0.0000
10.17	Estimated Energy Sold/ Wheeled		[GWh]	17,644
10.18	Average Energy Rate per Unit Sold = (10.15 / 10.17)		[Rs/kWh]	<u> </u>
10.19	Distribution Margin	۰.	[.000,000 Rs]	35,021
10.20	Distribution Margin per Unit Sold/ Wheeld = (10.19 / 10.17)	· · · · · · · · · · · · · · · · · · ·	[Rs/kWh]	1.9849
10.21	Total Cost per Unit Sold/Wheeled to Customers = (10.20 + 10.18)	· · ·	[Rs/kWh]	1.9849
10.22	Estimated Revenue from Energy Sold/Wheeled (10.15 + 10.19)		{,000 000 Rs}	35,021
10.23	Prior Period Adjustement (Uncovered Costs)		[.000,000 Rs]	<u> </u>
10.24	Required Estimated Revenue from Energy Sold/Wheeled (10.22 + 10.23)		[,000,000 Rs]	35,021

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Table 11 - CPPA Charges: Use of System, Capacity and Energy Use of System Charges (NTDC)

11.02	Monih 1	Year 2	Demand [kW] 3	Fixed Use of System Rate (Rs/kW) 4	Fixed Use of System Charges [Rs] 5 = 3 × 4	Energy (kWh) 6	MoF [Rs/kWh] 7	MoF [Rs] 8 = 3 x 7	Sys n Cha es JR 9=5
11.04	Jul	16	•	322 116			1.461	-	-
11.05	Aug	16		320.427			1,461		
11.06	Sep	16		342,598	•		1,461	-	
11.07	Oct	16		305.124			1,461	-	
11.08	Nov	16		299 258	-		1.461	-	
11.09	Dec	16		266.803			1,461	-	
11 10	Jan	17		318 913			1 461	-	
11.11	Feb	17		311.104	-		1.461	-	
11.12	Mar	17		310.412	-		1,461	-	
11.13	Apr	17		313,000			1.461	-	
11.14	May	17		314.259	-		1.461	-	
11.15	Jun	17		313,760	-		1.461	-	
11.16									
1.17		Avg per month (MV	V]		Avg per month (MWh)		-		
11.18	Capacity and E	nergy							
			Capacity Charge	Energy Charge	Sum of all Charges	Use Of System Rate per kWn	Capacity Rate per KWh	Energy Rate per kWh	Fi R P
11.19	Month	Year	[Rs]	[Rs]	(Rs)	[Rs/kWh]	[Rs/kWh]	[Rs/kWh]	75 1 1
11.20	1	2	11	12	13 = 9+11+12	14 = 9/5	15=11/6	16 = 12/6	13
11.21	Jul	16			-				
11.22	Aug	16			-				
11.23	Sep	16							
11.24	Oct	16							
11,25	Nov	16			-				
11.26	Dec	16							
11.27	Jan	17			-				
11.28	Feb	17			-				
11.29	Mar	17			-				
11.30	Apr	17							
11.31	May	17							
1.32	Jun	17			. <u> </u>				
11.33									

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FORM - 9 ( A )

11.01

	DF - FORM 9 MEPCO Average Rate per Unit Purchased and S	iold	Projected	FY 2022-23
	- Weighted Average Cost per Unit Sold to Cu	stomers		
10.01	Use of System Charges (NTDC)		-	
10.02	Estimated Average Rate	(Table 11 -	[Rs/kW/Month]	
10.03	Estimated Maximum Demand Indicator (MDI)	(Table 11	[MW]	-
10.04	Number of Months (Fiscal Year)		[#1	12
10.05	Estimated Use of System Charges = (10.02 x 10.03 x 10	0.04)	[.000,000 Rs]	
10.06	Fixed/Capacity Charge			
10.07	Estimated Average Rate	(Table 11 -	{Rs/kW/Month}	•
10.08	Estimated MDI	Form 6 ( A	(MW)	-
10.09	Number of Months (Fiscal Year)		[#]	12
10.10	Estimated Capacity Charge = (10.07 x 10.08 x 10.09)		[,000,000 Rs]	
10.11	Energy Charge			
10.12	Estimated Average Energy Charge	(Table 11 -	(Rs/kWh)	
10.13	Estimated Energy Purchase for Fiscal Year		[GWh]	·
10.14	Estimated Energy Charges = (10.12 x 10.13)		[,000,000 Rsj	-
10.15	Estimated Power Purchase Price = {10.05 + 10.10 +	10.14)	[,000,000 Rs]	
٩0.16	Average Rate per Unit Purchased = (10.15 / 10.13)		[Rs/kWh]	0.0000
10.17	Estimated Energy Sold/ Wheeled		[GWh]	18,028
10.18	Average Energy Rate per Unit Sold = (10.15 / 10.17)		[Rs/kWh]	
10.19	Distribution Margin		[,000,000 Rs]	40,246
10,20	Distribution Margin per Unit Sold/ Wheeld = (10	.19 / 10.17)	[Rs/kWh]	2.2323
10.21	Total Cost per Unit Sold/Wheeled to Customers	= (10.20 +	[Rs/kWh]	2.2323
10.22	Estimated Revenue from Energy Sold/Wheeled	(10.15 + 10	[,000,000 Rs]	40,246
10.23	Prior Period Adjustement (Uncovered Costs)		[,000,000 Rs]	
10.24	Required Estimated Revenue from Energy Sold	/Wheeled (	[.000,000 Rs]	40,246

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11.01	Use of Sys	tem Charg	aes (NTDC)						
				Fixed Use of	Fixed Use				Sum Use of
				System	System				Svistem
			Demand	Rate	Charges	Energy	MoF	MoF	Charges
11.02	Month	Year	(KW)	[Rs/kW]	Rst	(kWb)	[Rs/kWh]	(Rs)	[Rs]
11.03	1	2	ั้ว่	4	$5 = 3 \times 4$	6	7	8 = 3 x 7	9=5+8
11.04	Jul	16		342.634			1.461	-	-
11.05	Aug	16		341.032			1.461	-	
11.06	Sep	16		364.876	-		1.461	-	-
11.07	Oct	16		325.310	-		1.461	-	-
11.08	Nov	16		317.031			1.461	-	-
11.09	Dec	16		283.894	-		1.461		
11.10	Jan	17		338.224	-		1.461	-	-
11.11	Feb	17		327.568	-		1.461	-	-
11.12	Mar	17		330.767	-		1.461		•
11,13	Apr	17		332.945	-		1.461		•
11.14	May	17		334.542	-		1.461	-	-
11.15	Jun	17		334.243			1.461	· · ·	
11 16									
11.10									
11.17	Avg per m	onth (MW)		Avg per m	onth [MWh]				
11.17 11.15	Avg per m Capacity a	ionth (MW)		Avg per m	onth [MWh]	<u> </u>			
11.17	Avg per m <u>Capacity a</u>	ionth (MW)	Capacity Charge	Avg per m Energy Charge	onth [MWh] Sum of all Charges	Use Of System Rate per kWh	Capacity Rate per kWh	Energy Rate per kWh	Final Ra
11.10 11.17 11.18	Avg per m <u>Capecity a</u> Month	konth (MW) an <u>d Energy</u> Year	Capacity Charge [Rs]	Avg per m Exergy Charge [Rs]	onth (MWh) Sum of all Charges [Rs]	Use Of System Rate per kWh	Capacity Rate per kWh { Rs/kWh } 15 = 11 /	Energy Rate per kWh [ Rs/kWh ]	Final Rai per kW ( Rs/kW ) 17 = 13
11.10 11.17 11.18 11.19 11.20	Avg per m Capecity a Month	onth (MW) an <u>d Energy</u> Year 2	Capacity Charge [Rs]	Avg per m Exergy Charge [Rs] 12	onth (MWh) Sum of all Charges [Rs] <u>3 = 9+11+1</u>	Use Of System Rate per kWh [ Rs/kWh ]	Capacity Rate per kWh { Rs/kWh } 15 = 11 / 6	Energy Rate per kWh [Rs/kWh] 16 = 12 / 6	Final Ra per KW ( Rs/KW ) 17 = 13 6
11.10 11.17 11.18 11.19 11.20 11.21	Avg per m Capacity a Month 1 Jul	Year 2 16 •	Capacity Charge [Rs]	Avg per m Exergy Charge [Rs] 12	onth [MWh] Sum of all Charges [Rs] 3 = 9+11+1	Use Of System Rate per kWh ( Rs/kWh ) 14 = 9 / 6	Capacity Rate per kWh { Rs/kWh } 15 = 11 / 6	Energy Rate per kWh { Rs/kWh } 16 = 12 / 6	Final Ra per kW9 ( Rs/kW ) 17 = 13 6
11.10 11.17 11.18 11.19 11.20 11.21 11.22	Avg per m Capacity a Month <u>1</u> Jul Aug	Year 2 16 • 16	Capacity Charge [Rs]	Avg per m Exergy Charge [Rs] 12	onth [MWh] Sum of all Charges [Rs] <u>3 = 9+11+1</u>	Use Of System Rate per kWh (Rs/kWh) 14 = 9 / 6	Capacity Rate per kWh { Rs/kWh } 15 = 11 / 6	Energy Rate per kWh [ Rs/kWh ] 16 = 12 / 6	Final Ra per kWI ( Rs/kW ) 17 = 13 6
11.13 11.17 11.18 11.19 11.20 11.21 11.22 11.23	Avg per m Capacity a Month 1 Jul Aug Sep	Year 2 16 • 16 16	Capacity Charge [Rs] 11	Avg per m Energy Charge [Rs] 12	onth [MWh] Sum of all Charges [Rs] <u>3 = 9+11+1</u>	Use Of System Rate per kWh [Rs/kWh] 14 = 9 / 6	Capacity Rate per kWh { Rs/kWh } 15 = 11 / 6	Energy Rate per kWh { Rs/kWh } 16 = 12 / 6	Final Ra per kWI ( Rs/kW } 17 = 13 6
11.19 11.19 11.20 11.21 11.22 11.23 11.24	Avg per m Capacity a Month 1 Jul Aug Sep Oct	Year 2 16 • 16 16 16	Capacity Charge [Rs] 11	Avg per m Exergy Charge [Rs] 12	Sum of all Charges [Rs] 3 = 9+11+1	Use Of System Rate per kWh [Rs/kWh] 14 = 9 / 6	Capacity Rate per kWh { Rs/kWh } 15 = 11 / 6	Energy Rate per kWh [ Rs/kWh ] 16 = 12 / 6	Final Ra per KWI ( Rs/KW ) 17 = 13 6
11.19 11.19 11.20 11.21 11.23 11.23 11.24 11.25	Avg per m Capacity a Month 1 Jul Aug Sep Oct Nov	Year 2 16 • 16 16 16 16	Capacity Charge (Rs) 11	Avg per m Energy Charge [Rs] 12	onth [MWh] Sum of all Charges [Rs] <u>3 = 9+11+1</u>	Use Of System Rate per XWh [Rs/XWh] 14 = 9 / 6	Capacity Rate per kWh { Rs/kWh } 15 = 11 / 6	Energy Rate per kWh [Rs/kWh] 16 = 12 / 6	Final Ra per kWI ( Rs/kW } 17 = 13 6
11.15 11.17 11.19 11.20 11.21 11.22 11.23 11.24 11.25 11.26	Avg per m <u>Capacity a</u> Month <u>1</u> Jul Aug Sep Oct Nov Dec	Year 2 16 • 16 16 16 16 16 16	Capacity Charge [Rs] 11	Avg per m Energy Charge [Rs] 12	onth (MWh) Sum of all Charges [Rs] <u>3 = 9+11+1</u>	Use Of System Rate per kWh (Rs/kWh)	Capacity Rate per kWh { Rs/kWh } 5 = 11 / 6	Energy Rale per kWh [Rs/kWh ] 16 = 12 / 6	Final Ra per kWI { Rs/kW } 17 = 13 6
11.19 11.19 11.20 11.21 11.22 11.23 11.24 11.25 11.26 11.27	Avg per m <u>Capacity a</u> Month <u>1</u> Jul Aug Sep Oct Nov Dec Jan	Year 2 16 • 16 16 16 16 16 16 16 16	Capacity Charge [Rs] 11	Avg per m Energy Charge [Rs] 12	onth (MWh) Sum of all Charges [Rs] <u>3 = 9+11+1</u>	Use Cf System Rate per kWh {Ra/kWh}	Capacity Rate per kWh { Rs/kWh } 15 = 11 / 6	Energy Rate per kWh [ Rs/kWh ] 16 = 12 / 6	Final Ra per kWI { Rs/kW } 17 = 13 6
11.15 11.17 11.19 11.20 11.21 11.22 11.23 11.24 11.25 11.26 11.27 11.28	Avg per m <u>Capacity a</u> <u>Month</u> <u>Jul</u> Aug Sep Oct Not Dec Jan Feb	Year 2 16 * 16 16 16 16 16 16 16 17	Capacity Charge [Rs] [1	Avg per m Energy Charge [Rs] 12	Sum of all Charges [Rs] 3 = 9+11+1	Use Of System Rate per KWh [Rs/kWh] 14 = 9 / 6	Capacity Rate per kWh { Rs/kWh } 15 = 11 / 6	Energy Rate per kWh [Rs/kWh ] _16 = 12 / 6	Final Ra per KWI ( Rs/KW ) 17 = 13 6
11.15 11.17 11.19 11.20 11.21 11.22 11.23 11.24 11.25 11.26 11.27 11.28 11.29	Avg per m <u>Capacity a</u> <u>Month</u> <u>Jul</u> Aug Sep Oct Nov Oct Nov Dec Jan Feb Mar	Year 2 16 • 16 16 16 16 16 16 16 17 17	Capsety Charge [Rs] 1	Avg per m Exergy Charge [Rs] 12	Sum of all Charges [Rs] <u>3 = 9+11+1</u>	Use Of System Rate per XWh [Rs/kWh] 14 = 9 / 6	Capacity Rate per kWh { Rs/kWh } 15 = 11 / 6	Energy Rate per KWh { Rs/kWh } 16 = 12 / 6	Final Ra per KWI ( Rs/kW ) 17 = 13 6
11.17 11.17 11.19 11.20 11.21 11.22 11.23 11.24 11.25 11.26 11.27 11.28 11.29 11.30	Avg per m Capacity.a Month <u>1</u> Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr	Nonth (MW) Year 2 16 • 16 16 16 16 16 16 16 16 16 16	Capacity Charge [Rs] 11	Avg per m Energy Charge [Rs] 12	Sum of all Charges [Rs] <u>3 = 9+11+1</u>	Use Of System Rate per XWh [Rs/kWh] 14 = 9 / 6	Capacity Rate per kWh { Rs/kWh } 15 = 11 1 6	Energy Rate per KWh [RsRkWh ] <u>16 = 12 / 6</u>	Final Ra per KWI { Rs/kW } 17 = 13 6
11.17 11.17 11.19 11.20 11.21 11.23 11.24 11.25 11.26 11.27 11.28 11.29 11.30	Avg per m Capacity a Month 1 Jui Jui Aug Sep Oct Nov Dec Dec Dec Dec Mar Apr May	Year 2 16 • 16 16 16 16 16 16 16 17 17 17 17	Capacity Charge (Rs) 11	Avg per m Exergy Charge [Rs] 12	Sum of All Charges [Rs] <u>3 = 9+11+1</u>	Use Of System Rate per kWh [Rs/kWh] 14=9/6	Capacity Rate per kWh { Rs/kWh } 15 = 11 / 6	Energy Rale per KWh [Rs/kWh ] 16 = 12 / 6	Final Ra per KWI ( Rs/k:W ) 17 = 13 6

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# DF - FORM 10 MEPCO

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# Demand (Actual and Calculated) and Number of Customers

A. Actuals for Demands and Number of Customers

r	D. FUIECasteu	Demanus and M		usioniers using	regression and	alysis	
		Demand		Demand		Number of	
Sr#	Fiscal	Actual	Change	Calculated	Change	Customars	Change
0	Year	/Forecast		/Forecast		Customers	
		[,000 kW ]	%age	[,000 kW ]	%age	[ 000, ]	%age
12.01	2009-10	2,120	0.0%	2,988	0.0%	4,057	0.0%
12.02	2010-11	2,150	1.4%	2,949	-1.3%	4,226	4.2%
12.03	2011-12	2,224	3.4%	3,022	2.5%	4,424	4.7%
12.04	2012-13	2,039	-8.3%	3,360	11.2%	4,673	5.6%
12.05	2013-14	2,746	34.7%	3,570	6.3%	4,860	4.0%
12.06	2014-15	2,468	-10.1%	3,892	9.0%	5,116	5.3%
12.07	2015-16	2,542	3.0%	3,587	-7.8%	5,375	5.1%
12.08	2016-17	2,894	13.8%	3,804	6.0%	5,701	. 6.1%
12.09	2017-18	3,436	18.7%	4,018	5.6%	6,073	6.5%
12.1	2018-19	3,696	7.6%	3,791	-5.6%	6,485	6.8%
12.11	2019-20	3,854	4.3%	4,115	8.5%	6,885	6.2%
12.12	2020-21	4,136	7.3%	4,635	12.6%	7,281	5.8%
12.13	2021-22	4,450	7.6%	4,867	5.0%	7,718	6.0%
12.14	2022-23	4,762	7.0%	5,110	5.0%	8,243	6.8%
12.15	2023-24	5,095	7.0%	5,366	5.0%	8,738	6.0%
12.16	2024-25	5,451	7.0%	5,634	5.0%	9,262	6.0%



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DF - FORM 11 MEPCO Evaluation of Energy Sold and Setting up Average Energy Sold

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	DF - FORM 9 MEPCO Average Rate per Unit Purchased and Sol - Weighted Average Cost per Unit Sold to Cust	d omers	Projected	FY 2023-24
10.01	Use of System Charges (NTDC)			
10.02	Estimated Average Rate (	Table 11 -	[Rs/kW/Month]	-
10.03	Estimated Maximum Demand Indicator (MOI) (	Table 11 -	[MW]	
10.04	Number of Months (Fiscal Year)		[#]	12
10.05	Estimated Use of System Charges = (10.02 x 10.03 x 10.0	)4)	[.000.000 Rs]	-
10.06	Fixed/Capacity Charge			
10.07	Estimated Average Rate	Table 11 -	[Rs/kW/Month]	-
10.08	Estimated MDI F	form 6 ( A	[MW]	-
10.09	Number of Months (Fiscal Year)			12
10.10	Estimated Capacity Charge = (10.07 x 10.06 x 10.09)		[.000,000 Rs]	-
10.11	Energy Charge			
10.12	Estimated Average Energy Charge	Table 11 -	[Rs/KWh]	-
10,13	Estimated Energy Purchase for Fiscal Year		(GWh)	i
10.14	Estimated Energy Charges = (10.12 x 10.13)		(,000,000 Rs)	-
10.15	Estimated Power Purchase Price ≖ (10.05 + 10.10 + 10.	.14)	[,000,000 R\$]	
10.16	Average Rate per Unit Purchased = (10.15 / 10.13)		[Rs/kWh]	0.0000
10.17	Estimated Energy Sold/ Wheeled		[GWh]	18,411
10.18	Average Energy Rate per Unit Sold = (10,15 / 10,17)		[Rs/kWh]	
10,19	Distribution Margin		[,000,000 Rs]	45,629
10.20	Distribution Margin per Unit Sold/ Wheeld = (10.19	) / 10.17)	[Rs/kWh]	2.4784
10.21	Total Cost per Unit Sold/Wheeled to Customers =	(10.20 +	[Rs/kWh]	2.4784
10.22	Estimated Revenue from Energy Sold/Wheeled (1	0 15 + 10	[,000,000 Rs]	45,629
10.23	Prior Period Adjustement (Uncovered Costs)		[.000,000 Rs]	<u> </u>
10.24	Required Estimated Revenue from Energy Sold/W	heeled (	[.000.000 Rs]	45,629

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FORM - 9 ( A ) Table 11 - CPPA Charges: Use of System, Capac

11.01 Use of System Charges (NTDC)

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11.02 11.03	Month 1	Year 2	Demand (kW) 3	Fixed Use of System Rate (Rs/kW) 4	Fixed Use of System Charges [Rs] 5 = 3 x 4	Energy [kWh] 6	ˈMoF [Rs/kWh] 7	MoF [Rs] 8 = 3 x 7	Sunt Use of System Charges [ Rs] 9=5+8
11.04	Jul	16		313.107	-		1.461	•	•
11.05	Aug	16		311.228	- 1		1.461	•	•
11.06	Sep	16		333.174	•		1,461	-	-
11.07	Oct	16		297.179	-		1 461	-	-
11.08	Nov	16		290,378	-		1.461		
11.09	Dec	16		258,695			1.461	-	-
11.10	Jan	17		308.787	•		1.461	-	•
11,11	Feb	17		288.391	-		1.461	-	-
11.12	Mar	17		301.499	-		1.461	•	
11.13	Apr	17		290.305	•		1,461		-
11.14	May	17		305.108			1.461	-	
11.15	Jun	17		309.081			1.461	-	-
11.16				#DIV/01	-			-	-
11,17	Avg per m	onth (MW)		Avg per mo	onth (MWh)				

			Capacity Charge	Energy Charge	Sum of all Charges	System Rate per kWh	Capacity Rate per kWh	Energy Rate per kWh	Final Rate per kWh
11.19	Month	Year	(Rs)	(Rs)	[Rs]	[Rs/kWh]	{ Rs/kWh ] 15 = 11 /	[Rs/kWh]	[ Rs/kWh ] 17 = 13 /
11.20	1	2	11	12	3 = 9+11+1	14=9/6	6	16 = 12 / 6	6
11.21	Jui	16							
11.22	Aug	16							
11.23	Sep	16							
11.24	Oct	16							
11.25	Nov	16		•					
11.26	Dec	16							
11.27	Jan	17							
11.28	Feb	17							
11.29	Mar	17							
11.30	Apr	17							
11.31	May	17							
11.32	Jun	17							
11.33									
11.34	Avg Cap	Charge =						-	

	Average Pate per Lipit Durabased and Sald		Projecte	u r f 2024-25
	Average Rate per Onit Purchasen and Solu			
	- Weighted Average Cost per Unit Sold to Costomers	•		
10 01	Use of System Charges (MTDC)			
10.02	Estimated Average Rate (Table	11.	(Rs/kW/Month)	-
10.03	Estimated Maximum Demand Indicator (MDI) (Table 1	11 -	[MW]	•
10.04	Number of Months (Fiscal Year)		[#]	12
10.05	Estimated Use of System Charges = (10.02 x 10.03 x 10.04)		[.000,000 Rs]	-
10.06	Fixed/Capacity Charge			
10.07	Estimated Average Rate (Table )	11 -	[Rs/kW/Month]	
10.08	Estimated MDI Form 6	( A	[MW]	-
10.09	Number of Months (Fiscal Year)		[#]	12
10,10	Estimated Capacity Charge = (10.07 x 10.08 x 10.09)		[,000,000 Rs]	-
10,11	Energy Charge			
10.12	Estimated Average Energy Charge (Table 1	11 -	[Rs/kWh]	-
10.13	Estimated Energy Purchase for Fiscal Year		[GWh]	
10.14	Estimated Energy Charges = (10.12 x 10.13)		[.000,000 Rs]	-
10.15	Estimated Power Purchase Price = (10.05 + 10.10 + 10.14)		[,000,000 Rs]	-
10.16	Average Rate per Unit Purchased = (10.15 / 10.13)		[Rs/kWh]	0.0000
10.17	Estimated Energy Sold/ Wheeled		[GWh]	18,801
10.18	Average Energy Rate per Unit Sold = {10.15 / 10.17}		[Rs/kWh]	<u> </u>
10.19	Distribution Margin		[,000,000 Rs]	51,345
10.20	Distribution Margin per Unit Sold/ Wheeld = {10.19 / 10.	17)	[Rs/kWh]	2.7310
10.21	Total Cost per Unit Sold/Wheeled to Customers = {10.20	0 +	[Rs/kWh]	2.7310
10.22	Estimated Revenue from Energy Sold/Wheeled (10.15 +	1(	[,000,000 Rs]	51,345
10.23	Prior Period Adjustement (Uncovered Costs)		[.000,900 Rs]	<u>.</u>
10.24	Required Estimated Revenue from Energy Sold/Wheele	ed (	[.000,000 Rs]	51,345

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FORM -	9 ( A ) Table 11 -	CPPA C	harges: Us	se of Syst	em, Capac			
11.01	Use of Sys	stem Char	ges (NTDC)					
				Fixed Use	Fixed Use			
				01	of			
			•	System	System			
			Demand	Rate	Charges	Energy	MoF	MoF
11.02	Month	Year	[kW]	(Rs/kW)	[ Rs]	[k\Vh]	[Rs/kWh]	[ Rs]
11.03	- 1	2	3	4	5 = 3 x 4	6	7	8 = 3 x
11.04	Jul	16		300.130	-		1.461	
11.05	Aug	16		297.954	-		1.461	
11.06	Sep	16		318,548			1.461	
11.07	Oct	16		284.135			1.461	
11.08	Nov	16		277.812			1.461	
11.09	Dec	16		248.320	-		1.461	
11.10	Jan	17		295.326	-		1,461	
11.11	Feb	17		285.578			1.461	
11.12	Mar	17		288.823			1,461	
11.13	Apr	17		278,108	-		1,461	
11.14	May	17		292.093	-		1,461	
11.15	Jun	17		295.650	-		1,461	
11 16				#DIV/01				

Sum Use of System Charges [ Rs] 9=5+8

11.10 11.11 11.12 11.13 11.14 11.15 11.16 11.17 295.326 -285.578 -288.823 -278.108 -292.093 -295.650 -#DIV/0! -Avg per month [MWh] Avg per month [MW]

11.18 Capacity and Energy

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		•	Capacily Charge	Energy Charge	Sum of all Charges	Use Of System Rate per kWh	Capacity Rate per kWn	Energy Rate per kWh	Finai Rate per kWh
11.19	Month	Year	(Rs)	[Rs]	(Rs)	[Rs/kWh]	[Rs/kWh ] 15 = 11 /	[Rs/kWh]	[Rs/kWh ] 17 = 13 /
11.20	1	2	11	12	3 = 9+11+1	14 = 9/6	8	16 = 12/6	<u>6</u>
11.21	Jui	16							
11.22	Aug	16							
11.23	Sep	16							
11.24	Oct	16							
11.25	Nov	16							
11.26	Dec	16							
11.27	Jan	17							
11.28	Feb	17							
11.29	Mar	17							
11.30	Apr	17							
11.31	May	17							
11.32	Jun	17							
11.33									
11.34	Avg Cap.	Charge =				· .		-	-



Month

Jul-15 Aug-15 Sep-15 Oct-15 Nov-15 Dec-15

Jan-16 Feb-16 Mar-16 Apr-16 May-16 Jun-16 Jul-16

Aug-16 Sep-16 Oct-16 Nov-16

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DF - FORM 13 Asset register as the year ended at date June 30, 2018

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			Cost			Accumulated	Depreciation		Book Value as on
	Description	As at July 01,	Addition/ deletions	As at June 30,	As at July 01,	Charge during the	Adjustments	As at June 30,	June 30,
No.	Description	2017		2018	2017	year		2018	2018
A.	Ereebold	252 602 002	5 076 000	259 670 000					050 070 000
	Lessehold	2 2 2 7 7 2 2 8	5,070,000	0079,002	700 464	0	0	700.404	358,679,002
<sup>2</sup>	Total	355 880 340	5.076.000	2,211,330	790,104	0	0	790,164	1,487,174
	Buildings	333,880,340	5,070,000	360,930,340	790,104	· · · · · · · · · · · · · · · · · · ·	0	790,164	360,166,176
р. 1	Residential Buildings	1 260 562 771	119 104 070	1 479 667 960	111 490 600	07 701 050	0	100 010 515	
	Non Residential Buildings	1 242 542 706	110,104,079	1,470,007,000	111,400,093	27,701,853	0	139,242,545	1,339,415,305
	CSO Residential Buildings	1,343,512,700	122,470,463	1,465,983,169	333,097,394	27,523,885	0	360,621,280	1,105,361,890
	Non CSO Residential Buildings	903,930,999	79,997,000	1,043,933,999	462,782,487	19,599,897	0	482,382,385	561,551,615
. 4	Total	44,396,703	3,208,808	47,605,511	843,727	893,795	0	1,737,523	45,867,989
	Foldi	3,712,400,100	323,780,350	4,036,180,530	908,204,302	/5,//9,430	0	983,983,732	3,052,196,798
	100 KV/ Sub Transmission Lines		750 400 740	0 700 001 000	0 705 005 700	0	0	0	0
	132 KV Sub Transmission Lines	7,983,462,375	/ 56,438,/18	8,739,901,093	2,765,805,799	286,705,449	0	3,052,511,247	5,687,389,845
	32 KV Sub Transmission Lines	231,537,969	0	231,537,969	192,839,001	7,595,417	0	200,434,418	31,103,551
	Total	0	750 400 740	0	0	0	0	0	0
	Crid Clating	8,215,000,344	/55,438,/18	8,971,439,062	2,958,644,800	294,300,866	0	3,252,945,666	5,718,493,396
0.	Grid Station	45 700 004 570	0.		0	0	C.	· 0	0
	132 KV Grid Station	15,739,834,570	1,586,812,964	17,325,647,534	4,109,668,615	568,386,782	0	4,678,055,397	12,648,592,137
	66 KV Grid Station	1,370,509,239	0	1,370,509,239	323,925,554	44,958,457	0	368,884,011	1,001,625,228
	T-t-1	0	0	0	0	0	0	0	0
<u> </u>	10tal	17,110,343,808	1,586,812,964	18,697,156,773	4,433,594,168	613,345,239	0	5,046,939,407	13,650,217,365
E.	11 KV Distribution Equipments	7 004 400 000	700.000.010	0.501.000.070	0	0	0	0	0
	1410/ Line	7,801,163,862	720,298,816	8,521,462,678	2,744,442,404	279,539,752	0	3,023,982,156	5,497,480,523
		16,951,370,981	1,560,885,307	18,512,256,289	5,647,411,114	607,279,727	0	6,254,690,841	12,257,565,448
		25,003,397,336	2,396,625,794	27,400,023,130	7,176,664,278	898,835,793	0	8,075,500,071	19,324,523,059
	I V Distribution Equipments	49,755,932,179	4,677,809,917	54,433,742,097	15,558,517,796	1,785,655,271	0	17,354,173,067	37,079,569,030
r.	LV Distribution Equipments		500 540 440		0	0	0	• 0	0
	LV Poles	6,337,000,057	583,512,112	6,920,512,169	2,227,063,161	227,021,854	0	2,454,085,015	4,466,427,154
	440 LV Distribution Line		0	0	0	0	· 0	0	0
	220 LV Distribution Line	9,305,225,872	865,409,903	10,170,635,776	3,096,852,470	333,639,553	0	3,430,492,023	6,740,143,752
	Kvvn Weters & Service Cable	7,403,206,022	671,532,395	8,074,738,418	1,302,307,228	264,885,320	0	1,567,192,549	6,507,545,869
		15,354,668,051	1,232,385,861	16,597,053,912	5,526,744,950	517,233,384	0	6,043,978,334	10,553,075,577
		38,410,100,002	3,352,840,271	41,762,940,274	12,152,967,810	1,342,780,111	0	13,495,747,921	28,267,192,353
G.		0	0	0	0	0	0	. 0	- 0
	1 132/66/33 KV GSU Venicies	291,746,888	10,314,829	302,061,717	147,905,946	13,214,994	. 0	161,120,940	140,940,777
	Venicles	692,820,067	24,212,332	717,032,399	580,338,513	32,090,900	0	612,429,413	104,602,986
L	Total	984,566,955	34,527,161	1,019,094,116	728,244,459	45,305,894	0	773,550,353	245,543,763
Н.	Detail of General Plant Assets	0	0	0	0	0	0	0	0
	Computer Equipment	397,400,691	28,523,317	425,924,008	168,653,412	26,831,100	. 0	195,484,512	230,439,496
-	2 Furniture/Work shop/Mis.Equip.	528,673,765	47,192,046	575,865,811	332,814,073	40,340,292	0	373,154,365	202,711,446
:	3 Workshop Equipment	0	0	0	0	· 0	· 0	0	0
1 '	Laboratory Equipment	269,138	35,430	304,569	29,070	27,409	· . 0	56,479	248,090
*	5 Misc. Equipment	65,205,182	8,354,485	73,559,667	7,042,910	6,617,739	0	13,660,649	59,899,017
	Total	991,548,776	84,105,278	1,075,654,054	508,539,465	73,816,539	0	582,356,004	493,298,050
J.	O&M Equipments								
L	Grand Total	119,535,772,585	10,821,390,660	130,357,163,245	37,259,502,964	4,230,983,350	0	41,490,486,314	88,866,676,931

			Cost			Accumulated	Depreciation		Book Value as on
No	Description	As at July 01,	Addition/ deletions	As at June 30,	As at July 01,	Charge during the	Adjustments	As at June 30,	June 30,
Δ	Description	2018		2019	2018	year		2019	2019
^· .	Ereehold	359 670 000	27 477 400	205 250 404				0	005 050 404
	Leasehold	358,679,002	37,177,432	395,855,434	0	0	0	0	395,856,434
'	Total	2,277,330	07.177.100	2,277,338	790,164	0		790,164	1,487,174
	Buildings	360,956,340	37,177,432	398,133,772	790,164	0	0	/90,164	397,343,608
1	Residential Buildings	1 479 657 950	100.075.070	4 500 000 000	100 040 545	0 407 005	0	100 000 150	4 449 050 770
	Non-Residential Buildings	1,470,007,000	109,075,378	1,588,333,228	139,242,545	30,137,905		169,380,450	1,418,952,778
	GSO Residential Buildings	1,405,903,109	113,730,148	1,579,713,317	360,621,280	29,879,571	0	390,500,850	1,189,212,467
	Non-GSO Residential Buildings	1,043,933,999	74,287,877	1,118,221,876	482,382,385	21,277,393	0	503,659,777	614,562,098
	Total	47,605,511	2,979,806	50,585,318	1,737,523	970,292	0	2,707,815	47,877,503
C C	Sub Transmission	4,030,180,530	300,673,209	4,336,853,739	983,983,732	82,265,161	0	1,066,248,893	3,270,604,846
1	132 KV/ Sub Transmission Linos	0 730 004 000	0	0 000 000 000	0	0	0	0	0 0 577 050 177
	66 KV Sub Transmission Lines	8,739,901,093	921,901,105	9,661,802,198	2,767,984,690	316,167,331	0	3,084,152,021	6,577,650,177
	33 KV Sub Transmission Lines	231,337,969	24,423,058	255,961,027	73,329,612	8,375,923	0	81,705,535	1/4,255,492
	Total	8.074.400.000	0	0	0	0		0	0
- n	Grid Station	0,971,439,062	946,324,163	9,917,763,225	2,841,314,302	324,543,254	U	3,165,857,556	6,/51,905,669
1	132 KV Grid Station	17 206 647 524	U	U	0	0	. 0	0	10 010 000 150
2	66 KV Grid Station	1 370 500 330	1,827,847,171	19,154,294,705	5,487,464,285	626,794,268	0	6,114,258,553	13,040,036,152
3	33 KV Grid Station	1,370,509,239	144,563,876	1,515,073,115	434,049,373	49,578,393	0	483,527,755	1,031,445,349
	Total	19 607 166 772	4 072 244 047	0	5 004 540 650			0	
E.	11 KV Distribution Equipments	10,007,100,773	1,9/2,211,04/	20,009,357,820	5,921,513,656	076,372,001		0,597,000,319	14,0/1,481,501
1	11 KV Poles	8 521 462 678	808 850 812	0 420 222 401	0 609 903 704	200 265 206	0	000 000 500 6	0 412 252 410
2	11KV Line	18 512 356 390	1 050,003,013	9,420,322,491	2,096,003,794	308,203,280	0	5,007,009,080	0,413,253,410
3	Distribution Transformer	27 515 858 707	1,552,101,555	20,404,903,007	0 714 455 106	009,003,030	0	0,002,000,000	10,902,020,004
	Total	54 549 577 764	5 753 991 /33	60 303 560 106	17 276 212 268	1 993,390,828	0	9,709,645,754	20,700,437,204
F.	LV Distribution Equipments	01,040,011,104	0,100,001,400	00,000,000,100	11,270,213,300	1,913,339,110		15,245,555,156	41,034,010,030
1	LV Foies	6 920 512 169	729 988 560	7 650 500 729	2 101 772 141	250 350 643	0	2 442 122 784	5 208 377 045
2	440 LV Distribution Line	0	. 20,000,000	0,000,000,120	2,101,112,141	200,000,040		2,442,122,104	0,200,017,040
3	220 LV Distribution Line	10.170.635.776	1 072 817 674	11 243 453 449	3 221 107 861	367 924 389		3 589 032 250	7 654 421 199
4	KWh Meters & Service Cable	8 074 738 418	851 738 503	8 926 476 920	2 557 323 256	292 104 964	0	2 849 428 220	6 077 048 701
5	Misc. Equipment	16.597.053.912	1.750.688.272	18 347 742 183	5 256 397 142	600 401 101	Ő	5 856 798 243	12 490 943 940
	Total	41,762,940,274	4,405,233,008	46,158,173,282	13,226,600,400	1.510.781.097	0	14,737,381,497	31,430,791,785
G.	Vehicles	0	0	0	0	0	0	0	0
1	132/66/33 KV GSO Vehicles	302,061,717	0	302.061.717	161,120,940	13 107 127		174 228 067	127 833 649
2	Vehicles	717,032,399	3,496,100	720,528,499	612 429 413	31,828,962	o	644,258,375	76 270 125
	Total	1,019,094,116	3,496,100	1.022.590.216	773,550,353	44,936,089	0	818,486,442	204.103.774
Н.	Detail of General Plant Assets	0	0	0	0	0	0	0	0
1	Computer Equipment	425,924,008	136,787,044	562,711,052	195,484,512	31,429,533	0	226,914,045	335 797 008
2	Furniture/Work shop/Mis.Equip.	575,865,811	226,315,211	802,181.022	373,154.365	47,253.991	0	420,408,356	381,772,666
3	Workshop Equipment	0	0	0	0	0	o	0	0
4	Laboratory Equipment	304,569	169,910	474.479	56.479	32.106	01	88.585	385.894
5	Misc. Equipment	73,559,667	40,064,950	113,624.617	13,660.649	7,751.917	o o	21,412,566	92,212,051
	Total	1,075,654,054	403,337,116	1,478,991.170	582,356.004	86,467.547	. 0	668,823.551	810,167.619
J.	O&M Equipments		, , , , , , , , , , , , , , , , , , ,						
	Grand Total	130,472,998,912	13,822,443,508	144,295,442,420	41,606,321,981	4,698,705,579	0	46,305,027,560	97,990,414,860

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Asset register as the year ended at date June 30, 2020

132,808,051									
		A	Cost	Ac at hims 20	Accumulated Depreciation				Book Value as on
No	Description	As at July 01,	Addition/ deletions	AS at June 30, 2020	AS at July 01, 2019	Unarge during the	Adjustments	AS at June 30, 2020	June 30, 2020
NO.	Description	2019		2020	2013	yeai			2020
A.	Freehold	205 956 424		205 856 424		0			395 856 434
	Freehold	390,000,434	· · ·	2 277 228	790 164	. 0	0	790 164	1 487 174
2	Leasenoid	2,277,330	0	2,277,000	790,104		0	790,104	307 343 608
5	Duilding	390,133,772	0	390,133,112	790,104		0	150,104	000,040,000
В.	Buildings	0	0		100,000,450	00.054.540	0	000 404 000	1 477 060 660
1	Residential Buildings	1,588,333,228	91,062,439	1,079,393,007	169,380,450	32,054,548	0	201,434,999	1,477,900,009
2	Non-Residential Buildings	1,579,713,317	90,568,242	1,670,281,559	390,500,850	31,880,588	U	422,381,438	1,247,900,121
3	GSO Residential Buildings	1,118,221,876	64,109,980	1,182,331,856	503,659,777	22,567,114	0	526,226,891	656,104,964
4	Non-GSO Residential Buildings	50,585,318	2,900,161	53,485,479	2,707,815	1,020,875	0	3,728,690	49,756,789
	Total	4,336,853,739	248,640,822	4,585,494,561	1,066,248,893	87,523,125	0	1,153,772,018	3,431,722,543
C.	Sub Transmission	. 0	0	0	0	0	0	· 0	0
1	132 KV Sub Transmission Lines	9,661,802,198	661,815,934	10,323,618,132	3,084,152,021	343,587,575	0	3,427,739,596	6,895,878,536
2	66 KV Sub Transmission Lines	255,961,027	17,532,866	273,493,894	81,705,535	9,102,342	0	90,807,877	182,686,016
3	33 KV Sub Transmission Lines	0	0	0	0	0	0	0	0
	Total	9,917,763,225	679,348,800	10,597,112,025	3,165,857,556	352,689,917	0	3,518,547,473	7,078,564,552
D.	Grid Station	0	0	0	0	0	0	. 0	0
- 1	132 KV Grid Station	19,154,294,705	1,312,034,461	20,466,329,166	6,114,258,553	681,154,254	0	6,795,412,807	13,670,916,359
2	66 KV Grid Station	1,515,073,115	103,779,762	1,618,852,877	483,627,766	53,878,178	0	537,505,944	1,081,346,933
3	33 KV Grid Station	0	0	0	0	. 0	0	0	0
	Total	20,669,367,820	1,415,814,223	22,085,182,042	6,597,886,319	735,032,432	0	7,332,918,751	14,752,263,292
E.	11 KV Distribution Equipments	0	0	· 0	0	0	0	0	0
1	11 KV Poles	9,420,322,491	645,275,012	10,065,597,503	3,007,069,080	335,000,210	0	3,342,069,290	6,723,528,213
2	11KV Line	20,464,963,687	1,401,812,910	21,866,776,597	6,532,638,303	727,763,527	0	7,260,401,831	14,606,374,767
3	Distribution Transformer	30,418,283,018	2,083,597,239	32,501,880,257	9,709,845,754	1,081,717,871	0	10,791,563,625	21,710,316,633
	Total	60,303,569,196	4,130,685,161	64,434,254,358	19,249,553,138	2,144,481,608	0	21,394,034,746	43,040,219,612
F.	LV Distribution Equipments	0	0	0	0	0	0	0	0
1	LV Poles	7,650,500,729	524,045,430	8,174,546,159	2,442,122,784	272,062,804	0	2,714,185,588	5,460,360,571
2	440 LV Distribution Line	0	0	0	0	0	0	0	0
3	220 LV Distribution Line	11,243,453,449	770,156,177	12,013,609,626	3,589,032,250	399,833,367	0	3,988,865,617	8,024,744,009
4	KWh Meters & Service Cable	8.926.476.920	611,447,486	9,537,924,406	2.849.428.220	317,438,351	. 0	3,166,866,571	6,371,057,835
5	Misc. Equipment	18.347.742.183	1.256.787.076	19.604.529.259	5.856,798,243	652,472,087	0	6,509,270,330	13,095,258,929
	Total	46,168,173,282	3,162,436,158	49.330.609.450	14.737.381.497	1.641.806.609	0	16.379.188.106	32.951.421.344
G	Vehicles	0	0		0	0	0	0	0
1	132/66/33 KV GSO Vehicles	302 061 717	11 339 182	313 400 899	174 228 067	13 269 826	0	187 497 894	125 903 006
	Vehicles	720 528 400	27 048 129	747 576 628	644 258 375	31 653 426	0	675 911 800	71 664 827
4	Total	1 022 500 245	27,040,123	1 060 077 527	819 496 443	44 922 252	0	963,409,694	197 567 833
<u> </u>	Potal of Canoral Plant Accests	1,022,590,213	30,307,311	1,000,977,527	010,400,442	44,523,232		003,409,034	137,507,035
П.	Computer Equipment	500 744 050	25 024 242	E00 635 365	000 014 045	46 343 635	0	073 252 670	225.277.506
	Comparer Equipment	502,711,052	54,040,004	090,000,200	400,400,040	40,545,025	0	400 474 102	323,077,000
	Furniture/work snop/wis.Equip.	802,181,022	51,212,291	803,383,313	420,408,356	00,005,837		400,474,193	300,919,120
	vvorksnop Equipment	0	0	0	0	0	0	0	
4	Laboratory Equipment	474,479	30,291	504,770	88,585	39,077	0	127,662	377,109
	Misc. Equipment	113,624,617	7,253,945	120,878,561	21,412,566	9,357,870	0	30,770,435	90,108,126
	Total	1,478,991,170	94,420,740	1,573,411,910	668,823,551	121,806,408	0	790,629,959	782,781,951
J.	O&M Equipments					<b>.</b>	-		100 001 001
	Grand Total	144,295,442,420	9,769,733,225	154,065,175,645	46,305,027,560	5,128,263,351	0	51,433,290,911	102,631,884,734

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DF - FORM 13 Asset register as the year ended at date June 30, 2021 (Projected)

			Cost		······	Accumulated	Depreciation		Book Value as on
No	Departmention	As at July 01,	Addition/ deletions	As at June 30,	As at July 01,	Charge during the	Adjustments	As at June 30,	June 30,
Δ	Land	2020		2021	2020	year		2021	2021
<sup>^,</sup> 1	Ereebold	205 050 424	44.000.400	100 055 007					100 055 007
	i easehold	395,856,434	41,099,403	436,955,837	0	. 0	0	700 404	436,955,837
-	Total	2,277,338	236,442.37	2,513,780	790,164			790,164	1,723,616
R	Buildings	398,133,772	41,335,845	439,469,617	/90,164	0	0	/90,164	438,679,453
1	Residential Puildings			U	U	0	0	0	
	Non Residential Duildings	1,679,395,667	174,361,595	1,853,757,252	201,434,999	35,049,317	. 0	236,484,316	1,617,272,947
2	CSO Residential Buildings	1,670,281,559	173,415,332	1,843,696,891	422,381,438	34,859,104	0	457,240,542	1,386,456,349
3	GSO Residential Buildings	1,182,331,856	122,754,436	1,305,086,292	526,226,891	24,675,498	0	550,902,389	754,183,903
4	Non-GSO Residential Buildings	53,485,479	5,553,077	59,038,556	3,728,690	1,116,252	0	4,844,942	54,193,614
		4,585,494,561	476,084,440	5,061,579,001	1,153,772,018	95,700,171	0	1,249,472,189	3,812,106,812
6.	Sub Transmission	0	0	0	C	0	0	0	0
	132 KV Sub Transmission Lines	10,323,618,132	1,308,611,462	11,632,229,593	3,427,739,596	382,489,415	0	3,810,229,011	7,822,000,582
2	66 KV Sub Transmission Lines	273,493,894	34,667,811	308,161,705	90,807,877	10,132,932	0	100,940,809	207,220,896
3	33 KV Sub Transmission Lines	0	0	0	0	0	0	0	0
	Tota!	10,597,112,025	1,343,279,273	11,940,391,298	3,518,547,473	392,622,347	0	3,911,169,821	8,029,221,477
D.	Grid Station	0	0	0	0	0	0	0	0
1	132 KV Grid Station	20,466,329,166	2,594,291,321	23,060,620,487	6,795,412,807	758,276,234	0	7,553,689,041	15,506,931,446
2	66 KV Grid Station	1,618,852,877	205,204,164	1,824,057,041	537,505,944	59,978,399	0	597,484,343	1,226,572,698
3	33 KV Grid Station		0	0	0	0	0	0	0
	Total	22,085,182,042	2,799,495,485	24,884,677,528	7,332,918,751	818,254,633	0	8,151,173,384	16,733,504,144
Ε.	11 KV Distribution Equipments	0	0	0	0	0	0	0	0
1	11 KV Poles	10,065,597,503	1,275,905,026	11,341,502,529	3,342,069,290	372,929,767	: 0	3,714,999,057	7,626,503,472
2	11KV Line	21,866,776,597	2,771,810,631	24,638,587,228	7,260,401,831	810,162,725	0	8,070,564,556	16,568,022,672
3	Distribution Transformer	32,501,880,257	4,119,905,685	36,621,785,942	10,791,563,625	1,204,192,660	0	11,995,756,285	24,626,029,657
	Total	64,434,254,358	8,167,621,341	72,601,875,699	21,394,034,746	2,387,285,152	0	23,781,319,897	48,820,555,801
F.	LV Distribution Equipments	0	0	0	0	0	0	0	0
1	LV Poles	8,174,546,153	1,036,197,258	9,210,743,417	2,714,185,589	302,866,431	0	3.017,052,019	6,193,691,397
2	440 LV Distribution Line	0	0	0	0	0	0	0	0
3	220 LV Distribution Line	12,013,609,626	1,522,833,085	13,536,442,712	3,988,865,617	445,103,496	0	4,433,969,113	9,102,473,599
4	KWh Meters & Service Cable	9,537,924,406	1,209,017,714	10,746,942,120	3,166,866,571	353,379,511	0	3,520,246,082	7,226,696,038
5	Misc. Equipment	19,604,529,259	2,485,050,431	22,089,579,690	6,509,270,330	726,346,600	0	7,235,616,931	14,853,962,759
	Total	49,330,609,450	6,253,098,488	55,583,707,938	16,379,188,106	1,827,696,039	0	18,206,884,145	37,376,823,793
G.	Vehicles	0	0	0	0	0	0	0	0
1	132/66/33 KV GSO Vehicles	313,400,899	44,283,859	357,684,758	187,497,894	20,640,981	0	208,138,875	149,545,884
2	Vehicles	747,576,628	105,633,322	853,209,950	675,911,800	49,236,346	Q	725,148,146	128,061,804
	Total	1,060,977,527	149,917,181	1,210,894,708	863,409,694	69,877,327	0	933,287,021	277,607,687
Н.	Detail of General Plant Assets	0	0	0	0	0	0	0	0
1	Computer Equipment	598,635,265	84,587,759	683,223,024	273,257,670	39,426,878	. 0	312,684,548	370,538,476
2	Furniture/Work shop/Mis.Equip.	853,393,313	120,585,325	973,978,638	486,474,193	56,205,567	0	542,679,759	431,298,879
3	Workshop Equipment	o	o	0	0	0	0	0	0
4	Laboratory Equipment	504,770	71,325	576,095	127,662	33,245	0	160,906	415,188
5	Misc. Equipment	120,762,385	17,063,845	137,826,231	30,770,435	7,953,564	0	38,723,999	99,102,231
	Total	1,573,295,734	222,308,254	1,795,603,988	790,629,959	103,619,254	0	894,249,213	901,354,775
J	O&M Equipments								
	Grand Total	154,065,059,469	19,453,140,308	173,518,199,777	51,433,290,911	5,695,054,922	0	57,128,345,833	116,389,853,944

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DF - FORM 13		
Asset register as the	ear ended at date June 30, 2022 (I	Projected)

			Cost		Accumulated Depreciation			Book Value as on	
		As at July 01,	Addition/ deletions	As at June 30,	As at July 01,	Charge during the	Adjustments	As at June 30,	June 30,
No.	Description	2021		2022	2021	year		2022	2022
~. <sub>1</sub>	Freehold	436 055 837	40 752 075	470 700 842	0				170 700 010
2	Lessehold	430,900,007	42,755,975	479,709,012	700.404	0	0	U 700 404	479,709,812
2	Total	2,513,780	245,961.02	2,709,741	790,164	0	· · · · · · · · · · · · · · · · · · ·	790,164	1,969,577
	Puildinge	439,469,617	42,999,930	482,469,553	790,164	0	0	/90,164	481,679,389
D.	Desidential Ruildings	4 952 757 202	0	0.005.400.074	000 (01.010	0	. 0	0	0
	Nen Desidential Buildings	1,853,757,262	181,381,012	2,035,138,274	236,484,316	38,478,720	0	274,963,035	1,760,175,239
2	Non-Residential Buildings	1,843,696,891	180,396,654	2,024,093,545	457,240,542	38,269,895	. 0	495,510,437	1,528,583,108
3	Non CSO Residential Buildings	1,305,086,292	127,696,261	1,432,782,553	550,902,389	27,089,874	0	577,992,263	854,790,291
4	Non-GSO Residential Buildings	59,038,556	5,776,632	64,815,188	4,844,942	1,225,472	0	6,070,415	58,744,773
		5,061,579,001	495,250,559	5,556,829,560	1,249,472,189	105,063,961	0	1,354,536,150	4,202,293,411
	122 K/ Sub Transmission				U	. 0	0	0	0
	132 KV Sub Transmission Lines	11,632,229,593	1,410,255,167	13,042,484,760	3,810,229,011	428,861,237	· · 0	4,239,090,248	8,803,394,512
2	66 KV Sub Transmission Lines	308,161,705	37,360,562	345,522,267	100,940,809	11,361,417	• 0	112,302,226	233,220,041
3	33 KV Sub Transmission Lines	0	0	0	0	0	0	0	0
	lotal	11,940,391,298	1,447,615,729	13,388,007,027	3,911,169,821	440,222,654	0	4,351,392,474	9,036,614,552
D.	Grid Station		0	<u>,</u> 0	0	0	. 0	0	0
1	132 KV Grid Station	23,060,620,487	2,795,797,567	25,856,418,054	7,553,689,041	850,207,275	0	8,403,896,316	17,452,521,738
2	66 KV Grid Station	1,824,057,041	221,142,976	2,045,200,016	597,484,343	67,249,993	0	664,734,336	1,380,465,680
3	33 KV Grid Station	0	0	0	0	0	0	0	0
L	Jotal	24,884,677,528	3,016,940,542	27,901,613,070	8,151,173.384	917,457,268	0	9,068,630,652	18,832,987,418
Ε.	11 KV Distribution Equipments	0	0	0	0	. 0	. 0	0	0
1	11 KV Poles	11,341,502,529	1,375,008,326	12,716,510,854	3,714,999,057	418,142,607	0	4,133,141,663	8,583,369,191
2	11KV Line	24,638,587,228	2,987,105,323	27,625,692,551	8,070,564,556	908,384,322	. 0	8,978,948,878	18,646,743,674
3	Distribution Transformer	36,621,785,942	4,439,910,890	41,061,696,832	11,995,756,285	1,350,185,215	0	13,345,941,500	27,715,755,332
	Total	72,601,875,699	8,802,024,539	81,403,900,238	23,781,319,897	2,676,712,144	0	26,458,032,041	54,945,868,197
F.	LV Distribution Equipments	0	0	0	0	0	0	0	0
1	LV Poles	9,210,743,417	1,116,681,750	10,327,425,166	3,017,052,019	339,585,011	. 0	3,356,637,030	6,970,788,136
2	* 440 LV Distribution Line	0	0	. 0	. 0	0	0	0	. 0
3	220 LV Distribution Line	13,536,442,712	1,641,116,015	15,177,558,727	4,433,969,113	499,066,453	. 0	4,933,035,566	10,244,523,161
4	KWh Meters & Service Cable	10,746,942,120	1,302,925,680	12,049,867,800	3,520,246,082	396,222,139	0	3,916,468,221	8,133,399,579
5	Misc. Equipment	22,089,579,690	2,678,071,615	24,767,651,304	7,235,616,931	814,406,593		8,050,023,523	16,717,627,781
L	Total	55,583,707,938	6,738,795,059	62,322,502,997	18,206,884,145	2,049,280,195	0	20,256,164,340	42,066,338,657
G.	Vehicles	0	0	0	0	· 0.	• • 0	0	0
1	132/66/33 KV GSO Vehicles	357,684,758	52,895,759	410,580,518	208,138,875	23,693,110	. 0	231,831,984	178,748.533
2	Vehicles	853,209,950	126,175,877	979,385,826	725,148,146	56,516,797	. 0	781,664,943	197,720,884
	Total	1,210,894,708	179,071,636	1,389,966,344	933,287,021	80,209,907	0	1,013,496,927	376,469,417
н.	Detail of General Plant Assets	. 0	0	0	0	0	0	0	0
1	Computer Equipment	683,223,024	101,037,575	784,260,599	312,684,548	45,256,829	. 0	357,941,377	426,319,222
2	Furniture/Work shop/Mis.Equip.	973,978,638	144,035,602	1,118,014,240	542,679,759	64,516,539	0	607,196,298	510,817,941
3	Workshop Equipment	.0	0	0	0	0	0	0	0
4	Laboratory Equipment	576,095	85,195	661,290	160,906	38,161	o	199,067	462,223
5	Misc. Equipment	137,826,231	20,382,258	158,208,489	38,723,999	9,129,637	0	47,853,636	110,354,853
	Total	1,795,603,988	265,540,630	2,061,144,618	894,249,213	118,941,166	. 0	1,013,190,379	1,047,954,239
J.	O&M Equipments							······································	
	Grand Total	173,518,199,777	20,988,238,630	194,506,438,407	57,128,345,833	6,387,887,294	0	63,516,233,127	130,990,205,280

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DF - FORM 13 Asset register as the year ended at date June 30, 2023 (Projected)

Description         As it July 01, 2023         Actilition disitions         As at July 01, 2023         Carrow or available for available			Cost Accumulated Depreciation				Book Value as on			
0.0.         Description         1922         2023         2024         year         2023         2024           Issuedbid         4         1.5         0.5         277.05/1         0         0         0         0         127.25.05           Total         2.759.241         2.759.441         2.759.441         2.759.441         2.759.441         0         789.154         0         789.154         0         789.154         0         789.154         0         789.154         0         789.154         0         789.154         0         789.154         0         779.056         117.20.061         117.27.051         11.20.222.05.01.547         2.759.250         45.510.40.77         0         577.61.051         1169.228         0         777.057.77         11.69.228.055         45.510.40.77         0         577.61.051         11.69.228.055         11.69.228.055         117.20.055         11.59.27.77         0         777.057.77         0         577.61.077         0         577.61.077         0         577.61.077         0         577.61.077         0         577.61.077         577.61.077         577.61.077         577.61.077         577.61.077         577.61.077         577.61.077         577.61.077         577.61.077         577.61.077		<b>D</b> 1	As at July 01,	Addition/ deletions	As at June 30,	As at July 01,	Charge during the	Adjustments	As at June 30,	June 30,
Image         Image         44,041,152         527,770,371         0	NO. A	Description	2022		2023	2022	year		2023	2023
2         Larsen-bit         44,040,149         52,27,79,4         22,24,05,71           Total         402,493,55         49,337,645         20,802,24         790,064         0         0         780,164         20,240,071           B.         Buildings         402,493,555         49,337,645         630,407,406         40,307,845         0         0         7780,164         20,210,011         100,117,273,101         101,172,773,101         11,172,773,101         11,172,773,101         11,172,773,101         11,172,773,101         11,172,773,101         11,172,773,101         11,172,773,101         11,172,773,101         11,172,773,171,172,773,171,172,773,171,172,773,171,172,773,171,172	1	Ereebold	170 700 040	10 004 450	507 770 074			·		577 770 071
Teal         1.2/19/14         2/19/14         2/19/14         2/19/14         0         10/16         2,2/20/14           1         Teal         48/14/20         49/146         30/20/20         7/20/14         0         <	2	Lessebold	479,709,812	48,061,159	527,770,971	700 404	0	0	700 164	027,770,971
B.         Definings         482,492,632         482,492,632         799,143         0         0         179,1143         0         0         179,1143         0         0         0         179,1143         0	4	Total	2,759,741	276,492.92	3,036,234	790,164	0	0	790,164	2,240,070 520,017,044
Image         Image         2,03,138,274         203,896,399         2,228,034,674         274,963,035         42,333,025         0         317,226,881         1,261,723,813           2         Non-Residential Buildings         2,024,93,545         202,789,600         2,228,034,674         42,014,0779         0         537,61,61,61         1,662,268,86           SGD Fondomilia Buildings         4,415,148         0,400,703         71,308,801         6,077,04,15         1,346,220         7,416,664         6,388,0220           Total         5,556,227,667         0,013,557,167,11         1,346,558,160         0         0         0         7,410,202,257         4,443,439,881           1         132 KV Sub Transmission Lines         13,042,448,760         1,566,263,001         1,237,339,447         433,192,274         443,156,864         0<		Buildings	482,469,553	48,337,652	530,807,205	790,164	0	0	790,164	530,017,041
-         -         2,003,108,095         2,223,003,004,07         2,423,004,07         0         317,249,00         1,317,107,85           3         200 Fossional Dublings         2,243,004,264         2,223,083,203,048         577,0223         2,0403,050,05         0         0777,016,516         1,082,206,803           1         200 Fossional Dublings         6,443,143         443,547,465         1,042,203         2,0403,0503         0         0777,016,516         53,033,012           1         Total         5,566,220,660         556,727,47         6,113,597,107         1,346,280,100         0         1,471,102,027         4,443,480,851           2         Stob Transmission Lines         3,566,220,660         1,660,285,010         4,310,422,84         480,429,400         0         4,719,818,646         6,812,220,513           3         Stob Transmission Lines         3,565,222,67         1,609,822,207         1,497,839,464         420,349,400         0         4,719,818,646         0,105,220,270         0 </td <td>1</td> <td>Residential Buildings</td> <td>0 005 400 074</td> <td>000 000 000</td> <td></td> <td>074.000.005</td> <td>10 000 005</td> <td>0</td> <td>247 206 264</td> <td>1 001 707 910</td>	1	Residential Buildings	0 005 400 074	000 000 000		074.000.005	10 000 005	0	247 206 264	1 001 707 910
a         concentration densinge         2.027,493,294         2.027,493,00         2.220,083,303         4.93,07,30         4.20,07,99         0         3.93,07,07         4.20,07,99         0         3.93,07,07         4.20,07,99         0         3.93,07,07         4.20,07,99         0         3.93,07,07         4.20,07,99         0         3.93,07,07         4.20,07,07         0         <	2	Non-Residential Buildings	2,035,138,274	203,896,399	2,239,034,674	274,963,035	42,333,825	0	517,290,001	1,921,737,013
Socie         Construction         1.43,24,742,353         1.43,24,745,355         1.43,24,745         2.44,00,453         0         0.7,76,166         0.7,76,176           Total         S.566,872,690         556,727,477         6,13,557,107         1.344,250         0         1.470,722,227         4,453,40,861           Sub Transmission         13,042,464,760         1,568,262,690         556,727,477         6,13,557,107         1.344,508,150         0	2	GSO Pasidential Buildings	2,024,093,545	202,789,850	2,226,883,395	495,510,437	42,104,079	0	007,014,010	1,009,200,000
Inter-Order Resentation Counting         Description         Descrescription         Description         <	. J	Non GSO Residential Buildings	1,432,782,553	143,547,595	1,576,330,148	577,992,263	29,803,953	0	507,795,215	968,533,932
C         5,566,227,507         5,566,227,507         6,173,257,107         1,13,350,107         0         1,747,127,237         1,242,247,200         1,2562,226,201           1         122 KV Sub Transmission Lines         34,522,267         1,568,280,501         14,610,775,501         4,230,500,226         12,272,7264         0         4,719,519,464         8,881,220,913           2         65 KV Sub Transmission Lines         34,522,267         1,328,07,002         14,897,839,306         112,302,272,64         0	-	Total	5 550 800 530	6,493,703	/1,308,891	6,070,415	1,348,250	0	7,418,664	63,890,220
O         O		Sub Transmission	5,556,829,560		6,113,557,107	1,354,535,150	115,590,107	0	1,470,120,257	4,043,430,651
1         1	-1	132 KV Sub Transmission Lines	12 042 494 700		14 010 770 504	0	400 400 400	. 0	. 4 740 540 640	0.001.050.010
a browninsson bulks         349,224,267         41,347,119         307,039,369         112,302,226         122,12,398         0         123,022,169         0	2	66 KV Sub Transmission Lines	13,042,484,760	3,568,285,801	14,610,770,561	4,239,090,248	480,429,400	0	4,719,519,649	9,091,230,913
Dr. Octo         Dr. Octo         Directory         Directory <thdirectory< th=""> <thdirectory< th=""> <thdir< td=""><td>2</td><td>33 KV Sub Transmission Lines</td><td>345,522,267</td><td>41,547,119</td><td>387,059,386</td><td>112,302,220</td><td>12,727,364</td><td>0</td><td>120,029,790</td><td>202,039,590</td></thdir<></thdirectory<></thdirectory<>	2	33 KV Sub Transmission Lines	345,522,267	41,547,119	387,059,386	112,302,220	12,727,364	0	120,029,790	202,039,590
D         Grid Station         13,350,0027         10,152,202,003         10,152,202,003         0	Ű	Total	13 388 007 037	0	11 007 000 17	4 354 303 474	402.456.004	0	4 844 540 420	10 152 200 500
Index KW Grid Station         25,656,418,054         3,109,089,666         22,855,507,622         6,403,896,316         952,439,442         0         9,165,336,258         19,609,17,186           2         66 KV Grid Station         2,045,200,015         245,923,666         2,201,123,273         664,724,335         75,530,428         0         7/40,070,764         1,151,053,106           33 KV Grid Station         0 <td>D</td> <td>Grid Station</td> <td>13,358,007,027</td> <td>1,609,832,920</td> <td>14,997,839,947</td> <td>4,351,392,474</td> <td>493,150,964</td> <td></td> <td>4,044,549,439</td> <td>10,153,290,509</td>	D	Grid Station	13,358,007,027	1,609,832,920	14,997,839,947	4,351,392,474	493,150,964		4,044,549,439	10,153,290,509
Inc. Nr. Soutowin         22,0,0,3,16,0,04         3,109,049,049         22,0,12,2,2,0,122         6,40,0,80,3,10         32,0,2,3,9,942         0         9,305,38,2,29         12,504         7,534,242         0         7,534,242         0         7,534,242         0         7,534,242         0         7,534,242         0         7,630,424         0         7,630,424         0         7,630,424         0         7,630,424         0         7,630,424         0 <t< td=""><td>1</td><td>132 KV Grid Station</td><td>05 dec 449 054</td><td></td><td>00 005 507 000</td><td>0</td><td></td><td>U</td><td>0 350 000 050</td><td>10 000 171 204</td></t<>	1	132 KV Grid Station	05 dec 449 054		00 005 507 000	0		U	0 350 000 050	10 000 171 204
b or to stand         2,04,00,015         249,223,635         2,201,129,73         094,739,305         173,530,720         0         170,07,04         1,131,031,003           3         Total         27,00,1518,070         3,355,013,424         31,256,631,494         9,056,630,652         1,027,776,370         0         10,096,470,022         21,116,224,472           1         11 KV Distribution Equipments         0	2	66 KV Grid Station	25,050,410,054	3,109,089,568	28,950,507,522	664 734 336	352,439,942	· 0	9.300.330.238	19,009,171,304
Total         27,901,618,070         3,355,013,424         31,256,631,464         9,068,630,652         1,027,776,370         0         10,066,07,022         21,160,224,472           E.         11 KV Delse         12,716,510,654         1,529,089,264         14,245,600,118         4,133,141,663         468,421,915         0         4,601,633,576         9,640,036,500           2         11 KV Delse         12,716,510,654         1,529,089,264         14,245,600,118         4,133,141,663         468,421,915         0         4,601,633,576         9,640,036,500           2         11KV Line         22,762,692,551         3,321,834,924         45,999,130,076         1,512,537,431         0         14,868,478,931         31,110,057,147           Total         81,403,900,238         9,788,363,344         91,922,63,672         26,458,032,041         2,998,671,799         0         29,456,003,840         61,735,659,833           F.         LV Distribution Equipments         0<	3	33 KV Grid Station	2,045,200,015	245,923,050	2,291,123,573	004,734,330	70,330,428	. 0	740,070,764	1,001,000,1001
E.         11 RV Distribution Equipments         0 <th< td=""><td>Ŭ</td><td>Total</td><td>27 001 618 070</td><td>2 255 042 424</td><td>21.250.024.404</td><td>0.058.630.653</td><td>1 007 776 270</td><td>0</td><td>10 000 407 022</td><td>24 460 224 473</td></th<>	Ŭ	Total	27 001 618 070	2 255 042 424	21.250.024.404	0.058.630.653	1 007 776 270	0	10 000 407 022	24 460 224 473
In the second pupper	E.	11 KV Distribution Equipments	27,501,010,070	3,355,013,424	31,230,031,494	9,068,630,652	1,021,110,310		10,096,407,022	21,100,224,472
Introduct         Transformer         Transformer <thtransformer< th=""> <thtransformer< th="">         &lt;</thtransformer<></thtransformer<>	1	11 KV Poles	12 716 510 864	1 520 080 264	14 245 600 118	4 122 141 662	469 421 015	0	4 601 562 579	0 644 026 540
Antroduction         Zar, 122, 193, 923         3, 32, 193, 923         3, 32, 193, 924         3, 92, 193, 927         1, 191, 191, 191, 193         0         9, 990, 901, 931         Z0, 901, 931         Z1, 901, 901, 901, 901, 901, 901, 901, 90	2	11KV Line	27 625 602 654	1,529,009,204	14,245,600,116	4,133,141,003	400,421,913	0	4,001,000,070	9,044,030,340
Total         43,859,730,743         43,859,730,763         15,25,37,733         0         14,303,476,831         31,140,05,717           Total         81,403,900,238         9,788,363,434         91,192,263,672         26,458,032,041         2,998,571,799         0         29,456,603,840         61,735,659,833           F.         LV Distribution Equipments         0	3	Distribution Transformer	41 061 805 833	3,321,034,923	45 000 126 078	10 245 044 500	1,017,012,400		14 959 479 021	20,930,900,143
F.         UD Stribution Equipments         0 <td>-</td> <td>Total</td> <td>81 403 000 238</td> <td>9 788 262 424</td> <td>40,999,130,070</td> <td>26 469 022 041</td> <td>2 008 571 700</td> <td>0</td> <td>29 456 603 840</td> <td>61 715 650 812</td>	-	Total	81 403 000 238	9 788 262 424	40,999,130,070	26 469 022 041	2 008 571 700	0	29 456 603 840	61 715 650 812
LV Poles         10.327,425,163         1,241,815,080         11,569,240,246         3,356,637,030         380,418,208         0         3,737,055,238         7,832,185,008           2         440 LV Distribution Line         10,327,425,163         0	F.	LV Distribution Equipments		5,100,303,454	51,152,203,072	20,430,032,341	2,350,571,755		23,430,003,040	01,730,033,033
2         440 LV Distribution Line         0 <td>1</td> <td>LV Poles</td> <td>10 327 425 166</td> <td>1 241 815 080</td> <td>11 560 240 246</td> <td>3 356 637 030</td> <td>380 418 208</td> <td>0</td> <td>3 737 055 238</td> <td>7 832 185 008</td>	1	LV Poles	10 327 425 166	1 241 815 080	11 560 240 246	3 356 637 030	380 418 208	0	3 737 055 238	7 832 185 008
3         220 LV Distribution Line         15,177,558,727         1,825,016,497         17,002,575,224         4,933,035,666         559,076,401         0         5,492,111,967         11,510,463,257           4         KWh Meters & Service Cable         12,049,867,800         1,448,929,167         13,498,796,967         3,916,468,221         443,865,634         0         4,360,333,855         9,138,463,112           5         Misc. Equipment         24,767,651,304         2,978,171,460         27,745,822,764         8,050,023,523         912,334,428         0         8,962,357,951         18,783,464,813           7 total         62,322,502,997         7,493,932,204         69,816,435,201         20,255,164,340         2,295,694,670         0 <td>2</td> <td>440 LV Distribution Line</td> <td>10,021,420,100</td> <td>1,241,013,000</td> <td>11,505,240,240</td> <td>0,000,007,000</td> <td>000,410,200</td> <td></td> <td>0,101,000,200</td> <td>1,032,103,000</td>	2	440 LV Distribution Line	10,021,420,100	1,241,013,000	11,505,240,240	0,000,007,000	000,410,200		0,101,000,200	1,032,103,000
4         KWh Meters & Service Cable         11,048,051,01         11,048,070,01         11,048,070,051         0 <td>3</td> <td>220 LV Distribution Line</td> <td>15.177.558.727</td> <td>1 825 016 497</td> <td>17 002 575 224</td> <td>4 933 035 566</td> <td>559 076 401</td> <td>Ő</td> <td>5 492 111 967</td> <td>11 510 463 257</td>	3	220 LV Distribution Line	15.177.558.727	1 825 016 497	17 002 575 224	4 933 035 566	559 076 401	Ő	5 492 111 967	11 510 463 257
5         Misc. Equipment         24,767,651,304         2,978,171,460         27,745,822,764         8,050,023,523         912,334,428         0         8,962,357,951         18,783,464,813           Total         62,322,502,997         7,493,932,204         69,816,435,201         20,256,64,340         2,295,694,670         0         22,551,859,011         47,264,576,190           G.         Vehicles         0	4	KWh Meters & Service Cable	12.049.867 800	1 448 929 167	13 498 796 967	3 916 468 221	443 865 634	0	4 360 333 855	9 138 463 112
Total         62,322,502,997         7,493,932,204         658,816,435,201         20,256,164,340         2,295,694,670         0         22,551,859,011         47,264,576,190           G.         Vehicles         0<	5	Misc. Equipment	24,767,651,304	2,978,171,460	27 745 822 764	8 050 023 523	912,334,428	Ő	8 962 357 951	18 783 464 813
G.         Vehicles         0		Total	62.322.502.997	7,493,932,204	69 816 435 201	20 256 164 340	2 295 694 670	0	22 551 859 011	47,264,576,190
1       132/66/33 KV GSO Vehicles       410,580,518       52,410,929       462,991,447       231,831,934       26,717,263       0       258,549,248       204,442,200         2       Vehicles       979,385,826       125,019,379       1,104,405,206       781,664,943       63,730,517       0       845,395,460       259,009,745         Total       1,389,966,344       177,430,309       1,567,396,653       1,013,496,927       90,447,781       0       1,103,944,708       463,451,945         H       Detail of General Plant Assets       0	G.	Vehicles	0	0	0	0		0	0	0
2         Vehicles         979,385,826         125,019,379         1,104,405,206         781,664,943         63,730,517         C         Bets,395,460         259,009,745           Total         1,389,966,344         177,430,309         1,567,396,653         1,013,496,927         90,447,781         0         1,103,944,708         463,451,945           H.         Detail of General Plant Assets         0	1	132/66/33 KV GSO Vehicles	410,580.518	52,410,929	462.991 447	231.831.934	26,717,263	0	258,549 248	204,442,200
Total         1,389,966,344         177,430,309         1,567,396,653         1,013,496,927         90,447,781         0         1,103,944,708         463,451,945           H.         Detail of General Plant Assets         0	2	Vehicles	979.385.826	125.019.379	1 104 405 206	781 664 943	63 730 517	c	845 395 460	259 009 745
H.         Detail of General Plant Assets         0 <t< td=""><td></td><td>Total</td><td>1.389.966.344</td><td>177.430.309</td><td>1,567,396,653</td><td>1.013.496.927</td><td>90.447.781</td><td>0</td><td>1,103,944,708</td><td>463.451.945</td></t<>		Total	1.389.966.344	177.430.309	1,567,396,653	1.013.496.927	90.447.781	0	1,103,944,708	463.451.945
1       Computer Equipment       784,260,599       100,111,489       884,372,088       357,941,377       51,033,344       0       408,974,721       475,397,367         2       Furniture/Work shop/Mis.Equip.       1,118,014,240       142,715,406       1,260,729,646       607,196,298       72,751,335       0       679,947,633       580,782,013         3       Workshop Equipment       0 <td>H.</td> <td>Detail of General Plant Assets</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	H.	Detail of General Plant Assets	0	0	0	0	0	0	0	0
2         Furniture/Work shop/Mis.Equip.         1,118,014,240         142,715,406         1,260,729,646         607,196,298         72,751,335         0         679,947,633         580,782,013           3         Workshop Equipment         0 <td>1</td> <td>Computer Equipment</td> <td>784,260,599</td> <td>100.111.489</td> <td>884 372 088</td> <td>357.941.377</td> <td>51.033.344</td> <td>0</td> <td>408.974.721</td> <td>475.397.367</td>	1	Computer Equipment	784,260,599	100.111.489	884 372 088	357.941.377	51.033.344	0	408.974.721	475.397.367
3         Workshop Equipment         0	2	Furniture/Work shop/Mis.Equip.	1,118,014,240	142.715.406	1,260,729,646	607,196,298	72,751,335	. 0	679,947,633	580,782 013
4         Laboratory Equipment         661,290         84,414         745,704         199,067         43,031         0         242,098         503,606           5         Misc. Equipment         158,208,489         20,195,439         178,403,928         47,853,636         10,294,930         0         58,148,567         120,255,362           Total         2,061,144,618         263,106,749         2,324,251,366         1,013,190,379         134,122,640         0         1,147,313,019         1,176,938,347           J.         O&M Equipments	3	Workshop Equipment	.,		.,200,720,040	0	0	0	0.0101010	0
Misc. Equipment         158.208,489         20,195,439         178,403,928         47,853,636         10,294,930         0         58,148,567         120,255,362           Total         2,061,144,618         263,106,749         2,324,251,366         1,013,190,379         134,122,640         0         1,147,313,019         1,176,938,347           J.         O&M Equipments	4	Laboratory Equipment	661.290	84.414	745 704	199.067	43 031	n	242 098	503 606
Total         2,061,144,618         263,106,749         2,324,251,366         1,013,190,379         134,122,640         0         1,147,313,019         1,176,938,347           J.         O&M Equipments	5	Misc. Equipment	158,208,489	20,195,439	178 403 928	47.853.636	10,294,930	0	58,148 567	120.255.362
J.         O&M Equipments         Interview		Total	2,061.144.618	263.106.749	2,324,251,366	1.013.190.379	134.122.640	0	1,147.313.019	1,176.938.347
Grand Total 194,506,438,497 23,292,744,239 217,799,182,646 63,516,233,127 7,155,360,331 0 70,671,593,459 147,127,589,188	J.	O&M Equipments	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					*		
		Grand Total	194,506,438,407	23,292,744,239	217,799,182,646	63,516,233,127	7,155,360,331	0	70,671,593,459	147,127,589,188

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DF - FORM 13 Asset register as the year ended at date June 30, 2024 (Projected)

		Cost Accumulated Depreciation					Book Value as on		
		As at July 01,	Addition/ deletions	As at June 30,	As at July 01,	Charge during the	Adjustments	As at June 30,	June 30,
No.	Description	2023		2024	2023	year		2024	2024
A.	Errophold	F07 770 074	10 540 070	577 047 044	0				
	Freehold	527,770,971	49,546,270	577,317,241	700.404	0			5/7,317,241
2	Leasenou	3,030,234	200,030.00	3,321,271	790,164	0	0	790,164	2,531,107
	Duildinge	530,807,205	49,831,307	580,638,512	790,164	U	0	/90,164	579,848,348
в.	Bundings	0		0.440.004.500		0	0	0	0
	Nex Desidential Buildings	2,239,034,674	210,196,890	2,449,231,563	317,296,861	46,308,055	( · 0	363,604,916	2,085,626,648
2	Non-Residential Buildings	2,226,883,395	209,056,148	2,435,939,543	537,614,516	46,056,740	0	583,671,256	1,852,268,287
3	GSO Residential Buildings	1,576,330,148	147,983,280	1,724,313,428	607,796,216	32,601,899	0	640,398,115	1,083,915,312
4	Non-GSO Residential Buildings	71,308,891	6,694,361	78,003,252	7,418,664	1,474,821	0	8,893,486	69,109,766
-		6,113,557,107	5/3,930,679	6,687,487,786	1,470,126,257	126,441,516	. 0	1,596,567,773	5,090,920,013
С.	Sub Transmission	0	0	0	0	0	0	0	0
	132 KV Sub Transmission Lines	14,610,770,561	1,610,227,480	16,220,998,041	4,/19,519,649	533,376,685	С	5,252,896,334	10,968,101,707
	65 KV Sub Transmission Lines	387,069,386	42,658,240	429,727,626	125,029,790	14,130,246	0	139,160,036	290,567,590
3	33 KV Sub Transmission Lines	0	0	0	0	0	0	0	0
		14,997,839,947	1,652,885,720	16,650,725,667	4,844,549,439	547,506,931	0	5,392,056,370	11,258,669,297
D.	Grid Station	0	0	· 0	0	0	0	0	0
1	132 KV Grid Station	28,965,507,622	3,192,237,955	32,157,745,577	9,356,336,258	1,057,406,683	0	10,413,742,940	21,744,002,636
2	66 KV Grid Station	2,291,123,873	252,500,756	2,543,624,629	740,070,764	83,639,124	0	823,709,888	1,719,914,740
3	33 KV Grid Station	0	0	0	0	0	0	0	0
	total	31,256,631,494	3,444,738,711	34,701,370,206	10,096,407,022	1,141,045,807	0	11,237,452,829	23,463,917,377
E.	11 KV Distribution Equipments	0	0	· 0	0	0	0	0	0
1	11 KV Poles	14,245,600,118	1,569,982,683	15,815,582,801	4,601,563,578	520,045,875	0	5,121,609,453	10,693,973,348
2	11KV Line	30,947,527,476	3,410,672,898	34,358,200,374	9,996,561,331	1,129,761,742	0	11,126,323,073	23,231,877,301
3	Distribution Transformer	45,999,136,078	5,069,484,367	51,068,620,445	14,858,478,931	1,679,231,537	0	16,537,710,468	34,530,909,978
<u>-</u>	Total	91,192,263,672	10,050,139,948	101,242,403,621	29,456,603,840	3,329,039,154	0	32,785,642,994	68,456,760,626
F.	LV Distribution Equipments	0	0	0	0	0	0	0	Ó
	LV Poles	11,569,240,246	1,275,025,741	12,844,265,987	3,737,055,238	422,343,434	0	4,159,398,672	8,684,867,315
2	440 LV Distribution Line	0	. 0	. 0	0	0	0	0	0
	220 LV Distribution Line	17,002,575,224	1,873,824,090	18,876,399,314	5,492,111,967	620,691,234	0	6,112,803,201	12,763,596,113
4	KWh Meters & Service Cable	13,498,796,967	1,487,678,814	14,986,475,781	4,360,333,855	492,783,289	0	4,853,117,144	10,133,358,637
5	Misc. Equipment	27,745,822,764	3,057,818,619	30,803,641,383	8,962,357,951	1,012,881,210	0	9,975,239,161	20,828,402,222
	Total	69,816,435,201	7,694,347,264	77,510,782,464	22,551,859,011	2,548,699,166	0	25,100,558,177	52,410,224,287
G.	Vehicles	0	0	0	0	0	0	0	0
1	132/66/33 KV GSO Vehicles	462,991,447	56,185,269	519,176,716	258,549,248	29,959,199	0	288,508,447	230,668,269
2	Vehicles	1,104,405,206	134,022,569	1,238,427,774	845,395,460	71,463,729	0	916,859,190	321,568,585
	Total	1,567,396,653	190,207,837	1,757,604,490	1,103,944,708	101,422,928	0	1,205,367,636	552,236,854
н.	Detail of General Plant Assets	0	0	0	. 0	0	0	0	0
1	Computer Equipment	884,372,088	107,320,953	991,693,041	408,974,721	57,225,851	.0	466,200,572	525,492,469
2	Furniture/Work shop/Mis.Equip.	1,260,729,646	152,992,964	1,413,722,610	679,947,633	81,579,154	0	761,526,787	652,195,823
3	Workshop Equipment	0	0	0	0	0	0	· 0	. 0
4	Laboratory Equipment	745,704	90,493	836,197	242,098	48,253	0	290,351	545,846
5	Misc. Equipment	178,403,928	21,649,801	200,053,729	58,148,567	11,544,142	0	69,692,708	130,361,021
	Total	2,324,251,366	282,054,211	2,606,305,577	1,147,313,019	150,397,399	0	1,297,710,418	1,308,595,159
J.	O&M Equipments								
L	Grand Total	217,799,182,646	23,938,135,676	241,737,318,323	70,671,593,459	7,944,552,903	0	78,616,146,361	163,121,171,961

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Asset register as the year ended at date June 30, 2025 (Projected)

			Cost		,	Accumulated	Depreciation		Book Value as on
No	Description	As at July 01,	Addition/ deletions	As at June 30,	As at July 01,	Charge during the	Adjustments	As at June 30,	June 30,
Δ	Land	2024		2025	2024	year		2025	2025
1 .	Ereehold	F77 047 044						_	
		5/7,317,241	50,207,289	627,524,530		0	0	0	527,524,530
	Total	3,321,271	288,839.48	3,610,110	790,164	0	0	790,164	2,819,946
	Buildings	580,638,512	50,496,129	631,134,641	790,164	0	0	790,164	630,344,477
<b>.</b> .	Residential Buildings	0	0	0		. 0	. 0	. 0	0
	Non Regidential Buildings	2,449,231,563	213,001,222	2,662,232,785	363,604,916	50,335,307	. 0	413,940,222	2,248,292,563
	CSO Decidential Buildings	2,435,939,543	211,845,261	2,647,784.804	583,671,256	50,062,136	0	633,733,392	2,014,051,411
	Non CSO Residential Buildings	1,724,313,428	149,957,592	1,874,271,019	640,398,115	35,437,174	0	675,835,290	1,198,435,730
	Total	78,003,252	6,783,674	84,786,925	8,893,486	1,603,081	0	10,496,567	74,290,359
	Total	6,687,487,786	581,587,748	7,269,075,534	1,596,567,773	137,437,699	0	1,734,005,471	5,535,070,062
	122 KV Sub Transmission	0	0	0	0	0	. 0	0	0
	132 KV Sub Transmission Lines	16,220,998,041	1,641,402,970	17,862,401,011	5,252,896,334	587,349,077	0	5,840,245,411	12,022,155,600
	66 KV Sub Transmission Lines	429,727,626	43,484,143	473,211,769	139,160,036	15,560,086	·, 0	154,720,122	318,491,647
	33 KV Sub Transmission Lines	0	0	0	0	0	· 0	0	0
	lotal	16,650,725,667	1,684,887,113	18,335,612,780	5,392,056,370	602,909,163	0	5,994,965,533	12,340,647,247
U.	Grid Station	0	0	0	0	0	0.	· · 0	0
1	132 KV Grid Station	32,157,745,577	3,254,042,628	35,411,788,204	10,413,742,940	1,164,405,676	0	11,578,148,617	23,833,639,587
	66 KV Grid Station	2,543,624,629	257,389,404	2,801,014,033	823,709,888	92,102,568	0	915,812,457	1,885,201,576
3	33 KV Grid Station	00	0	0	0	0	0		0
	Total	34,701,370,206	3,511,432,032	38,212,802,237	11,237,452,829	1,256,508,245	0	12,493,961,073	25,718,841,164
E.	11 KV Distribution Equipments	0	0	0	0	0	0	0	0
. 1	11 KV Poles	15,815,582,801	1,600,378,997	17,415,961,799	5,121,609,453	572,669,323	0	5,694,278,776	11,721,683,022
2	11KV Line	34,358,200,374	3,476,706,673	37,834,907,047	11,126,323,073	1,244,082,346	0	12,370,405,419	25,464,501,628
3	Distribution Transformer	51,068,620,445	5,167,634,263	56,236,254,708	16,537,710,465	1,849,152,994	0	18,386,863,462	37,849,391,246
	Total	101,242,403,621	10,244,719,933	111,487,123,553	32,785,642,994	3,665,904,663	0	36,451,547,657	75,035,575,896
F.	LV Distribution Equipments	0	0	0	0	0	0	0	0
1	LV Poles	12,844,265,987	1,299,711,416	14,143,977,403	4,159,398,672	465,080,370	0	4,624,479,042	9,519,498,361
2	440 LV Distribution Line	0	0	0	0	0	o	0	0
3	220 LV Distribution Line	18,876,399,314	1,910,103,054	20,786,502,367	6,112,803,201	683,498,986	o	6,796,302,187	13,990,200,180
4	KWh Meters & Service Cable	14,986,475,781	1,516,481,649	16,502,957,429	4,853,117,144	542,648,036	o	5,395,765,179	11,107,192,250
5	Misc. Equipment	30,803,641,383	3,117,020,809	33,920,662,192	9,975,239,161	1,115,374,671	· 0	11,090,613,831	22,830,048,361
	Total	77,510,782,464	7,843,316,928	85,354,099,392	25,100,558,177	2,806,602,063	0	27,907,160,240	57,446,939,152
G.	Vehicles	0	0	0	0	0	0	0	0
1	132/66/33 KV GSO Vehicles	519,176,716	57,765,691	576,942,406	288,508,447	33,292,327	o	321,800,773	255,141,633
2	Vehicles	1,238,427,774	137,792,458	1,376,220,232	916,859,190	79,414,467	0	996,273,656	379,946,575
	Total	1,757,604,490	195,558,148	1,953,162,638	1,205,367,636	112,706,794	0	1,318,074,430	635.088.208
н.	Detail of General Plant Assets	0	0	0	0	0	0	0	0
1	Computer Equiprnent	991,693,041	110,339,758	1,102,032,799	466,200,572	63.592.545	0	529.793.117	572 239 682
2	Furniture/Work shop/Mis.Equip.	1,413,722.610	157,296,466	1.571.019.076	761.526 787	90 655 289	0	852 182 075	718 837 001
3	Workshop Equipment	, .,	0	0	0	0	n	0	0
4	Laboratory Equipment	836.197	93.039	929.236	290 351	53 621	0	343 973	585 263
5	Misc. Equipment	200,053.729	22,258,783	222.312.512	69,692,708	12 828 492	0	82 521 200	139 791 312
	Total	2,606,305.577	289.988.046	2.896.293 623	1,297,710 418	167,129 947	0	1.464.840.365	1 431 453 258
J.	O&M Equipments			_,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			.,	
	Grand Total	241,737,318,323	24,401,986,076	266,139,304,398	78,616,146,361	8,749,198,573	0	87,365,344,934	178,773,959,464

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DF - FORM 14		KAL ANA.		· ;			Power Distribution	Business
MEPCO			s, 1 - 1			This Format relate	d to Power Suppply	Business
	· ·	ACTUAL	ACTUAL	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
Aging of Accounts Receivables as on 30th June		FY ending June 30, 2019	FY ending June 30, 2020	FY ending June 30, 2021	FY ending June 30, 2022	FY ending June 30, 2023	FY ending June 30, 2024	FY ending June 30, 2025
Outstanding for current year ( Not Passed due date)	Rs In Million	16,680	26,421	26,091	26,725	28,127	30,180	32,809
Outstanding for more than 1 year	Rs In Million	918	856	796	740	688	640	595
Outstanding for more than 2 years	Rs In Million	1,045	973	925	878	835	793	753
Outstanding for more than 3 years	Rs In Million	626	583	554	526	500	475	451
Outstanding for more than 4 years	Rs In Million	. 354	446	402	362	325	293	264
Outstanding for more than 5 years	Rs In Million	2,256	2,848	2,706	2,570	2,442	2,320	2,204
Agency Balance	Rs In Million	26,588	23,851	31,051	38,251	45,451	52,651	59,851
Deferred Amount, Credit Bal. & Govt Receivable	Rs In Million	9,065	19,389	9,728	9,118	8,808	8,598	8,488
Total Receivables as on June 30,	Rs In Million	57,532	75,367	72,253	79,170	87,176	95,950	105,415
Provision for Doubtful Debts	Rs In Million	4,073	4,228					
Total Receivables (Incl. Provision for D/ful Debts)as c	n June 30,	61,605	79,595					

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This form should be accompanied with a reconcilation of bad debts written off during the year . In case of quarterly filing, this form should be replaced with the most recent updated figures.

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Projected Energy Sales by Tariffs FY 2020-21

CATEGORY	Ì	Voltage	Energy	Energy Sales	Distribution	Sales Growth	Projection	Sales Growth	Projection
CATEGOIN		Level	Purchased		Losses	rate		rate	
A1 Domestic		LCVC1			· · · · · · · · · · · · · · · · · · ·		1		2
Flat Rate Fata		Lν							
Upto - 50	0.37	LV		62 47		1.50	62.47		
1 -100	9.38	LV		1 570 98		2 10	1 570 98		
101-200	16.08	LV		2 691.56	-	2.10	2 691 56		
201-300	13.32	LV		2 230 29		2.00	2 230 29		
301 - 700	14.88	LV		2 490.53		3.00	2,200.20		
above 700	3.10	LV		518.52		1.60	518 52		
Temporary Domestic	0.00	. LV		0.52		2.36	0.52		
A1 (TOD)	0.72	LV		120.04		2.35	120.04		
Summary	57.85			9,684.91		2.27	9,684.91		••••••
A2 Commercial							-		
A2 - A	2.92	LV		488.58		2.15	488.58		
> 5 kW	0.00	LV		0.18		2.50	0.18		
A2(2) TOD	2.56	LV		428.59		2.40	428.59		
Temporary Commercial	0.04	LV		6.43		3.36	6.43		_
Summary	5.52			923.78		2.27	923.78		
Industry							-		
B-1 400 V Upto 40 kW	0.20	LV		33.49		1.70	33.49		
	2.00	. LV		334.85		1,90	334.85		
B-2 400 V Upto (41-500 kW)	0.00	LV		0.04		2.00	0.04		
B-2 400 V (10D)	6.97			1,167.20		2.00	1,167.20		
B-3 11/33 KV	0.00	HV		-		2.20			
B-3 11/33 KV (10D)	4.13	oto		792.50		2.50	792.50		
B-4 66/132/220 KV	1.42	SIG		-	· ·	2.50	-		
B-4 66/132/220 KV (TOD)	15 22	- 310		238,24		0.01	238.24		
Bulk Supply	10.00			2,300.32		2.21	2,566.32		
C-1(a) upto 20 kW	0.00	IV		0.01		1 9/1	0.01		
C-1(b) above 20 kW	0.00	LV		0.46		1.50	0.46		
C1 (TOD)	0.26	I.V	1. The second	43.81		1.95	43.81		
C-2 11/33 KV	0.01	НV		0.92		2.00	0.92		
C2 (TOD)	1,20	STG		200.06		2.00	200.06		
C-3 (66/132/220 KV)	0.01	STG		1.62		2 00	1.62		
СЗ (ТОВ)	0.21	STG		35.33		2 00	35.33		
Temporary (E2-iia,E2iib,E2iii)	0.00	нv		_			-		
K(A) - AJK	0.00	нv	19 A. 1				_		
K(B) - KESC (Billing)	0.00	STG	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	-			-		
K(C) Rawat Lab	0.00	НV		-			· -		
Summary	1.69			282.21		2.28	282.21		•
Tubewells							-		
D-1 SCARP (46)	0.00	LV		0.07		2.50	0.07		
D-1 a Agri. (41,42)	0.00	LV		0.01		2.00	0.01		
D-1 a Agri TOD (43, 44)	0.00	LV	1	· -		-	-		
D-1 b Agri. TOD (45)	0.29	LV		49.05		2.50	49.05		
D-2 Agri. TOD(47,48)	. 0.00	LV	•	0.07		2.00	0.07		
D-2 Agn. (49,52)	0.00	LV		0.60		2.00	0.60		
D-1 5 Agr. TOD (50, 51)	17.52			2,932.69		2.27	2,932.69		
D-1 b Agri. TOD (53, 54)	0.00			0.40		2.50	0.40		
Summary	17.82			2,982.89		2.27	2,982.89		
GENERAL SERVICE (66)	1.64	ЕŃ.		075 04		5.05	-		
G P LIGHTING	0.11			210.21		2.25	2/5.21		
	0.04	HV .		10.00		2.5/	18.50		
L RAILWAY TR	0.00	HV		0.10		2.57	0.70		
J CO-GEN	0 001	HV		-			-		
	0.00		· · · ·	_					
Summary	1.79			300.47		2.28	300.47		
Total	100.0		19 694 80	16 740 58	2 954	2 27	16 740 58		

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Power Distribution Business
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Projected Energy Sales by Tariffs FY 2021-22

CATEGORY		Voltage	Energy Purchased	Energy Sales	Distribution Losses	Sales Growth rate	Projection	Sales Growth rate	Projection
A1 Domestic		Level					1		Z
Flat Rate Fata		Iv					-		_
Upto - 50	0.36	LV		64.35		3.01	64.35		
1 -100	9.35	LV		1 649 53		5.01	1 649 53		:
101-200	16.05	LV		2.831.53		5 20	2 831 53		
201-300	13.34	LV		2 352 96		5.50	2,352,96		
301 - 700	14.89	LV		2 627 51		5.50	2,602.00		
above 700	3.09	LV		544 45		5.00	544.45		
Temporary Domestic	0.00	LV		0.52		0.00	0.52		
A1 (TOD)	0.71	LV		126.04		5.00	126.04		
Summary	57.79			10,196,89		5.29	10,196,89		
A2 Commercial									
A2 - A	2.91	LV		513.01		5.00	513.01		
> 5 kW	0.00	LV		0.19		5.56	0.19		
A2(2) TOD	2.55	LV		450.02		5.00	450.02		
Temporary Commercial	0.04	LV		6.75		4.98	6.75		
Summary	5.50			969.97		5.00	969.97		
Industry							-		
B-1 400 V Upto 40 kW	0.20	LV		35.50		6.00	35.50		
B1 (TOD)	2.01	LV		354.94		6.00	354.94		
B-2 400 V Upto (41-500 kW)	0.00	LV		0.04		-	0.04		
B-2 400 V (TOD)	7.01	LV		1,237.23		6.00	1,237.23		
B-3 11/33 KV	0.00	HV		-			-		
B-3 11/33 KV (TOD)	4.76	ΗV		840.05		6.00	840.05		1
B-4 66/132/220 KV	0.00	STG		-			-		
B-4 66/132/220 KV (TOD)	1.43	STG		252.53		6.00	252.53		
Summary	15.42			2,720.29		6.00	2,720.29		
Bulk Supply							-		
C-1(a) upto 20 kW	0.00	LV		0.01		-	0.01		
C-1(b) above 20 kW	0.00	LV		0.49		6.52	0.49		
C1 (TOD)	0.26	LV		46.00		5.00	46.00		
C-2 11/33 KV	0.01	HV		0.97		5.43	0.97		
C2 (TOD)	1.19	SIG		210.06		5.00	210.06		
C-3 (66/132/220 KV)	0.01	SIG		1.70		4.94	1.70		
	0.21	SIG		37.10		5.01	37.10		
1 emporary (E2-IIa,E2II0,E2III)	0.00	HV	j	-			-		
K(A) - AJK	0.00	HV		-			•		
K(B) - KESC (Billing)	0.00	SIG		-			-		
K(C) Rawai Lab	1.69	HV		-		5.00	-		· · ·
Tubewalls	1.00			290.33		5.00	296.33		
$D_{-1}$ SCARP (46)	0.00	1.7		0.07			-		
$D-1 = A \sigma r i $ (41 42)	0.00	iv		0.07		-	0.01		
D-1 a Agri TOD (43, 44)	0.00	IV I		0.01		-	0.01		
D-1 b Agri TOD (45)	0.29	iv		51.50		4 99	51.50		
D-2 Agri TOD(47.48)	0.00	iv		0.07		4.55	0.07		1
D-2 Agri (49 52)	0.00	iv		0.67		5.00	0.63		
D-1 b Agri TOD (50, 51)	17.45			3 079 33		5.00	3 079 33		
D-1 b Agri, TOD (53, 54)	0.00			0.42		5.00	0.42		
Summary	17.75			3,132.03		5.00	3,132,03		
Others							-		
GENERAL SERVICE (66)	1.71	LV		302.16		9.79	302.16		
G P LIGHTING	0.11	LV		19.24		4.00	19.24		
H RESIDENTIAL CLY.	0.04	HV		7.05		4.36	7.05		
I RAILWAY TR	0.00	HV		-			-		
J CO-GEN	0.00	HV					-		
	0.00						-		
Summary	1.86			328.46		9.31	328.46		
Total	100.0		20,696.73	17,643.96	3,053	5.40	17,643.96		

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### DF - FROM 15 MEPCO Projected Energy Sales by Tariffs FY 2022-23

CATECODY		Voltage	Energy	Energy Sales	Distribution	Sales Growth	Projection	Sales Growth	Projection	
CATEGORI		Level	Purchased		Losses	rate	1	rate	2	
A1 Domestic		LEVEI	+	·			1		<u> </u>	
Flat Rate Fata	-	LV					-		_	
Upto - 50	0.36	LV		65.64		2.00	65.64			1
1 -100	9.33	LV	-	1,682.52		2.00	1,682,52			
101-200	16.05	LV		2,893.82		2.20	2,893.82			
201-300	13.38	LV		2,411.78		2.50	2,411.78			1
301 - 700	14.94	ιv		2,693.20		2.50	2,693.20			1
above 700	3.08	LV	Ì	555.34		2.00	555.34			
Temporary Domestic	0.00	LV		0.52			0.52			
A1 (TOD)	0.72	LV		129.82		3.00	129.82			l
Summary	57.87			10,432.64		2 31	10,432.64			1
A2 Commercial							-			ł
A2 - A	2.90			523.27		2.00	523.27			1
	0.00			0.19		-	0.19			i
	2.55			459.02		2.00	459.02			
Temporary Commercial	6.40			6.89		2.12	6.89			i i
Industry	5.49			989.38		2.00	989.38			
B-1 400 V Hoto 40 kW	0.20	11		20.01			-			~
B1 (TOD)	2.01			30.21		2.00	36.21			لخب
B-2 400 V Linto (41-500 k\\/)	0.00			302.03		2.00	362.03			
$B-2 400 \vee (TOD)$	7.00			1 261 08		-	0.04			i
B-3 11/33 KV	0.00	HV		1,201.50		2.00	1,201.90			į
B-3 11/33 KV (TOD)	4.75	ну		856.85		200	856.95			
B-4 66/132/220 KV	0.00	STG		-		2.00	000.00			
B-4 66/132/220 KV (TOD)	1.43	STG		257.58		2.00	257 58			
Summary	15.39			2,774,70		2.00	2 774 70			
Bulk Supply							-			
C-1(a) upto 20 kW	0.00	LV		0.01			0.01			
C-1(b) above 20 kW	0.00	LV		0.50		2.04	0.50			
C1 (TOD)	0.26	LV		46.92		2.00	46.92			
C-2 11/33 KV	0.01	HV		0.99		2.06	0.99			
C2 (TOD)	1.19	STG		214.26		2.00	214.26			
C-3 (66/132/220 KV)	0.01	STG		1.74		2.35	1.74			
C3 (TOD)	0.21	STG		37.84		1.99	37.84			
Temporary (E2-iia,E2iib,E2iii)	0.00	HV		-			-			
K(A) - AJK	0.00	ΗV		-			-			
K(B) - KESC (Billing)	0.00	STG		-			-			
K(C) Rawat Lab	0.00	HV		<u> </u>			-			
Summary	1.68			302.26		2.00	302.26			
Tubewells	0.00						-			
D = 1 - 3 CARP (40)	0.00	. LV		-		(100.00)	-			
D-1 a Agri TOD (43, 44)	0.00	- LV		-		(100 00)	-			-\
D-1 b Agri TOD (45)	0.00			-			-		(	
D-2 April TOD(47.48)	0.23			02.03		2.00	52.53			
D-2 Anri (49 52)	0,00	iv	-	0.00	5	14.29	0.08			
D-1 b Agri TOD (50, 51)	17.42			3 140 91		2.54	2 140 01			
D-1 b Agri. TOD (53, 54)	0.00			0.44		3.57	5,140.91	1		
Summary	17.72			3 194 60		2.00	3 194 60	·····		
Others				5,101.00		2.00				
GENERAL SERVICE (66)	1.71	LV		308.20		2 00	308.20	ŀ		
G P LIGHTING	0.11	LV		19.63		2.03	19.63			
H RESIDENTIAL CLY.	0.04	нv		7.09		0.45	7.09			
I RAILWAY TR	0.00	HV		]	1		-			
J CO-GEN	0.00	н∨		-			-			
	0.00						-			
Summary	1.86			334.92		1.97	334.92			
Total	100.0		21,109.55	18,028.49	3,081	2.18	18,028.49			

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DF - FROM 15 MEPCO Projected Energy Sales by Tariffs FY 2023-24

ONTEOODY.		Voltage	Energy	Energy Sales	Distribution	Sales Growth	Projection	Sales Growth	Projection
CATEGORY		Level	Purchased		Losses	rate	1	rate	2
A1 Domestic							·•		
Flat Rate Fata	0.00	LV					-		-
Upto - 50	0.36	LV		66.95		2.00	66.95		
1 -100	9.32	LV		1,716.17		2.00	1,716.17		
101-200	16.03	LV		2,951.70		2.00	2,951.70		
201-300	13.36	LV		2,460.02		2.00	2,460.02		
301 - 700	14.99	LV		2,760.53		2.50	2.760.53		
above 700	3.08	LV		566.44		2.00	566.44		
Temporary Domestic	0.00	LV		0.53		1.92	0.53		
A1 (TOD)	0.73	LV		133.71		3.00	133.71		
Summary	57.88			10,656.05		2.14	10,656.05		
A2 Commercial							-		
A2 - A	2.90	LV		533.74		2.00	533.74		
> 5 kW	0.00	LV		0.20		5.26	0.20		
A2(2) TOD	2.54	LV		468.20		2.00	468.20		
Temporary Commercial	0.04	LV		7.02		1.84	7.02		
Summary	5.48			1,009.16		2.00	1,009,16		
Industry							-		
B-1 400 V Upto 40 kW	0.20	1.V		36.93		2.00	• 36.93		
B1 (TOD)	2.01	LV		369.26		2.00	369,26		
B-2 400 V Upto (41-500 kW)	0.00	LV		0.04		-	0.04		
B-2 400 V (TOD)	7.03	LV		1,293.52		2.50	1,293.52		
B-3 11/33 KV	0.00	нν		-			-		
B-3 11/33 KV (TOD)	4.75	нv		873.99		2.00	873.99		
B-4 66/132/220 KV	0.00	STG		-			-		
B-4 66/132/220 KV (TOD)	1.43	STG		262.74		2.00	262.74		
Summary	15.41			2,836.50		2.23	2,836.50		
Bulk Supply							-		
C-1(a) upto 20 kW	0.00	LV		0.01		-	0.01		
C-1(b) above 20 kW	0.00	LV		0.51		2.00	0.51		
C1 (TOD)	0.26	LV		47.86		1.99	47.86		
C-2 11/33 KV	0.01	HV		1.01		2.02	1.01		
C2 (TOD)	1.19	STG		218.55		2.00	218.55		
C-3 (66/132/220 KV)	0.01	STG		1.77	1	1.44	1.77		
C3 (TOD)	0.21	STG		38.60		2.01	38.60		
Temporary (E2-iia,E2iib,E2iii)	0.00	HV		-			-		
K(A) - AJK	0.00	HV		-			-		
K(B) - KESC (Billing)	0.00	STG		-			-		
K(C) Rawat Lab	0.00	. HV							
Summary	1.67			308.30		2.00	308.30		
Tubewells	0.00	157					-		
D-1 SCARP (46)	0.00	LV		-		#DIV/0!	-		
U-1 a Agn. (41,42)	0.00			-		#DIV/0!	-		
	0.00			-					
D-1 b Agri, 10D (45)	0.29			53.84		2.49	53.84		
D-2 Agri. TOD(47,48)	0.00			0.08		-	0.08		
D-2 Agri. (49,52)	0.00	LV		0.66		2.17	0.66		
D-1 b Agn. 10D (50, 51)	17.40			3,203.73		2.00	3,203.73		
D-1 b Agn. 10D (53, 54)	17.70			0.45		3.45	0.45		
Summary				3,258.76		2.01	3,258.76		
GENERAL SERVICE (66)	1 71	11/		214.20		2.00	-		
C D LIGHTING	0.11	11/		314.36		2.00	314.36		
	0.11	ιν μ\/		20.12		2.50	20.12		
	0.04	н.v Ц\/		1.37		4.05	1.31		
	0.00	HV		-			-		
	0.00			-			-		
Summarv	1.86			341.85		2.07	341.85		
Total	100.0		21,532.86	18,410.62	3,122	2.12	18,410.62		

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DF - FROM 15 MEPCO Projected Energy Sales by Tariffs FY 2024-25

CATEGORY		Voltage	Energy Purchased	Energy Sales	Distribution Losses	Sales Growth rate	Projection 1	Sales Growth rate	Projection 2
A1 Domestic		<u> </u>							
Flat Rate Fata	0.00	LV					-		-
Upto - 50	0.36	LV		68.29		2.00	68.29		
1 -100	9.33	LV		1,753.93		2.20	1,753.93		
101-200	16.03	LV		3,013.68		2.10	3,013.68		
201-300	13.37	LV		2,514.14		2.20	2,514.14		
301 - 700	15.02	LV		2,824.02		2.30	2,824.02		
above 700	3.08	LV		579.47		2.30	579.47		
Temporary Domestic	0.00	LV ·		0.54		1.89	0.54		
A1 (TOD)	0.73	LV		137.06		2.51	137.06		
Summary	57.93		· ·	10,891.13		2.21	10,891.13		
A2 Commercial							-		
A2 - A	2.90	LV		544.41		2.00	544.41		
> 5 kW	0.00	LV		0.20		-	0.20		
A2(2) TOD	2.54	LV		477.57		2.00	477.57		
Temporary Commercial	0.04	LV		7.16		1.99	7.16		
Summary	5.47			1.029.34		2.00	1.029.34		
Industry							-		
B-1 400 V Upto 40 kW	0.20	LV		37.67		2.00	37.67		(
B1 (TOD)	2.00	LV		376.66		2.00	376.66		
B-2 400 V Upto (41-500 kW)	0.00	LV		0.04			0.04		
B-2 400 V (TOD)	7.02	LV		1 319 40		2.00	1 319 40		
B-3 11/33 KV	0.00	HV		1,010,10		2.00			
B-3 11/33 KV (TOD)	4.74	нv		891 47		2.00	. 891.47		
B-4 66/132/220 KV	0.00	STG		031.11		2.00			
B-4 66/132/220 KV/ (TOD)	1.43	STG		267.00		2 110	267 99		
Summan	15 39			2 803 23		2.00	2 803 23		
Bulk Supply	10,00			2,000.20		2,00	2,050.2.0	· · · · ·	
$C_{1/2}$ upto 20 kW	1 00			0.01	,		0.01		
C-1(b) above 20 kW	0.00			0.01		1.06	0.01		
	0.00	iV		48.82		2.01	49.92		
	0.20			40.02		2.01	40.02		
C2 (TOD)	1 10	STG		222.02		2.00	222.02		
C 2 (FG(122)220 K)A	0.01	STO		222.92		2.00	222.92		
C-3 (00/132/220 KV)	0.01	STC				2.55	1.01		
	0.21			39.37		1.99	39.37		
	0.00			-			-		
	0.00			-			· · · - ·		
K(B) - KESC (Billing)	0.00								
R(C) Rawat Lab	1.00	V	·	-			-		
Summary	1.07			314.48		2.00	314.48		······
Tubewells	0.00					#D1) ((0)			
D-1 SCARP (40)	0.00			-		#UIV/0!			
D-1 a Agri. (41, 42)	0.00			e		#DIV/0!			
	0.00			-			-		
D-1 b Agri. TOD (45)	0.29			54.92		2.01	54.92		$\sim$
D-2 Agr. 100(47,48)	0.00		1. A. 1.	0.08			0.08	and the second	
D-2 Agn. (49,52)	. 0.00	εv	the second	0.68		3.03	88.0		$(1,1,2,\dots,n) \in \mathbb{R}^{n}$
D-1 b Agn. (OD (50, 51)	17.38			3,267.80		2.00	3,267.80		
D-1 b Agri. TOD (53, 54)	0.00			0.46	·	2.22	0.46		
Summary	17.58	··		3,323.94		2.00	3,323.94		
OTHER AL REPLICE (20)	4.74		• •		1				
GENERAL SERVICE (66)	1./1	LV		320.67		2.01	320.67		
G PLIGHTING	0.11	LV		20.52		1.99	20.52		
H RESIDENTIAL CLY.	0.04	HV		7.47		1.30	7.47	1 - A	
I KALWAY IK	0.00	HV		•			-		
J CO-GEN	0.00	HV	1				-	14	
	0.00						-	<b> </b>	
Summary	1.85		01 000	348.66		1.99	348.66		
Total	100.0		21,963.55	18,800.78	3,163	2.12	18,800.78	and the second second	

DF - FORM 16 MEPCO							•		Power Distributio	on Business
Operating Cost	있었다. 10년 전 18 19 19 19 19 19 19 19 19 19 19 19 19 19	EV 2019 10	EV 2019 10	EV 2010 20	C. 2040 20	EV 2020 24	EV 2024 22	·····		
	e du ele 1 - 1 - 1 I	Determined	Actual	Determined	Actual	Projected	Projected	Projected	Projected	Projected
A Power Purchase Cost										
Energy Charge	[Min Rs]	113,849	106,089	113,849	97,325	-	-	-	-	-
Capacity Charge	[Min Rs]	132,654	112,653	132,654	144,145	-		-	-	-
Transmission Charge	[Min Rs]	7,169	6,984	7,171	7,242	-	-		-	-
Market Operator Fee	[Min Rs]	69	69	67	67	-	-	-	-	
Total Power Purchase Cost	[Min Rs]	253,741	225,795	253,741	248,780	-	-	-		1. Let

\* Provide the detail of adjustment

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		FY 2018-19	FY 2018-19	FY 2019-20	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
B Operation & Maintenance *		Determined	Actual	Determined	Actual	Projected	Projected	Projected	Projected	Projected
Employees Cost **								•		
Salaries, Wages & Benefits	[Min Rs]	8,763	9,616	9,791	9,546	8,823	11,278	13,236	15,253	17,525
Retirement Benefits	(Min Rs)	4,232	8,679	4,655	12,233	7,252	7,977	8,775	9,652	10,618
Total Employees Cost	[Min Rs]	12,995	18,295	14,446	21,779	16,075	19,256	22,011	24,906	28,143
Admin Expenses	[Min Rs]			-	-	-	-	<u> </u>	-	-
Repair & Maintenance	[Min Rs]	1,269	1,726	1,384	1,729	2,551	2,859	3,201	3,552	3,910
ERP	[Min Rs]			-	-	-	-	-	-	-
Travelling	[Min Rs]	963	986	1,051	952	839	972	1,093	1,211	1,344
Transportation	[Min Rs]	356	364	408	399	507	594	697	826	1,001
Management Fee	[Min Rs]		121	-	163	149	160	170	181	193
Misc./Other Expenses	(Min Rs)	1,234	1,323	1,348	1,170	1,197	1,341	1,479	1,638	1,809
Supplemental Charges	[Min Rs]		2,171		1,848	-	-	-	-	-
PM assistance Package for families of Gc	[Min Rs]					605	586	569	552	. 535
Bad Debts	[MIn Rs]		6,955		584	-	-	-	-	-
Total O&M	[Min Rs]	16,818	31,942	18,637	28,623	21,922	25,767	29,220	32,865	36,935

\* The reasons of increase/ decrease in actual expenses against the determined expenses and the justification of the increase required for the period under consideration.

\*\* The details of existing and increase in number of employees department wise along with cost and strength analysis should be provided

C Depreciation & Amortization									
Depreciation	[MIn Rs]	4,699		5,128	5,695	6,388	7,155	7,945	8,749
Amortization of Leased Assets	[Min Rs]								
Total	[MIn Rs]	4,699	-	5,128	5,695	6,388	7,155	7,945	8,749

### DF - FORM 17 MEPCO Distribution Margin Comparison

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Power	Distribution	Business

four source in a give o companio o the		· · · · · · · · · · · · · · · · · · ·								
		Determined	Actual	Determined	Actual	Projected	Projected	Projected	Projected	Projected
		2018-19	2018-19	2019-20	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
D&M Expenses	Rs. In Million	16,818	22,815	18,637	26,191	21,922	25,767	29,220	32,865	36,935
ncrease in %	%age	0.00%	0.00%	10.82%	40.53%	2.53%	17.54%	13.40%	12.48%	12.38%
Depreciation	Rs. In Million	4,699	4,710	5,154	5,131	5,695	6,388	7,155	7,945	8,749
RORB	Rs. In Million	4,122	5,446	6,610	8,232	7,196	8,305	9,748	11,130	12,404
3ad Debts	Rs. In Million	-	6,955	-	584			-	-	-
nterest on short term Loan (working Capital)	Rs. In Million		-	-	-	-		, <del>-</del>		
ncome Tax	Rs. In Million	-	-	-	-	. <del>-</del>	- `	-	= , <sup>1</sup>	-
Other Income (Net of LPS)	Rs. In Million	(4,400)	(4,400)	(4,234)	(5,246)	(5,248)	(5,438)	(5,877)	(6,310)	(6,743)
Distribution Margin	Rs. In Million	21,239	28,572	26,167	34,308	29,564	35,021	40,246	45,629	51,345
Energy Sold	Rs. In Million	16,480	16,310	16,654	16,382	16,741	17,644	18,028	18,4 <b>11</b>	. 18,801
DM per Unit	Rs./ KWH	1.29	1.75	1.57	2.09	1.77	1.98	2.23	2.48	2.73
DM per unit Increase	Rs./ KWH	-	-	0.28	0.34	(0.33)	0.22	0.25	0.25	0.25
DM per unit % Increase	%age	-	· _	21.92%	19.55%	-15.67%	12.39%	12.47%	11.02%	10.19%

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DF - FORM 18 MEPCO

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**Financial Charges** 

## Power Distribution Busines

		FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
		Actual	Actual	Projected	Projected	Projected	Projected	Projected
А	Long Term Loans							
	GOP loans							
	Foreign Loans	1,336.86	1,431.24	1,380.75	1,236.20	1,091.38	946.26	831.05
	Markup Transferred from GoP TFCs	968.85	775.72	621.09	497.28	398.15	318.78	255.23
	Interest During Construction							
	Others							
	Total	2,305.72	2,206.95	2,001.84	1,733.48	1,489.53	1,265.04	1,086.28
в	Short Term Loan							
	Running Finance							
	Short Term Loan							
•	Others	4,45	4.91	1.08	1.19	1.31	1.45	1.59
	Total	4.45	4.91	1.08	1.19	1.31	1.45	1.59
С	Total Financial Charges (A+B)	2,310.17	2,211.86	2,002.92	1,734.67	1,490.84	1,266.49	1,087.87

## · DF - FORM 19

## MEPCO

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### **RORB** Calculation

Less: Deferred Credits

Regulatory Assets Base

Rate of Return

Return on Rate Base

J Average Regulatory Assets Base (RAB)

	the second s	ar.	FY 2018-19	Y 2018-19	FY 2019-20	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
			Determined	Actual	Determined	Actual	Projected	Projected	Projected	Projected	Projected
A	Gross Fixed Assets In Operation - Opening Bal	[Min Rs]	130,473	130,473	144,295	144,295	154,065	173,518	194,506	217,799	241,737
В	Addition in Fixed Assets	[Min Rs]	13,822	13,822	13,868	9,770	19,453	20,988	23,293	23,938	24,402
С	Gross Fixed Assets in Operation - Closing Bal	[MIn Rs]	144,295	144,295	158,163	154,065	173,518	194,506	217,799	241.737	266,139
D	Less: Accumulated Depreciation	[Min Rs]	46,305	46,305	51,459	51,433	57,128	63,516	70,672	78,616	87.365
ε	Net Fixed Assets in Operation	[Min Rs]	97,990	97,990	106,704	102,632	116,390	130,990	147,128	163,121	178,774
F	Add : Capital Work In Progress - Net of D.Work	[MIn Rs]	10,899	10,899	11,032	15,040	13,694	16,383	18,460	18,783	19,117
G	Investment in Fixed Assets	[Min Rs]	108,889	108,890	117,736	117,672	130,084	147,373	165,587	181,905	197,891

69,990

47,746

44,020

15.02

6,610

59,724

57,948

54,821

15.02

8,232

65,245

64,839

61,393

11.72

7,196

70,500

76,873

70,856

11.72

8,305

76,125

89,463

83,168

11.72

9,748

81,448

100,457

94,960

11.72

11,130

Power Distribution Business

 $\langle \rangle$ 

86,675

111,217

105,837

11.72

12,404

no

[MIn Rs]

[Min Rs]

[MIn Rs]

[%age]

[Min Rs]

68,595

40,294

37,656

10.95

4,122

57,195

51,695

49,751

10.95

5,446

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### **Revenue Requirement**

	n in the state of the		FY 2018-19 Determined	FY 2018-19 Actual	FY 2019-20 Determined	FY 2019-20 Actual	FY 2020-21 Projected	FY 2021-22 Projected	FY 2022-23 Projected	FY 2023-24 Projected	FY 2024-25 Projected
A	Power Purchase Price	[Min Rs]	253,741	225,795	253,741	248,780			- -	· _	_
в	DM						•				
	O&M	[Min Rs]	16,818	22,815	18,637	26,191	21,922	25,767	29,220	32,865	36,935
	Depreciation	[Min Rs]	4,699	4,710	5,154	5,131	5,695	6,388	7,155	7,945	8,749
	RORB	[Min Rs]	4,122	5,446	6,610	8,232	7,196	8,305	9,748	11,130	12,404
	Other Income	[Min Rs]	(4,400)	(4,400)	(4,234)	(5,246)	(5,248)	(5,438)	(5,877)	(6,310)	(6,743)
	Impact of Disallowed Losses	[Min Rs]									
	Late Payment Surcharge	[Min Rs]		(2,171)		(1,848)			` -	-	-
	Supplemental Charges	[Min Rs]		2,171		1,848		1990 - Alexandria Alexandria	· -	-	-
	Bad Debts	[Min Rs]					`	-		-	-
	Working Capital	[Min Rs]					-		· -	-	-
	Total DM	[Min Rs]	21,239	28,572	26,167	34,308	29,564	35,021	40,246	45,629	51,345
	Sales Mix	[Min Rs]									
	Prior Period Adjustment	[MIn Rs]	(2,767)		1,248	-	58,338		-	-	
	Total - B	[Min Rs]	18,472	28.572	27,415	34,308	87,903	35,021	40,246	45,629	51,345
С	Revenue Requirement (A+B)	[Min Rs]	272,213	254,366	281,156	283,088	87,903	35,021	40,246	45,629	51,345
D	Less/ (Excess) Recovery	[Min Rs]	-	-	-	-	-	· _ *	-	· _	-
	Bad Debts Written Off	[Min Rs]	-	6,955		584	-	-	-	· ·	-
	Total - D	[MIn Rs]	-	6,955	-	584	-		-	-	-
Ε	Total Revenue Requirement (C+D)	[MIn Rs]	272,213	261,322	281,156	283,672	87,903	35,021	40,246	45,629	51,345
							·····				· · · · · · · · · · · · · · · · · · ·

### DF - FORM 20(A) Revenue Requirement (Per Unit Sold)

			FY 2018-19 Determined	FY 2018-19 Actual	FY 2019-20 Determined	FY 2019-20 Actual	FY 2020-21 Projected	FY 2021-22 Projected	FY 2022-23 Projected	FY 2023-24 Projected	FY 2024-25 Projected
A	Power Purchase Price	[Rs./ KWh]	15.40	13,84	15.24	15.19		•		-	
в	DM		-	-	-	-	-	-	-	-	-
	O&M	[Rs./ KWh]	1.02	1.40	1.12	1.60	1.31	1.46	1.62	1.79	1.96
	Depreciation	[Rs./ KWh]	0.29	0.29	Ū.31	0.31	0.34	0.36	0.40	0.43	0.47
	RORB	[Rs./ KWh]	0.25	0.33	0.40	0.50	0.43	0.47	0.54	0.60	0.66
	Other Income	[Rs./ KWh]	(0.27)	(0.27)	(0.25)	(0.32)	(0.31)	(0.31)	(0.33)	(0.34)	(0.36)
	Impact of Disallowed Losses	[Rs./ KWh]	-	-	-	-	-	-	-	-	-
	Late Payment Surcharge	[Rs./ KWh]		(0.13)	-	(0.11)	-	-	-	-	-
	Supplemental Charges	[Rs./ KWh]	-	0.13	-	0.11	-	-	-		-
	Bad Debts	[Rs./ KWh]	-	-	-	-	-	-	-	-	-
	Working Capital	[Rs./ KWh]	-	-	-	-	-	-	-	-	-
	Total DM	[Rs./ KWh]	1.29	1.75	1.57	2.09	1.77	1.98	2.23	2.48	2.73
	Sales Mix	[Rs./ KWh]	-	-	-	-	-	-	-	-	-
	Prior Period Adjustment	[Rs./ KWh]	(0.17)	-	0.07	-	3.48	-	-	-	-
	Total - B	[Rs./ KWh]	1.12	1.75	1.65	2.09	5.25	1.98	2.23	2.48	2.73
С	Revenue Requirement (A+B)	[Rs./ KWh]	16.52	15.60	16.88	17.28	5.25	1.98	2.23	2.48	2.73
D	Less/ (Excess) Recovery	[Rs./ KWh]	-	-	-	-	-	-	-	-	-
	Bad Debts Written Off	[Rs./ KWh]	-	0.43	-	0.04	-	-	-	-	
	Total - D	[Rs./ KWh]	-	0.43		0.04		· · · · ·			-
E.	Total Revenue Requirement (C+D)	[KS./ KWh]	/16.52	16.02	<u> </u>	17.32	5.25	<b>⊷</b> ∕ <u>1.98</u>	2.23	2.48	2.73

DF	- FORM 21	(A)
ME	EPCO	

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## Power Distribution Business

lnν	restment		e e e e e e e e e e e e e e e e e e e			and the second second	. An inclusion of the second second	 		and the second	
	알 옷 수 200 년간 11 명령은 12 년간 1 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	가려가 사망하다 가려가 있다. 사망가 가려가 있는 것은 것 사망가 가려가 있는 것은 것	FY 2019 Determined	FY 2019 Actual	FY 2020 Determined	FY 2020 Actual	FY 2021 Projected	FY 2022 Projected	FY 2023 Projected	FY 2024 Projected	FY 2025 Projected
											al Altaria
Α	Investment Plan									14 	
	DOP	(Min Rs]		853	-	1,378	910	2,404	2,564	2,029	2,190
	ELR	[Min Rs]		1,871	-	2,192	2,130	3,647	3,853	4,684	4,938
	STG (energy efficiency, capaicitors)	(Min Rs)		3,403	. •	2,291	3,600	4,372	4,106	4,453	4,529
	Village Electricification/Deposit Work	[Min Rs]		2,517	<b>.</b>	2,403	3,228	3,452	3,769	2,760	2,828
	Capital Receipts	[MIn Rs]		4,172	•	4,994	6,000	5,598	5,979	6,335	6,718
	Vehicles (Utility & Others)	[MIn Rs]		3	<del>.</del>	38	480	702	844	413	441
	ERP	[MIn Rs]		11		21	80	35	10	45	. 50
	AMR Meters	[Min Es]		1997 <u>-</u> 19	1		500	628	699	540	. : · · ·
	Others	[Min Rs]		608		535	1,211	2,841	3,538	2,978	3,006
	Hospital Equipments	(Min Rs)		-	-	36	-	35	50	65	80
				· _ ·				1 - <b>-</b> 11			
				-	-			-	- · · ·		-
									<u> </u>		
	Total	[Min Rs]	13,439	13,439	14,000	13,887	18,140	23,714	25,412	24,305	24,780
B	Financing Arrangement							and the second			
	Local Loan	[MIn Rs]		1 - F		- 1	· ·	3,478	2,599		-
	Foreign Relent Loan	[Min Rs]		607		-	- 1997 - 1997 - 1997	-	-	-	- /
	PSDP / Own Resources	[Min Rs]		6,143		6,490	8,912	11,186	13,065	15,207	15,234
	Grants	(Min Rs)		-		-	•	-		-	
	Consumer Contribution	[Min Rs]		4,172		4,994	6,000	5,598	5,979	6,338	6,718
	Loan Basis (AMI/ AMR Meters)	[Min Rs]		-		-		· · · -	-	, t	-
	Lease Basis (Vehicles)	(Min Rs)		-		-	- '	-		•	
	Deposit Works/ Others	[Min Rs]	· · · · · · · · · · · · · · · · · · ·	2,517		2,403	3,228	3,452	3,769	2,760	2,828
	Total	[Min Rs]	13,439	13,439	14,000	13,887	18,140	23,714	25,412	24,305	24,780
			-	-	-	-	· -	0	· _	· · · ·	-

### Supported by the following details:

1. Complete Cost Benefit Analysis

2. Expected efficency/ improvement in the system

DF -	FORM	22
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a a second	MEPCO
Interest on	<b>Development Loans</b>

Rs. Million

( )

				1			Rs. Million
Sr No	Sr No. Loops Interest FY 2019-20 (Actual)						AND THE CONTRACTOR CONTRACTOR CONTRACTOR OF A DECISION OF
51. NO.	LUans	Rate %	1st Qrt	2nd Qrt	3rd Qrt	4rth Qrt	Total
1	World Bank	17	44.082	44.082	39.674	39.674	167.511
2	ADB (Tr-l)	17	15.878	15.878	14.114	14.114	59.983
3	ADB (Tr-II)	15	30.973	30.973	29.626	29.626	121.198
4	ADB (Tr-III)	15	59.265	59.265	57.663	57.663	233.857
5	ADB (Tr-IV)	15	55.421	55.421	54.000	54.000	218.840
6	CDL	12.64	24.787	24.787	24.787	24.787	99.146
		K / WF / Shirt					
	L	<u> </u>	230.405	230.405	219.863	219.863	900.53

This form should be submitted for each loan appearing on the DISCO's Balance Sheet

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				2			Rs. Million
Sr No	Loans	Interest	ning and a subsection of the sector of the s				
51. NO.	LUalis	Rate %	1st Qrt	2nd Qrt	3rd Qrt	4rth Qrt	Total
1	World Bank	17	35.265	35.265	30.857	30.857	132.245
2	ADB (Tr-I)	17	12.349	12.349	10.585	10.585	45.869
3	ADB (Tr-II)	15	28.279	28.279	26.933	26.933	110.424
4	ADB (Tr-III)	15	56.062	56.062	54.460	54.460	221.043
5	ADB (Tr-IV)	15	52.579	52.579	51.158	51.158	207.472
6	CDL	12.64	24.332	24.332	24.332	24.332	97.329
		í					
				*			
			***************************************				
			N. C. SARA				
			208.867	208.867	198.325	198.325	814.38

## MEPCO Interest on Development Loans

This form should be submitted for each loan appearing on the DISCO's Balance Sheet

				3			Rs. Million	
		Interest	and the second products are related by the second second second second second second second second second secon	FY 2021-22 (Projected)				
Sr. NO.	Loans	Rate %	1st Qrt	2nd Qrt	3rd Qrt	4rth Qrt	Total	
1	World Bank	17	26.449	26.449	22.041	22.041	96.980	
2	ADB (Tr-l)	17	8.821	8.821	7.057	7.057	31.756	
3	ADB (Tr-II)	15	25.586	25.586	24.240	24.240	99.651	
4	ADB (Tr-III)	15	52.858	52.858	51.256	51.256	208.229	
5	ADB (Tr-IV)	15	49.736	49.736	48.315	48.315	196.104	
6	CDL	12.64	23.820	23.820	23.820	23.820	95.278	
			*					
			187.270	187.270	176.729	176.729	728.00	

## MEPCO Interest on Development Loans

This form should be submitted for each loan appearing on the DISCO's Balance Sheet



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				. 4			Rs. Million
Sr No	Sr No Loons Interest FY 2022-23 (Projected)						
51. NO.	LUAIIS	Rate %	1st Qrt	2nd Qrt	3rd Qrt	4rth Qrt	Total
1	World Bank	17	17.633	17.633	13.225	13.225	61.715
2	ADB (Tr-l)	17	5.293	5.293	3.528	3.528	17.642
3	ADB (Tr-II)	15	22.893	22.893	21.546	21.546	88.878
4	ADB (Tr-III)	15	49.655	49.655	48.053	48.053	195.415
5	ADB (Tr-IV)	15	46.894	46.894	45.473	45.473	184.735
6	CDL	12.64	23.240	23.240	23.240	23.240	92.961
				<b>R</b> 211001.00			
			165.607	165.607	155.066	155.066	641.35

## MEPCO Interest on Development Loans

This form should be submitted for each loan appearing on the DISCO's Balance Sheet

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·			•	5		-	Rs. Million
Cr. No.		Interest	anna annan an an annan ann ann ann ann	FY 2023-24	(Projected)		
5r. NO.	Loans	Rate %	1st Qrt	2nd Qrt	3rd Qrt	4rth Qrt	Total
1	World Barik	17	8.816	8.816	4.408	4.408	26.449
2	ADB (Tr-l)	17	1.764				1.764
3	ADB (Tr-II)	15	20.200	20.200	18.853	18.853	78.105
4	ADB (Tr-III)	15	46.451	46.451	44.849	44.849	182.601
5	ADB (Tr-IV)	15	44.052	44.052	42.631	42.631	173.367
. 6	CDL	12.64	22.586	22.586	22.586	22.586	90.343
					· .		
				· .			
			143.869	142.105	133.327	133.327	552.63

## MEPCO Interest on Development Loans

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This form should be submitted for each loan appearing on the DISCO's Balance Sheet



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				D			RS. Willion	
Sr No	1 cana	Interest	ni es 2000.000 €00.000 21 (	FY 2024-25 (Projected)				
51. NO.	LUans	Rate %	1st Qrt	2nd Qrt	3rd Qrt	4rth Qrt	Total	
1	World Bank	17					· -	
2	ADB (Tr-I)	17					0.000	
. 3	ADB (Tr-II)	15	17.506	17.506	16.160	16.160	67.332	
4	ADB (Tr-III)	15	43.248	43.248	41.646	41.646	169.787	
5	ADB (Tr-IV)	15	41.210	41.210	39.789	39.789	161.999	
6	CDL	12.64	21.847	21.847	21.847	21.847	87.386	
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	6. MARY 4001							
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	L	Į						
		<u>                                     </u>	123.811	123.811	119.441	119.441	486.50	

# MEPCO Interest on Development Loans

This form should be submitted for each loan appearing on the DISCO's Balance Sheet



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<b></b>	1	1	ri		First Ort of F	Y 2019-20	T	•	Second Qrt of	FY 2019-20			Third Qrt of I	FY 2019-20		T	Fourth Ort of	FY 2019-20	r(5, iii) (viidio)
Sr. N	o. Loan	Interest Rate %	Remaining Years	O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bał	O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal
	1 World B 2 ADB-Lo	17% 17%	4 5	3849.04 1354.87	0.00 0.00	160.30 64.15	3688,74 1290,71	3688.74 1290.71	0.00 0.00	0.00 0.00	3688.74 1290.71	3698.74 1290.71	0.00 0.00	160.30 64.15	3528.44 1226.56	3528.44 1226.56	0.00 0.00	0.00 0.00	3528.44 1226.56
	3 ADB-Lo 4 ADB-Lo	15% 15%	12 19	2168.84 3118.56	0.00 0.00	0.00 0.00	2168.84 3118.56	2168.84 3118.56	0.00	65.69 78.13	2103.15 3040.43	2103.15 3040.43	0.00 0.00	0.00 0.00	2103.15 3040.43	2103.15 3040.43	0.00 0.00	65.69 78.13	2037.46 2962.29
	5 ADB-Lic 6 CDL	15% 17%	· 20 18	2772.76 797.05	0.00 0.00	0.00 0.00	2772.76 797.05	2772.76 797.05	0 00 0.00	69.32 0.00	2703.45 797.05	2703.45 797 05	0.00 0.00	0.00 0.00	2703.45 797.05	2703.45 797 05	0.00 0.00	69.32 14.04	2634.13 783.01
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		]	l	14,061.124	-	224.450	13,336.674	13,836,674		213.144	13,623.530	13,623,530	-	224.450	13,399.080	13,399.080	-	227.179	13,171.901

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DF - FORM 23

Re In Million

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#### DF - FORM 23

#### MEPCO Development Loan

																					Rs. In Million
			1	Interest	Remaining		First Qrt o	f FY 2020-21			Second Qr	t of FY 2020-2	1		Third Ort	of FY 2020-21			Fourth Q	rt of FY 2020-21	
Sr. No.	Loan	Code	Currency	Rate %	Years	O/Bai	sburseme	Repayment	C/Bal	O/Bal	sburseme	Repayment	C/Bal	O/Bal	sburseme	Repayment	C/Bat	O/Bal	sburseme	Repayment	C/Bai
	World Bank 2 ADB-Loan# 2438 (Tranche-I) ADB-Loan# 2727 (Tranche-II) 3 ADB-Loan# 2972 (Tranche-III) 5 ADB-Loan# 3096 (Tranche-IV) 5 CDL			17% 17% 15% 15% 15% :7%	3 4 11 18 19 17	3528.44 1226.56 2037.46 2962.29 2634.13 783.01	0.00 0.00 0.00 0.00 0.00 0.00	160.30 64.15 0.00 0.00 0.00 0.00	3368.14 1162.41 2037.46 2662.29 2634.13 783.01	3368.14 1162.41 2037.46 2962.29 2634.13 783.01	0.00 00.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 65.69 78.13 69.32 0.00	3368.14 1162.41 1971.77 2884.16 2564.81 783.01	3368.1. 1162.4 1971.7 2884.11 2564.8 783.0	4 0.00 1 0.00 7 0.00 5 0.00 1 0.00 1 0.00 1 0.00 1 0.00	160.30 64.15 0.00 0.00 0.00 0.00	3207.85 1098.26 1971.77 2684.16 2564.81 783.01	3207.65 1098.26 1971.77 2884.16 2564.81 783.01	000 000 000 000 0.00 0.00 0.00	0,00 0,00 65,69 78,13 69,32 15,85	3207 85 1098.26 1906.08 2806.02 2455.49 767.16
						13,171,901		224 450	12 947 451	12 947 451		213 144	12 734 108	12 734 308		224 450	12 509 957	12 500 957		228.005	13 200 023

MEPCO	
Development Loan	

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Devalua	tion in Pak	Rupee per Ann	um		-				-				-				ş	Rs. In Millior
Sr No Loan	Interest	Remaining		First Qrt of F	Y 2021-22			Second Qrt of	FY 2021-22			Third Qrt of I	FY 2021-22	1		Fourth Qrt of F	Y 2021-22	
51. NO. COM	Rate %	Years	O/Bal	Disbursement	Repayment	C/Bal	· O/Bal	Disbursement	Repayment 1	C/Bal	O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal
1 World E	3 17%	2	3207.85	0.00	160.30	3047.55	3047.55	0.00	0.00	3047.55	3047.55	0.00	160.30	2887.25	2887.25	0.00	0.00	2887.2
2 ADB-LC	17%	3	1098.26	0.00	64.15	1034.10	1034.10	0.00	0.00	1034.10	1034,10	0.00	64.15	969.95	969.95	0.00	0.00	969,9
3 ADB-Lo	15%	10	1906.08	0.00	0.00	1906.08	1906.08	0.00	65.69	1840.39	1840.39	0.00	0.00	1840.39	1840.39	0.00	65.69	1774.7
4 ADB-Lo	15%	17	2805.02	0.00	0.00	2806.02	2806.02	0.00	78,13	2727.89	2727.89	0.00	0.00	2727.89	2727.89	0.00	78.13	2649.7
5 ADB-LO	15%	18	2495.49	-0.00	0.00	2495.49	2495,49	0.00	69.32	2426.17	2426.17	0.00	0.00	2426,17	2426.17	0,00	69.32	2356.8
6 CDL	17%	·16	767.16	0.00	0.00	767.16	767.16	0 CO	0.00	767.16	767.16	0.00	• 0.00	767.16	767.16	0.00	17.90	749.2
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DF - FORM 23

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										Developme	nt Loan			•		1.0					Do in Million
,	Devalu	ation in Pak Rupee per Annum	10%	•·····								CV 0000 00			bird Ort of EX	2022 22			Fourth Ort of F	Y 2022-23	rts. In Willion
Sr. No	Loar	n Code	urrend	Interest	Remainin		First Qrt of F	2022-23	0/8-1	0.0-1	econd Qrt of	FY 2022-23	C/Bal	O/Bal D	Isbursemen8	2022-23	C/Bal	O/Bai	Disbursement	epayment	C/Bal
	1		_	Rate %	g Years	0/Bai	Disoursement	epayment 160.20	0726.05	2726.05	isoursement	0.00	2726 05	2726.95	0.00	160.30	2566.66	2566.66	0.00	0.00	2566.66
	VVoria	Bank		17%		2867.23	0.00	64.16	2120.95	2720.93	0.00	0.00	905 80	905.80	0.00	64 15	841.65	841.65	0.00	0.00	841.65
2	ADD-L	oan# 2436 (Tranche-I)		1/ %	2	4774 70	0.00	04.15	1774 70	1774 70	0.00	65 69	1709.01	1709.01	0.00	0.00	1709.01	1709.01	0.00	65.69	1643.33
	ADB-L	can# 2022 (Tranche-II)		15%	16	2640.75	0.00	0.00	2649.75	2649 75	0.00	78 13	2571 62	2571.62	0.00	0.00	2571.62	2571,62	0.00	78.13	2493.49
	ADD-L	oan# 2006 (Tranche-III)		150/	17	2045.75	0.00	0.00	2356.85	2356 85	0.00	69.32	2287 53	2287.53	0.00	0.00	2287.53	2287.53	0.00	69.32	2218.21
6	ADD-L			170/	15	740.26	0.00	0.00	749.26	749.26	0.00	0.00	749 26	749 26	0.00	0.00	749.26	749,26	0.00	20.22	729.04
	002			17.70	15	745.20	0.00	0.00	/45.20	7-0.20	0.00	0.00							1. I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I		,
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	1		1	1	1	11,387.774		224.450	11,163.324	11,153,324		213.144	10,950,180	10,950.180	<u> </u>	224.450	10,125.130	10,725.730	L	233,304	10,732.300

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#### MEPCO Development Loan

	Devaluati	ion in Pak F	Rupee per Ani	num															Rs. In Million
10.11	1	Interest	Remaining	1	First Ort of F	Y 2023-24			Second Qrt of	FY 2023-24			Third Qrt of I	FY 2023-24	1		Fourth Qrt of FY	2023-24	
Sr, No	. Loan	Rate %	Years	O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal	C/Bal	Disbursement	Repayment	C/Bai	O/Bal	Disbursement   F	Repayment	C/Bal
1	World B	17%	0	2566.66	0.00	160.30	2406.36	2406,36	0.00		2406.36	2406.36	0.00	160.30	2246.06	2246.06	0.00	0.00	2246.06
1 2	ADB-1 o	17%	1	841.65	0 00	64.15	777.49	777.49	0.00		777.49	777.49	0.00	64.15	713.34	713.34	0.00	0.00	713.34
	ADB-Lo	15%	8	1643.33	0.00		1643.33	1643.33	0,00	65,69	1577.64	1577.64	0.00		1577.64	1577.64	0.00	65,69	1511.95
	ADB-Lo	15%	15	2493.49	0.00	)	2493.49	2493.49	0.00	78.13	2415.35	2415.35	0.00	с. — 1. А	2415.35	2415.35	0.00	78.13	2337.22
	ADB-LO	15%	16	2218.21	0.00	)	2218.21	2218.21	0.00	69.32	2148.89	2148.89	0.00		2148.89	2148.89	0.00	69.32	2079.57
· 6	CDI	17%	14	729.04	0.00	,	729.04	729.04	0.00		729.04	729.04	0.00	1	729.04	729.04	0.00	22.84	706.20
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#### DF - FORM 23

#### MEPCO Development Loan

	Devaluatio	n in Pak Rupee per Annum	10%																		Rs In Million
Sr. N	o Loan	Code	urren	Interest	Remainin		First Qrt of FY	2024-25		5	iecond Ort of	FY 2024-25			Third Ort of F	2024-25		ļ	ourth Qrt of F	Y 2024-25	
<b></b>				Rate %	g Years	O/Bal	DisbursementR	epaymen	C/Bal	O/Bal	lisbursemen	Repayment	C/Bal	O/Bal	lisbursemen	epayment	C/Bal	O/Bal [	isbursement	epayment	C/Bal
1	1 World Ba	nk		17%	0	2246.06	0.00	160.30	2085.76	2085.76	0.00		2085.76	2085.76	0.00	160.30	1925.47	1925.47	0.00		1925.47
	2 ADB-Loa	n# 2438 (Tranche-I)		17%	0	713.34	0.00	64.15	649.19	649.19	0.00	:	649.19	649.19	0.00	64.15	585.04	585.04	0.00		585.04
	3 ADB-Loa	n# 2727 (Tranche-II)	1	15%	7	1511.95	0.00		1511.95	1511.95	0.00	65.69	1446.26	1446.28	0.00		1446.26	1446.26	0.00	65.69	1380.57
	4 ADB-Loa	n# 2972 (Tranche-III)		15%	14	2337.22	0.00		2337.22	2337.22	0.00	78.13	2259.08	2259.08	0.00		2259.08	2259.08	0.00	78.13	2180.95
	5 ADB-Loa	n# 3096 (Tranche-IV)		15%	15	2079,57	0.00		2079.57	2079.57	0.00	69.32	2010.25	2010.25	0.00		2010.25	2010.25	0.00	69.32	1940.94
į (	SICDL			17%	13	706.20	0.00		706.20	706.20	0.00		706.20	706.20	0.00		706.20	706.20	0.00	25.795	680.41
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#### DF-FORM 24 Slab Wise Domestic Consumers Analysis (2020-21)

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Slabs	No. of Customers	0-50	1 - 100	101 - 200	201-300	301-400	401-500	501-600	601-700	701-800	801-900	901-1000	1001-1100	Above 1100	A1-B & Temporary	Total	Revenue Rs. Million	Average Rate Rs./ kwh
0 - 50	1,138,574	62,474,265			i											62,474,265	1,025	16.41
1 - 100	806,121		1,570,983,091													1,570,983,091	13,405	8.53
101 - 200	1,873,307			2.691,564,780												2,691,564,780	25.082	9.32
201 -300	1,457,238				2,230,293,841											2,230,293,841	25,692	11.52
301 - 400	648,331					1,257,551,041										1,257,551,041	20,669	16.44
401-500	250,749						645,323,179									645,323,179	11,677	18.09
501-600	118,899							361,642,286								361,642,286	6,916	19.12
601-700	62,553								226,015,253							226,015,253	4,473	19.79
701-800	34,046									142,150,837						142,150.837	3,392	23.87
801-900	20.357										96,156,252					96,156,252	2,322	24.15
901-1000	12,175	1										66.028.672				66.028.672	1,606	24.33
1001-1100	7,968												46,034,721			46,034,721	1,127	24.49
Above 1100	18,621													168,152,230		168,152,230	4,132	24 57
A1-B & Temporary	17,046														120.557,104	120.557,104	2,566	21 29
Total	6,475.985	62,474,265	1,570,983,091	2,691,564,780	2.230,293,841	1,257,551,041	645,323,179	361,642,286	226,015,253	142,150.837	96, 156, 252	66.028,672	46,034,721	168,152,230	120,557,104	9,684,927,552	124,085	12.81

Slab Wise Domestic Consumers Analysis (2021-22)

÷[	Slabs	No. of Customers	0-50	1 - 100	101 - 200	201-300	301-400	401-500	501-600	601-700	701-800	801-900	901-1000	1001-1100	Above 1100	A1-B & Temporary	Total	Revenue Rs. Million	Average Rate Rs./ kwh
	- 50	1,206,988	64,348,493														64,348,493	1,055	16.40
×.	- 100	854,488		1,649,532,246													1,649,532,246	15,907	9.64
· .	01 - 200	1,985,705			2,831,526,149												2,831,526,149	29,529	10.43
:	01 -300	1,544,672				2,352,960,002				-							2,352,960.002	29,717	12.63
:	01 - 400	687,231					1,326,716,349										1,326,716,349	23,279	17.55
4	01-500	276,394						680,815,954									680,815,954	13,075	19.20
5	01-600	126.033							381,532,612								381,532,612	7,719	20.23
6	01-700	66,306								238,446,092							238,446,092	4,984	20.90
-	01-800	36,099									149,258,379						149,258,379	3,728	24 98
8	01-900	21,578										100,964,064					100,964,064	2,550	25 26
ç	01-1000	12,905											69,330,106				69,330,106	1,764	25 44
	001-1100	8,446												48,335,457			48,336,457	1,237	25 60
	bove 1100	19,738													176,559,842		176,559,842	4,534	. 25 68
	1-B & Temporary	18.059														126,558,959	126,558,959	2,834	22 40
Ŀ	otal	6,864,544	64,348,493	1,649,532,246	2,831,526,149	2,352,960,002	1,326,716,349	680,815,954	381,532,612	238,446,092	149,258,379	100,964,064	69,330,106	48,336,457	176,559,842	126,558,959	10,196,885,704	141,912	13.92

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#### Slab Wise Domestic Consumers Analysis (2022-23)

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Slabs	Na. of Customers	0-50	1 - 100	101 - 200	201-300	301-400	401-500	501-600	601-700	701-800	801-900	901-1000	1001-1100	Above 1100	A1-B & Temporary	Total	Revenue Rs. Million	Average Rate Rs./ kwh
0 - 50	1,288,957	65,635,463														65,635,463	1.076	16 40
1 - 100	912,594		1,682,522,890													1,682,522,890	16,225	9.64
101 - 200	2,120,734			2,893,819,724												2,893,819,724	30,179	10.43
201 -300	1,649,710				2,411,784,002											2,411,784,002	30,460	12.63
301 - 400	733,963					1,359,884,258										1,359,884,258	23,861	17.55
401-500	295,189						697,836,353									697,836,353	13,402	19.20
501-600	134,603							391,070,927					÷			391,070,927	7.912	20.23
601-700	70,815								244 407,244			· ·				244,407,244	· 5,108	20.90
701-800	38,543	i								152.243.547					į	152.243,547	3,802	24.98
801-900	23,046										102,983,345					102,983,345	2,601	25.26
901-1000	13,783											70,716,708	·	·		70,716,703	1,799	25.44
1001-1100	9.020												49,303,186			49,303,186	1.262	25.60
Above 1100	21.080							•				•		180,091,039		180,091,039	4.625	25.68
A1-B & Temporary	19,297														130,340,127	130,340,127	2,919	22.40
Total	7,331,334	65,635,463	1,682,522,890	2,893,819,724	2,411,784,002	1,359,884,258	697,836,353	391,070,927	244,407,244	152,243,547	102,963,345	70,715,708	49,303,185	180,091,039	130,340,127	10,432,638,813	145,231	13.92

#### Slab Wise Domestic Consumers Analysis (2023-24)

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Slabs	No. of Customers	0-50	1 - 100	101 - 200	201-300 .	301-400	401-500	501-600	601-700	701-800	801-900	901-1000	1001-1100	Above 1100	A1-B & Temporary	Total	Revenue Rs. Million	Average Rate Rs./ kwh
0 - 50	1,366,294	66,948,172												~~~~		66,948,172	1,098	16.40
1 - 100	967,349		1.716,173,348													1,716,173,348	16,549	9.64
101 - 200	2,247,978			2,951,696,118												2,951,696,118	30,782	10,43
201 -300	1,748,693				2,460,019,682				et al co							2,460,019,682	31,069	12.63
301 - 400	778,000					1,393,881,365							·			1,393,881,365	24,457	17.55
401-500	312,900						715,282,262									715,282,262	13,737	19 20
501-500	142,679							400.847,700								400,847,700	8,110	20.23
601-700	75.064								250,517,425							250,517,425	5,236	20.90
701-800	40,655									155,288,418						155,288.418	3,878	24.98
801-900	24,429										105,043,012					105.043.012	2,653	25 26
901-1000	14,610			Ì			,					72,131,042				72.131,042	1,835	25.44
1001-1100	9,562												50,289,250			50,289,250	1,287	25.60
Above 1100	22.345			ĺ							1.1			183,692,660		183,692,890	4,717	25.68
A1-B & Temporary	20,455				ļ						1				134,247,731	134,247,731	.3.007	22.40
Total	7,771,214	66,948,172	1,716,173,348	2,951,696,118	2,460,019,682	1,393,881,365	715,282,262	400,847,700	250.517.425	155,288,418	105,043.012	72,131,042	50,289,250	183,692,860	134,247,731	10,655,058,336	148,416	13.93

#### Slab Wise Domestic Consumers Analysis (2024-25)

Slabs	No. of Customers	0-50	1 - 100	101 - 200	201-300	301-400	401-500	501-600	601-700	701-800	801-900	901-1000	1001-1100	Above 1100	A1-B & Temporary	Total	Revenue Rs. Million	Average Rate Rs./ kwh
0 - 50	1,448,272	68,287,136														68,287,136	1,120	16.40
1 - 100	1,025,390		1,753,929,162													1,753,929,162	16.913	9,64
101 - 200	2,382,856			3,013,681,737												3.013.681.737	31,429	10.43
201 -300	1,853,614				2,514,140,115	1						•				2,514,140,115	31,753	12,63
301 - 400	824,680					1,425,940,636										1,425,940,635	25,020	17.55
401-500	331,674						731,733,754									731,733,754	14,053	19.20
501-600	151,240						1	410,067,197								. 410,067,197	8,297	20.23
601-700	79,568					1			256.279,326							256.279.326	5,357	20.90
701-800	43,307					1				158,860,051						158,860,051	3,968	24.98
801-900	25,894										107,459,001					107,459,001	2,714	25.26
901-1000	15,487											73,790,056				73,790.056	1,877	25.44
1001-1100	10,135												51,445,903			51,445.903	1,317	25.60
Above 1100	23,686													187,917,795		187,917,795	4,826	25.68
A1-B & Temporary	21,683														137,601,260	137,601,260	3,062	22.40
Total	8.237,485	68,287,135	1,753,929,162	3,013,681,737	2.514.140.115	1,425,940,635	731,733,754	410.057.197	256,279,326	158,860,051	107,459,001	73,790.056	51,445,903	187,917,795	137,601,260	10,891,133.129	151,723	13.93

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Power Distribution Business DF - FORM 25

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## Provision for Tax

 Sr. No.
 Provision for Tax allowed
 Actual tax paid during the FY 2019-20

 1st Qrt
 2nd Qrt
 3rd Qrt
 4th Qrt
 Total

FORM - 25

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## Provision for Tax

Sr No	Provision for Tax allowed	Projected	tax paid d	uring the F	Y 2020-21	
51. NO.	Trovision for Tax allowed	1st Qrt	2nd Qrt	3rd Qrt	4th Qrt	Total
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## Provision for Tax

					Rs	. In Million
Sr No	n for Tax	Projected	tax paid d	uring the F	Y 2021-22	
		1st Qrt	2nd Qrt	3rd Qrt	4th Qrt	Total
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## Provision for Tax

	Rs.									
Sr No	n for Tax	Projected	tax paid d	uring the F	Y 2022-23					
		1st Qrt	2nd Qrt	3rd Qrt	4th Qrt	Total				
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## Provision for Tax

					Rs	. In Million	
Sr No	hn for Tax	Projected	tax paid d	uring the F	Y 2023-24		
51. NO.		1st Qrt	2nd Qrt	3rd Qrt	4th Qrt	Total	
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## Provision for Tax

				1999	Rs	. In Millio
Sr No	on for Tax	Projected	tax paid d	uring the F	Y 2024-25	
JI. NO.		1st Qrt	2nd Qrt	3rd Qrt	4th Qrt	Total
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	94434400000					
	44 Y 14 H 10 H					
	2 3440000400					
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## Existing & Proposed Tariff Statement

F.Y. 2020-21

			No. of	Connected	Load	Distribution	NEPRA Exi	sting Tariff	Propos	ed New Tariff	Diff	erence
Description	Sales	Sales Mix	Consumers	Load	Factor	losses	Fixed Charge	Variable	Fixed	Variable	Fixed	Variable
	(MkWh)	<u> 1886 1872 B</u>	<u> 1908 (1904)</u>	nwi		<u>1988</u> /00/05/1-	(Rs/kW/M)	(Rs/kWh)	Refeation	(Re/kW/b)	Charge	(Rs/kWh)
				()				(((a)(()))))	(Ita/(enil)	(1(3)(11))	(((3)(()))))	(raretti)
Residential		0.074										
Up to 50 Units	02.47	0.37%	537,314				·	249.88	·	313.29	<u>·</u>	63.4
01.100 Units	1 570 98	0.38%	3 672 561					24 969 61		21 191 60		6 2 1 2 0
101-200   Inits	2 691 56	16.08%	1 779 878				· · · · · ·	44 033 92		55 211 97		11 178 0
201-300 Units	2 230 29	13.32%	358 572					38 873 95		48 742 99		9.869.0
301-700Units	2,490.53	14 88%	100 981				··	49 611 36		62 205 97		12 594 6
Above 700 Units	518.52	3.10%	4,811				-	10.837.07		13,586,34	-	2.751.2
For peak load requirement exceeding 5 kW		0.00%			}		<u>-</u>		····		<u>.</u>	
Time of Use (TOU) - Peak	24.01	0.14%						500.57	<u>-</u>	627.64	<u>·</u>	127.0
Time of Use (TOU) - Off-Peak	96.03	0.57%	17,204				·	1,455.85		1,825.47		369.6
Temporary	0.52	0.00%	1,042		i		<del>.</del>	10.54		13.22		2.6
Total Residential	9,684.91	57.85%	6,465,363					170,442		213,710		43,26
Commercial - A2									<u> </u>	<u>`</u>	<u>·</u>	
Commercial - A-2A	179.20	2 969/	500 55C					0.274.24		14 639 43		2 254 4
For peak togo requirement up to 5 kVV	470.30	2.00%	560,555			······································	· · · · · · · · · · · · · · · · · · ·	9,274.24		11,628.43		2,354,1
		0.00%						····· ··· ···				<u>-</u> -
uommercial (<20 KW) For peak load requirement exceeding 5 kW		0.00%						-	_	_ :		.
Regular A-28	0.18	0.00%	27	1620			1	3.16	1	3.96		0.8
A-2C (TOU) - Peak (A-2)	97.80	0.58%	<del>.</del>	,				1,993.16	·	2,499,18		506 0
A-2C (TOU) - Off-Peak	320.75	1.92%	21.191	2048251			· 901	4,634.84	901	5,811.35		1,176.5
Temporary Commercial E-111 (56)	6.22	0.04%	1.950					125.83	-	157.78		31.9
Total Commercial	903.25	5.40%	609,724	2,049,871			902	16,031	902	20,101		4,06
		0.00%	-				· · · · · ·	- 	·	906.04	· · · ·	162.2
B1 (400 Volts Upto 40kw) (07)	33,49	0.20%	15,159				· · · · - <sup>*</sup>	- 643.01		000.24		103.2
31 (400 Volis Upto 40xW) (08)	68.72	0.00%	18				- ·	1 204 97	·	1 726 40		251 5
B1 (b) (Peak)	266.62	1 50%		2002603				3 802 80		4,880.93		088.1
	200.03	0.00%	1 679	0552000				0.66		4,000.33		0.1
B2 (100 Vol(s 41-500 kW) B2-A (10)	100.04	1 10%	1,070					4.011.93		5 030 46		1 018 5
B2 - D TOU (Peak)	967.80	5 78%	0.187	5546340			2 440	13 762 12	2 440	17 255 87		3 493 7
B2 - B TOU (Brah)	142.63	0.85%		0040040			2,440	2 936 75	2,440	3 682 28		745 5
B3 - TOU (Peak)	649.87	3.88%	372	2634438			1 190	8 526 29	1 190	10 691 01		2 164 7
B3- TOU (Dir-peak)	35.07	0.21%					1,150	723 72	1,150	907.45		183.7
R4 - TOU (Offunak)	199.07	1 19%	A	701268			281	2 790 96	281	3 499 45		708.4
Tamporaty E-2 (58)	3 20	0.02%		0				54 56		68 41		13.8
1211031212 (30)		0.0270								10.570		
Total Industrial	2,566.32	15.33%	60,565	13,074,743			3,911	38,728	3,911	48,559		9,83
Butk							un e tin	0.10	·	-	<del>.</del>	-
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00%	32	60						0.23		0.0
C1(B) Supply at 400 Volts - above 5 kW		0.00%	128	11/8			···· ··· ···	3.30		10.41		<u> </u>
C-1C Time of Use (100) - Peak	11.10	0.07%		105150				230,40		295.25	<u>-</u>	38.7
U-1C Time of Use (TOU) - Off Peak	32.65	0.20%	241	135152			59	420.86		527.69		100.8
22A Supply at 11 kV	0.92	0.01%		2614			1	14.72	1	1 469 00		3./
U-2B Time of Use (TOU) - Peak	51.42	0.31%		400001				2 005 90		1,108,93		230.0
U-2B Time of Use (TOU) - Off Peak	148.64	0.89%	57	488994			205	2,095.82	205	2,027.01	-	231.9
C3-A Supply above 11 kV	1.62	0.01%	1	23980			10	25.84	10	32.40		0.5
C3-B Time of Use (TOU) - Peak	5.65	0.03%					·	113.85		522.07		105.9
US-B time of Use (100) - Off-Peak	29.08	0.18%	2	0312']		h	33	417.00		522.8/		105.8
Total Single Point Supply	282.21	1.69%	471	735,104		<b>_</b>	309	4,264	309	5,347		1,08
Agricultural Tube-wells - Tariff D							•	•	·	·	·	
D-1A (41,42,43,44,45)	0.07	0.00%	2,757					1.28	· · · · · · · · · · · · · · · · · · ·	1.60		0.3
D-18 (45) Peak	9.81	0.06%	·					204.34		256.22	<sup>-</sup>	51.8
D-18 (45) Off-Peak	39.24	0.23%	\$51	107707			22	588.60	22	738.03		149.4
D-2A (47.48.49.52) (NOR)	0.02	0.00%	9,378	2239			0	0.28		0.35	<u>·</u>	<u></u>
D-2A (47,48,49,52) (SUE)	0.05	0.00%	3	2743					11	0.87		0.1
D-28 (50.51,53.54) Peak (NOR)	0.15	0.00%	· · · · ·		·			2.99		3.74		U./
D-28 (50,51,53,54) Off-Peak (NOR)	- 0.45	0.00%	3,287	516/4			10	0.5/		10 840 35	···	2 104 9
U-2B (50,51,53,54) Peak (SUB)	434.24	2.59%		45400000				0,040./U	2 0 2 7	10,040.35	-	2,194.0
D-28 (50.51,53,54) Off-Peak (SUB)	2,505.49	14.97%	84,163	15136233			3,027	31,017.95	3,027	30,892.70		1,814.1
	2 000 50	17 900	100 540	15 300 500			3.060	40.407	3 060	50 744		10 27
iotal Agricultural	2,989.52	17.66%	100,540	19,300,595			3,060	40,407	3,060	409.09		10,27 82 C
Public Lighting G	6.73	0.04%	1.683					121 54	· · ·	152 40	·	30 8
Special Contracts - Tariff K (A K)		0.04%						.2.(	· · · · · ·			
Time of Lise (TOLI) - Peak	 	0.00%	······				·					
Time ur Use (100) - Pedk		0.00%	, <b></b>			• •	· · · · ·					-
Time of the (TOT), Off Dear		0.0076							· ·			
Time of Use (TOU) - Off-Peak	289 14	1 7 7 %	41 433				-	5,126,45		6.427.87	- 1	1,301 4
Time of Use (TOU) - Off-Peak 4-3a (66)	289 14	1.73%	41,433				<u>-</u> .	5,126.45	:	6,427.87		1,301.4

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Power Distribution Business

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# Existing & Proposed Tariff Statement

F.1. 2020-21	First Web and Prove	T TREES & GAL	Conservation Service	The second s	Topo Canada Cario	Contraction Contraction	Risestat office as	ารา 5 เห็นสะครามไปประ	1777 20080-68	and the second second	12.28 2 Same	CALMARCE MARTING
		12232			1.00	Solution and the	NEPRA Ex	isting Tarifl	Propos	ed New Tarifi	Dill	erence
Description	Sales	Sales Mix	Consumers	Load	Factor	lossos	6288275		Carrie		気を使	
					N. S. A		Fixed Charge	Variable	Fixed	Variable	Fixed	Variable
	(MkWh)	%age	i i	(kVV)	1	1993.99 <b>2</b> -992-992-992-	(Rs/kW/M)	(Rs/kWh)	(Rs/kV//M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)
Residential			ĺ				1					
Up to 50 Units	62.47	0.37%	531,314	-				4.00	-	5.02	· ·	1.02
									····-			
For peak load requirement up to 5 kW										·•	·	
01-100 Units	1,570.98	9.38%	3,672,561		.]			15.83		19.85		4.02
101-200 Units	2,691.56	16.08%	1,779,878					16,36		20.51	<u> </u>	4.15
201-300 Units	2,230.29	13.32%	358,572	·				17.43	· · · · ·	21.86		4.43
301-700Units	2,490.53	14.88%	100,981	-				19.92		24.98		5.06
Above 700 Units	518.52	3.10%	4.811					20.90		26.21	-	5.31
For peak load requirement exceeding 5 kW	-	0.00%	-						-		-	-
Time of Use (TOU) - Peak	24.01	0.14%						20.65	-	26.14		5.29
Time of Use (TOU) - Off-Peak	96.03	0.57%	17 204					15.16		19.01		3.85
Temporany	0.52	0.00%	1.042					20.27		25.42	·	5 15
Temporary Tetal Basidandiat	0.52	E7 959/	E ACE 262					20.27		25.42		0.10
l otal Residential	9,664.91	57.85%	0,466,363				ļ			· · · · ·		
Commercial - A2									· · ·		<u>⊦</u>	
For peak load requirement up to 5 kW	478.30	2.86%	585,556	·				19,39	· · · · · · · · · · · · · · · · · · ·	24.31		4.92
Commercial (<100)		0.00%	·	-			440		440	-	-	-
Commercial (<20 KW)		1						F				
For peak load requirement exceeding 5 kW	· · · · · ·	0.00%		·					440			·····
Regular A-2B	0.18	0.00%	27	1,620			440	17.55	440	22.01	· .	4.46
					1			1				
A-2C (TOU) - Peak (A-2)	97.80	0.58%	·	-			440	20.38	440	25.55	-	5.17
A-2C (TOU) - Off-Peak	320.75	1.92%	21,191	2,048,251			440	14.45	440	18.12	-	3.67
Temporary Commercial E-111 (56)	6.22	0.04%	1,950	-			•	20.23		25.37	-	5.14
Total Commercial	903.25	5.40%	609,724	2,049,871					-	-		
Industrial	-	-	-									
B1 (400 Valts Upta 40kw) (07)	33.49	0.20%	15 159					19.20	·	24.07	<u> </u>	4 87
								10.20		24.07		
B1 (400 Volts Upto 40kw) (08)		0.00%	18					19.20		24.07		4.87
B1 (b) (Peak)	68.22	0.41%	·	· · · ·				20.30		25.45	-	5.15
81 (b) (Off-Peak)	266.63	1.59%	34,158	3,992,603				14.50		18.31		3.71
B2 (400 Volts 41-500 kw) B2-A (10)	0.04	0.00%	1,678	93			440	16.52	440	20.71	-	4.19
B2 - B TOU (Peak)	199.40	1.19%		-			440	20.12	440	25.23	-	5.11
B2 - B TOU (Off-peak)	967.80	5.78%	9,187	5,548,340			440	14.22	440	17.83		3.61
B3 - TOU (Peak)	142.63	0.85%	•				420	20.59	420	25.82		5 23
B3 - TOU (Off-neak)	649.87	3.88%	172	2 834 438			420	12.12	420	16.45		2.20
B4 TOU (Peak)	35.07	0.21%		2,004,400			420	13.12	420	16.45		3.33
B4 TOUL(Off seek)	100.07	1 108/		704.000			400		400	25.23		5.11
84 - 100 (07-peak)	199.07	1.19%	8	/01,266			400	14.02	400	17.58		3.56
emporary E-2 (58)	3.20	0.02%	85					17.05	· · ·	21.38	· ·	4.33
Total Industrial	2,566.32	15.33%	60,665	13,074,740						-		
Buik			÷	··							· ·	
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00%	32	66				18.73		23 49		4 76
C1(B) Supply at 400 Volts - above 5 kW	0.46	0.00%	128	1.178			440	18.05	440	22.63		4 58
C-1C Time of Use (TOU) - Peak	11.16	0.07%					440	21.10	440	26.46		5.26
C-1C Time of Lise (TOLI) - Off Peak	32.65	0.20%	241	125 152			440	42.80	440	20.40		
C2A Supply at 11 kV	0.02	0.01%		2,514			4110	12.00	-140	10.10	·	
	0.32	0.240	9	2,014			420		420	20.06		4.06
C-2B Time of Use (TOU) - Peak	51.42						420		420	22.73		4.60
G-25 Lime or Use (TOU) - Off Peak	148.64		57	488,994			420	14.10	420	17.68		3.58
CJ-A Supply above 11 kV	1.62	0.01%	1	23,980			400	15.95	400	20.00		4.05
C3-B Time of Use (TOU) - Peak	5.65	0.03%	·				400	20.15	400	25.27	<u>-</u>	5.12
C3-B Time of Use (TOU) - Off-Peak	29.68	0.18%	2	83,120			400	14.05	400	17.62		3.57
Total Single Point Supply	282.21	1.69%	471	735,104					-	-		
Agricultural Tube-wells - Tariff D			-						· ·	-	-	]
D-1A (41,42,43,44,46)	0.07	0.00%	2 757			-		18.28		22 02		4 64
D-1B (45) Peak	Q 81	0.06%		·			200	20.20	200	22.02		
D-18 (45) Off. Deak	20.04	0.00%		107 707			200	20.03	200	20 12		5.29
D 20 (47 48 49 52) (4000)		0.00%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	107,707			200	15.00	200	18.81		3.81
0-2A (47,46,45,52) (NOR)	0.02	0.00%	9,3/8	2.239		·	200	13.83	200	17.34	-	3.51
U-2A (47,48,49,52) (SUB)	0.05	0.00%	3	2,743			200	13.83	200	17.34		3.51
U-28 (50,51,53,54) Peak (NOR)	0.15	0.00%			• • • • • • • •		200	19,91	200	24.96		5.05
D-2B (50,51,53,54) Off-Peak (NOR)	0.45	0.00%	3,287	51,674			200	12.38	200	15.52		3.14
D-2B (50,51,53,54) Peak (SUB)	434.24	2 59%	· · · · ·		· · · · · · · · ·		200	19.91	200	24.96		5.05
D-28 (50,51,53,54) Off-Peak (SUB)	2,505.49	14.97%	84,163	15,136,233			200	12.38	200	15.52		3.14
			-								-	-
Total Agricultural	2,989.52	17.86%	100,540	15,300,596	]			]	- 1		]	]
Public Lighting G	18.50	0.11%	1,683	1				17.63		22.11	-	4.48
Residential Colonies H	6.73	0.04%	125					18.05		22.65	•	4.59
Special Contracts - Tariff K (AJK)		0.00%	-						. 1			
Time of Use (TOU) - Peak	-	0.00%							-			
Time of Use (TOU) - Off-Peak		0.00%								I	. 1	
A-3a (66)	289.14	1.73%	41.433					17 73	· · · · · · · · · · · · · · · · · · ·	22 22		4 50
	<u>_</u>											
Grand Total	16,740 58	100.00%	7 281 004	31 160 311								
La			1,201,004			l						

31,160,311 281.004 •

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# Existing & Proposed Tariff Statement F.Y. 2021-22

				Connected		Distributio	NEPRA E	xisting Tariff	Proposed	New Tariff	Diffe	erence
Description	Sales	Sales Mix	Consumers	Load	Factor	n losses	Fixed	Variable	Fixed	Variable	Fixed	- Variable
				<u>~******</u>	<u> </u>	<u> (2000) (2000)</u>	Charge	Charge	Charge	Charge	Charge	Se Charge
	(MkWh)			(KW)			(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(R\$/KVVh)
Residential								<b>.</b>				
Up to 50 Units	64.35	0.38%	563,193					322.72	···· <del></del>	297,10	· · · ·	(25.61)
For peak load requirement up to 5 kW			·					· · · · ·		-		
01-100 Units	1,649,53	9.85%	3,892,914			•		32,740.70		30,138.55		(2,502.13)
101-200 Units	2,831.53	16.91%	1,880,071					51 423 04		47 339 20		(4,015.39)
201-300 Units	2,302.90	15 70%	107.040					65 627 32		60 414 34		(5,212,98)
Above 700 Lloits	544.45	3 25%	5 100					14,267,86		13.134.31		(1,133,54)
Above roo crinis	014.40	0.23%					n m. 1					
For peak load requirement exceeding 5 kW		0.00%						·			· · ·	
Time of Use (TOU) - Peak	25.21	0.15%				· -		659.01	·•	606.66	· · · ·	(52.36)
Time of Use (TOU) - Off-Peak	100.83	0.60%	18,236					1,916.72	·•	1,764.46		(152.26)
Temporary	0.52	0.00%	1,104					13.22		12.17		(1.05)
Total Residential	10,197	60.91%	6,854,344					225,055		207,175	-	(17,880)
Commercial - A2			·•					· · · · ·		· ·	<u>-</u>	
Commercial - A-2A	542.04	2.000	674 760			· ·		12 472 40	_	11 481 25	_	(991 14)
For peak load requirement up to 5 kVV	513.01	3.06%	621,750				·	12,472.40		11,401.25		(331.14)
Commercial (<100)		0.00%								<u>_</u>		· · · ·
Commercial (<20 KW) For peak load requirement exceeding 5 kW		0.00%	-				-	-				-
Regular A-2B	0.19	0.00%	28	1636.2			1	4.27	1	3.93	0.02	(0.34)
A-2C (TOU) - Peak (A-2)	105.15	0.63%		0				2,687.09		2,473.63	-	(213.46)
A-2C (TOU) - Olf-Peak	344.87	2.06%	22,463	2068733.51			910	6,248.29	931	5,752.03	20.69	(496.26)
Temporary Commercial E-111 (56)	6.75	0.04%	2,067	0				171.22		157.62	<u> </u>	(13.60)
Total Commercial	970	5.79%	646,308	2,070,370			911	21,583	932	19,868	21	(1,715)
Industrial				0.00%			-		-	-	-	I
B1 (400 Volts Upto 40kw) (07)	35.50	0.21%	16.068	0				854 63		786.72	-	(67.91)
B1 (400 Volts Unto 40kw) (08)		0.00%	20	0			-	-		•	-	-
Bt (b) (Peak)	72.31	0.43%		0			-	1,840.58	-	1,694.37	-	(146.22)
B1 (b) (Off-Peak)	282.63	1.69%	36,207	4032529.03			-	_5,173.77		4,762.83		(410.94)
B2 (400 Volts 41-500 kw) B2-A (10)	0.04	0.00%	1,778	93.93			0	0.83	0	0.76	0	(0.07)
B2 - B TOU (Peak)	211.36	1.26%	· · ·	0				5,332.28		4,908.71	<u> </u>	(423.57)
B2 - B TOU (Off-peak)	1,025.87	6.13%	9,738	5601803.4			2,465	18,291.20	2,521	16,837.54	56	(1,453.65)
B3 - TOU (Peak)	151.19	0.90%	· · ·	0				3,903.22		3,593,13		(310.09)
B3 - TOU (Off-peak)	688.86	4.11%	394	2862782.38			1,202	11,332.47	1,231	10,432.13	29	(900.34)
B4 - TOU (Peak)		0.23%		0				974.98		897.53		(77.45)
B4 - TOU (Off-peak)	210.68	1.26%	9	708278.66		- ·	283	3,703.60	290	3,409.28		(294.32)
Temporary E-2 (58)	3.20	0.02%	90	0			<u>-</u>	68.41		62.98		(5.43)
Total Industrial	2,720	16.25%	64,304	13,205,487	<u> </u>		3,951	51,476	4,042	47,386	92	(4,090)
Bulk				0						· · · ·		
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00%	34	66.66				0.23		0.22	<u> </u>	(0.02)
C1(B) Supply at 400 Voits - above 5 kW	0,49	0.00%	136	1189.78				11.09	1	10.21	· 0	(0.88)
C-1C Time of Use (TOU) - Peak	11.72	0.07%	·	0				310.01		285.38		(24.03)
C-1C Time of Use (TOU) - Off Peak	34.28	0.20%	256	136503.52			60	554.07		17.01		(44.02)
C2A Supply at 11 kV	0.97	0.01%	10	2640.14				1 227 26		1 120 85	<u> </u>	(97.51)
C-2B Time of Use (TOU) - Peak	156.07	0.32%		403883.04			207	2 759 16	212	2 539 88	5	(219.28)
C-2B Time of Use (TOU) - Off Peak	156.07	0.93%	60	9493003.94 94910 P			10	34 00	10	31.30	0	(2.70)
C3-A Supply above 11 KV	5 02	0.01%		0.0				149.90		137.99	-	(11.91)
C3-p time of Use (TOU) - Feak	31 17	0.04%		83951 2			34	549.07	34	505.43	1	(43.63)
US-D Time of USe (100) - Uni-eak				740 455			240	5 644	220	E 169	7	14461
Total Single Point Supply	296	1.77%	499	(42,455		<u> </u>	312	5,614	320	5,100	<u> </u>	(440)
Agncultural Tube-wells - Tariff D		0.00%	2 022	0			1.	1 มา		1 69	†	(0.15)
D-1A (41.42,43.44,46)	10.08	0.00%	2,923			·   ·		269.02		247.64	<u> </u>	(21.37)
U-16 (45) Peak	41.00	0.00%	1 009	108784 07			22	774 89	23	713.34	1	(61.55)
0.20 (47 48 49 52) (NOE)		0.23%	9.940	2261 39			0	1.27	0	1.17	C	(0.10)
D-2A (47.48.49.52) (SUR)	0.63	0.00%	3,540	2770.43	 		1	10.99	1	10.12	0	(0.87)
0-2B (50 51 53 54) Peak (NOB)	0.11	0.00%		0			-	2.62		2.41	· ·	(0.21)
D-2B (50,51,53,54) Off-Peak (NOR)	0.32	0.00%	3,484	52190.74		1	10	4 89	11	4.50	1	(0.39)
D-2B (50,51,53,54) Peak (SUB)	454.86	2.72%	· · ·	0				11,355.10	-	10,453.11		(901.99)
D-2B (50,51,53,54) Off-Peak (SUB)	2,624.46	15.68%	89 213	15287595.33			3,058	40,739.51	3,210	37,503.55	153	(3,235.96)
	-		· ·					ļ	ļ		· ·	ļ
Total Agricultural	3,132	18.71%	106,571	15,453,602	ļ	·	3,091	53,160	3,245	48,938	155	(4,223)
Public Lighting G	19.24	0.11%	1,784					425.32	·	391.53	•	(33.79)
Residential Colonies H	7.07	0.04%	133		-[			160.10		147.38		(12.72)
Special Contracts - Tarill K (AJK)		0.00%					·	*			-	
Time of Use (TOU) - Peak		0.00%					·	·· · ·		·		1
Time of Use (TOU) - Off-Peak	202.6	0.00%			. ·	1	1	6 716 76		6 183 19		(533.57
A-3a (66)	302.14	1.80%	43,921		•••••••		· · · · · · · · · · · · · · · · · · ·	9,710,70			- 1	
• · · · · · · · · · · · · · · · · · · ·	1		L	1	1	- <del> </del>		+		+		1
	17 644	105 40%	7.717 86.1	31 471 914	Ì	·	8,265	364.191	8.539	335.257	274	(28,934

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## Existing & Proposed Tariff Statement

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F.Y. 2021-22	1 Second Second	r	Contraction Contraction	E	Dine Genteral	Distance in Keine	March Concerned	7.26 20000 400	in part data da		10 SAME TO	Additional of the state
		10.000			12.00		NEDRAE	vieling Tariff	Proposed	Now Tariff	in the second	erence cult
Description	Sales	Sales Mix	Or No. of	Connected	Load	Distributio		ភទេពក្មេ ដោយ	- Fichose			
			Consumers	LOAD	racion	in losses	Fixed	Variable	Fixed	Variable .	Fixed	Variable
	A DAMES	Plana R	LUNCE CHURCH	CDFSCHWARDSCHUTZ	<u>: 489200 587.0</u>	191900-0702000	(DelMAIAN)	(Rel/Ma)	(B>IMA/IAA)	(Durbhalle)	(DelvAllA)	(Rs/k\Mb)
· · · · · · · · · · · · · · · · · · ·	(MK(VII)	%age		(KVV)	·		(RS/KVV/M)	(RS/RVII)	(15/69/10))	(RSKM)	(Carkivini)	(((3)((4))))
			1									
Residential						a.aa.co. a.c			··			
Up to 50 Units	64.35	0.38%	563,193	<u>-</u>	j	· · · · ·		5.02	· ·	4.62		(0.40)
For peak load requirement up to 5 kW				-			-		-	-	- 1	-
01-100 Linite	1 649 53	9.85%	3 892 914			-		19.85	-	18.27	-	(1.58)
	2 821 52	16.01%	1 996 671			• • · · ·		20.51		18.88		(1.63)
101-200 Units	2,031.33	10.9176	1,000,071					20.51	· · · · · · · · · · · · · · · · · · ·	10,00		(1.00)
201-300 Units	2,352.96	14.06%	380,086		· · · · · · ·			21.86		20.12		_ (1.74)
301-700Units	2,627.51	15.70%	107,040					24.98		22.99		(1.98)
Above 700 Units	544.45	3.25%	5,100				·	26.21		24.12	•	(2.08)
For peak load requirement exceeding 5 kW		0.00%	-	-			· · ·		-	-		-
Time of Use (TOL)) - Peak	25 21	0 15%		-			-	26.14	-	24.07	-	(2.08)
Time of Use (TOU) Off Book	100.83	0.60%	18 236		i			19.01		17.50		(1.51)
Time of Ose (TOO) - On-Feak	0.00	0.00%	10,230					25.42		25.40		(2.02)
Temporary	0.52	0.00%	1,104		<u> </u>		·	25.42		23.40	-	(2.02)
Total Residential	10,196.89	60.91%	6,854,344	·	[		-		· · ·			-
Commercial - A2		-	· -					·	·	·	· · ·	-
For peak load requirement up to 5 kW	513.01	3.06%	621,750					24.31	-	22.38	-	(1.93)
											10.00	
Commercial (<100)		0.00%	i				440		450		10.00	·
Commercial (<20 KW)		0.000				1	240		400		10.00	
Por peak load requirement exceeding 5 kVV	· · · · ·	0.00%					440		450		10.00	
Regular A-2B	0.19	0.00%	28	1,636			440	22 01	450	20.26	10.00	(1.75)
	ł	i ·	1			1	·					
A-2C (TOU) - Peak (A-2)	105.15	0.63%	·				440	25.55	450	23.52	10.00	(2.03)
A-2C (TOU) - Off-Peak	344.87	2.06%	22,463	2,068,734			440		450	16.68	10.00	(1.44)
Temporary Commercial E-111 (56)	6.75	0.04%	2.067	-			-	25.37	-	23.35	-	(2.02)
Total Commercial	969 98	5 79%	646 308	2 070 370			-		2 250 00		2,250	
		0.10 /0	040,000	2,070,070					2,200.00			
Industrial				·			·			-		(1.04)
B1 (400 Volts Upto 40kw) (07)	35.50	0.21%	16,068		[		····	24.07		22.16	· · · · ·	(1.91)
B1 (400 Volts Upto 40kw) (08)	-	0.00%	20	-	1		-	24.07	-	22.16	-	(1.91)
Bt (b) (Peak)	72.31	0.43%		-				25.45		23 43	-	(2.02)
	202.62	1 60%	26.207	4 022 520				19.24		16.85		(1.45)
ВТ (b) (Оп-Реак)	202.03	1.09%	36,207	4,032,529				10.31		10.05	<u> </u>	(1.45)
B2 (400 Voits 41-500 kw) B2-A (10)		0.00%	1,778	94		·		20.71	450	19.07	10	(1.65)
B2 - B TOU (Peak)	211.36	1.26%					440	25.23	450	23.22	10	(2.00)
B2 - B TOU (Off-peak)	1.025.87	6.13%	9,738	5,601,803			440	17.83	450	16.41	10	(1.42)
B3 - TOU (Peak)	151,19	0,90%	-	-			420	25.82	430	23.77	10	(2.05)
B3 TOH (Off-peak)	688.86	4 11%	394	2 862 782		• . • • •	420	16.45	430	15.14	10	(1.31)
B3 TOO (On-peak)	000.00			2,002,702					430	10.14	40	(2.00)
B4 - TOU (Peak)	38.55	0.23%		·	l		400	25.23	410	23.22		(2.00)
B4 - TOU (Off-peak)	210.68	1.26%	9	708,279			. 400	17.58	410	16.18	10	(1.40)
Temporary E-2 (58)	3.20	0.02%	90	-				21.38	-	19.68	-	(1.70)
Total Industrial	2,720.29	16.25%	64,304	13,205,487				-	3,030	-	3,030	· -
Bulk				-			-	-	-	-	-	-
						········						
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00%	34	67				23.49		21.62	-	(1.87)
C1(B) Supply at 400 Volts - above 5 kW	0.49	0.00%	136	1,190			440	22.63	450	20.83	10	(1.80)
C-1C Time of Use (TOU) - Peak	11.72	0.07%	-	-			440	26.46	450	24.35	10	(2.10)
C-1C Time of Use (TOU) - Off Peak	34.28	0.20%	256	136 504			440	16 16	450	14.88	10	(1.28)
	0.97	0.01%	10	2 640			470	20.06	420	19.47	10	(1.50)
		0.0170		2,040			420	20.00	430	10,47	10	(1.09)
G-2B Time of Use (TOU) - Peak	23.99	0.32%		·•			420	22.13	430	20.93	10	(1.81)
C-2B Time of Use (TOU) - Off Peak	156.07	0.93%	60	493,884		·	420	17.68	430	16.27	10	(1.41)
C3-A Supply above 11 kV	1.70	0.01%	1	24,220			400	20.00	410	18.41	10	(1.59)
C3-B Time of Use (TOU) - Peak	5.93	0.04%		•			400	25.27	410	23.26	10	(2.01)
C3-B Time of Use (TOU) - Off-Peak	31.17	0.19%	2	83,951			400	17.62	410	16.22	10	(1.40)
Total Single Point Supply	296.33	1.77%	499	742 455					3.870		3.870	
Agricultural Tube-wells - Tariff D									5,5, 5			
Agricultural (use-weils - rafil) U							<b>.</b>					<u> </u>
D-1A (41,42,43,44,46)	0.08	0.00%	2,923	<u> </u>				22.92		21.10		(1.82)
D-1B (45) Peak	10.30	0.06%		-			200	26.12	210	24.04	10	(2.08)
D-1B (45) Off-Peak	41.20	0.25%	1.008	108 784			200	18.81	210	17.31	10	(1.49)
D-24 (47 48 49 52) (NOP)	0.07	n nn*/	0.040	2 761			200	17 24	210	15 06	10	(1 38)
	0.07	0.00%	3,340	2,201					210	45.00		(4:00)
U-2A (47,48,49,52) (SUB)	0.63	0.00%	3	2,110			200	17.34	210	12.90		(1.35)
D-2B (50.51,53.54) Peak (NOR)	0.11	0.00%	···				200	24.96	210	22.98	10	(1.98)
D-2B (50.51,53,54) Off-Peak (NOR)	0.32	0.00%	3,484	52,191			200	15.52	210	14.29	10	(1.23)
D-2B (50,51,53,54) Peak (SUB)	454.86	2.72%	· .				200	24.96	210	22.98	10	(1.98)
D-2B (50,51,53,54) Off-Peak (SUB)	. 2,624.46	15.68%	89,213	15,287,595			200	15.52	210	14.29	. 10	(1.23)
							· · · ·		-			
Total Agricultural	3,132.03	18 71%	106 571	15,453 602					1 680	_	1.680	-
Dublia Liphting C	10.04	0.1176	1 701							20.05		14 701
Public Lighting G	19.24	0.11%	1,/84					22.13		20.35	<u>⊢</u>	(1.75)
Residential Colonies H	7.07	0.04%	133	· · · ·				22.65		20.85	<u> </u>	(1.80)
Special Contracts - Tariff K (AJK)		0.00%	i	<u> </u>								<del>_</del>
Time of Use (TOU) - Peak		0.00%	<u> </u>				· · · ·				-	
Time of Use (TOU) - Off-Peak		0.00%		-			-			-	-	-
A-3a (66)	302.14	1.80%	43,921					22.23	-	20.47		(1.77)
									-	-	· ·	-
Grand Total	17 642 00	105 4094	7 7 47 964	31 471 014						·		
Granu (Otal	17,043.96	103.40%	1,111,004	31,471,314							i	
		•	-	· ·	1						1	

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## Existing & Proposed Tariff Statement

F.Y. 2022-23	14. 14 Martin	200	A CARLES	-	850383v	6.5		vieting Tariff	Proposed	New Tariff	in the second	erence
Description	Sales	Sales Mix	No. of	Connected	Load	Distribution	C. A		Fluid	MULTINE Y	ert. 2a	Mustikta
			Consumers	Load	Factor	losses	Charge	Charge	Charge	Charge	Charge	Charge
	(MkWh)	- <u>1997 - 1997 - 1997 -</u>	<u></u>	(kW)	iciencia.		(Rs/kW/i4)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)
												[
Residential							· ••	202.04	· · · · -	225 40		32.43
	53.04	0.36%	001,040							333.43		
01 100 Lipito	1 682 52	0.33%	4 158 021					30 741 32	· · · · · · · · · · · · · · · · · · ·	34 032 33		3 291 01
101-200   Inits	2 893 82	16 05%	2 015 153					54,644.00	-	60,486,63		5,842.62
201-300 Units	2,411.78	13.38%	405,970					48,522.60	•	53,710.34	-	5,187.74
301-700Units	2,693.20	14.94%	114,329		[		-	61,924.75		68,547.33	-	6,622.58
Above 700 Units	555.34	3.08%	5,447					13,397.02	· ·- ·	14,829.80		1,432.78
For peak load requirement exceeding		0.000										1
5 kW	75.00	0.00%	···							60169		66.93
Time of Use (TOU) - Peak	103.96	0.53%	10 478					1 817 38	· ·	2 011 69		194 31
Temporary	0.52	0.00%	1 179				-	12.17		13.47		1.30
Total Residential	10.433	57.87%	7.321.123	-			-	211,987		234,659	-	22,672
						1						
Commercial - A2		····					· · •		·			[
For peak load requirement up to 5 kW	523.27	2.90%	664,091			l	·	11,710.78	·	12,962.97		1,252.19
Commerciai (<100)		0.00%							. <u>.</u>		·	•
For peak load requirement exceeding												
5 kW		0.00%	·	·				:	·	-		
Regular A-28	0.19	0.00%	30	1,653			<u>├1</u>	3.85		4.26		0.41
A-2C (TOU) - Peak (A-2)	107.26	0.59%		-				2,523.10		2,792.96		269.86
A-2C (TOU) - Off-Peak	351.76	1.95%	23,993	2,089,421			940	10.100,C	940	179.00		17 00
Temporary Commercial E-111 (56)	6.89	0.04%	2,208	2 001 072			941	20 266		22 / 33		2 167
Total Commercial	989	5.49%	690,322	2,091,075			541	20,200		22,433		2,107
Industrial		·	<b>-</b>	-						-		
B1 (400 Volts Upto 40kw) (07)	36.21	0.20%	17,162					802.45	·	888.27		85.82
B1 (400 Volts Upto 40kw) (08)		0.00%	21	<u>·</u>						1 012 05	· · · ·	104.04
B1 (b) (Peak)	73.75	0.41%	20 672	4 072 854				4 957 97	· · · · · ·	5 377 44		519.47
B1 (b) (Off-Peak)	200.27	0.00%	1 800	4,072,854			0	4,337.37	0	0.84		0.08
B2 (400 Volts 41-500 KW) B2-A (	215 59	1 20%	1,099					5 006 91		5 542 22	- <u> </u>	535 31
B2 - B TOU (Peak) B2 - B TOU (Of-peak)	1.046.39	5.80%	10 401	5 657 821			2.546	17.174.37	2.546	19.010.78	-	1,836,41
B3 - TO! (Peak)	154.21	0.86%						3,664.99	-	4,056.84		391.85
B3 - TOU (Off-peak)	702.64	3.90%	421	2,891,410			1,243	10,640.76	1,243	11,778.33	-	1,137.57
B4 - TOU (Peak)	39.93	0.22%		-			-	927.23	-	1,026.36	-	99.13
B4 - TOU (Off-peak)	214.34	1,19%	10	715,361			293	3,468.52	_293	3,839.34		370.82
Temporary E-2 (58)	3.31	0.02%	96		L	L	·	\$5,14		72.11	<u> </u>	6.97
Total Industrial	2,775	15.39%	68,683	13,337,542			4,083	48.337	4,083	53,506	-	5,168
Bulk				-					-	-	-	· .
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00%	. 36	67				0.22		0.24	-	0.02
C1(B) Supply at 400 Volts - above 5 kV	0,50	0.00%	145	1,202			1	10,42	1	11.53	- <u>-</u> -	1.11
C-1C Time of Use (TOU) - Peak	11.95	0.07%		- <u> </u>			<del>.</del> .	291.08	:	322.21	<u> </u>	31.12
C-1C Time of Use (TOU) - Off Peak	34,97	0.19%	273	137,869			62	520.25	62	575.88		55.63
C2A Supply at 11 kV	0.99	0.01%	1!	2,667		··	1.	18.28	1	20.24		1.96
C-2B Time of Use (TOU) - Peak	55.07	0.31%	·•		ļ		·	1,152.44		1,275.69	i	123.25
C-2B Time of Use (TOU) - Off Peak	159,19	0.88%	64	498,823			214	2,590.66	214	2,867.65		276,99
C3-A Supply above 11 kV	1.74	0.01%	1	24,462			10	32.03		35.46	-	3.43
C3-B Time of Use (TOU) - Peak	6.05	0.03%	·	6	<u> </u>	<u> </u>	0	140.74 515.50	25	570.64	<u> </u>	55 10
U3-B Time of Use (TOU) - Off-Peak	31.79	0,18%	2	54,791			- 30	010.JZ		570.04	·	20.12
Total Single Point Supply	302	1.68%	532	749,836	<u> </u>		323	5,272	323	5,835	·	564
Agricultural Tube-wells - Tariff	D										····	<u> </u>
D-1A (41,42,43,44,46)		0.00%	3,122		· · · · · · · · · · · · · · · · · · ·			263.60	·	270.61		27.01
D-1B (45) Peak	10.51	0.06%	+ 077	100 979				727 60	22	805 30	<u> </u>	77 70
D-24 (47 48 49 52) (NOD)	42.02	0.23%	10.617	2 284			2.5	1.28	0	1.41		0.14
D-2A (47 48 49 52) (SUR)	0.00	0.00%	10,017	2 798	[ <u>-</u>		1	10.38	1	11.49		1.11
D-2B (50.51.53.54) Peak (NOR)	0.11	0.00%	<u>-</u>	-	1			2.53	· . · ·	2.80		0.27
D-2B (50.51,53,54) Off-Peak (NOR)	0.33	0.00%	3,721	52,713			11	4.72	11	5.22		0.50
D-2B (50,51,53.54) Peak (SUB)	463.96	2.57%		-				10,662.19		11,802.59		1,140.41
D-26 (50.51.53,54) Off-Peak (SUB)	2,676.93	14.85%	95,288	15.440,471			3,242	38,253.38	3.242	42,343.73	<u> </u>	4,090.35
		· ·			ļ	ļ					· ·	
Total Agricultural	3,195	17.72%	113,828	15,608,138	1		3,278	49,915	3,278	55,252	<u> </u>	5,338
Public Lighting G	19.63	0.11%	1.905	·			·	399.47		442.19	·	42.71
Residential Colonies H	7,11	0.04%	142				in the second	148.22		164.06		15.85
Special Contracts - Tariff K (AJK)		0.00%					. <b>.</b>		· · ·	·		
Time of Use (TOU) - Peak		0.00%							<u> </u>		· · · ·	+ <u>-</u>
(Ime of Use (100) - Off-Peak	308.20	1 71%	46 916	{	1			6,307.31		6,981.65	1	674.34
	000.20	1	<u>,,,,,,,</u>	·								
Grand Total	18.028	100.00%	8,243,451	31,786,639	1	1	8,624	342,631	8,624	379,273	-	36,641
L	·		··							(0)		0

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# Existing & Proposed Tariff Statement F.Y. 2022-23

		12.67.6923	50 8 S S		19.2.6		2852 Mars		22.000		Sec. 1	l (Constraints
Description	Sales	Sales Mix	No: of	Connected	Load	Distribution	NEPRAE	xisting Tarilf	Proposed	l New Tarilf	Diff	erence
a the second second	.77,87		Consumers	, Load	Factor	losses	Fixed	Variable	Fixed	Variable	Fixed	Variable
	(Miliana)	N	1 ( Gan 1 ( 1 - 1		1.	And Street	(Derivation)	(DellAMb)	(7-/L)N/M	(DertriAlb)	(D-INA(IA)	(Reikla/b)
	(MKWN)	%age		(kVV)		· · ·	(RS/KVVM)	(RS/KVVN)	(KS/KVV/M)	(RS/KVVII)	(RS/KVV/M)	(RS/KVVN)
Desidential												
Residential			204 542					4.62		E 11	·	0.40
Up to 50 Units	65.64	0.36%	601,546					4,62		5,11		0.49
For peak load requirement up to 5 kW	-	-	-	· -						-		-
01-100 Units	1,632.52	9.33%	4,158,021	•			-	18.27	•	20.23	-	1.96
101-200 Units	2,893.82	16.05%	2,015,153	-			-	18.88		20.90	-	2.02
201-300 Upits	2.411.78	13.38%	405.970	-			-	20.12	-	22.27	-	2.15
301 200 Inits	2 693 20	14 94%	114 329				-	22.99		25.45		2 46
Above 700 Lipits	555 34	3.08%	5 447					24.12		26.70		2.58
Property and the and the second of the second of the second secon		0.00%	0,117				· ····					
5 KW		0.0076						24.07		26.64		2.67
Time of Use (TOU) - Peak	20,90	0.14%						24.07	·	20.04		4.07
Time of Use (TOU) - Off-Peak	103.86	0.58%	19,478	-			· · · · · · ·	17,50	····-	19.37	·	1.67
Temporary	0.52	0.00%	1,179		···			23.40		25,90		2.50
Total Residential	10,432.64	57.87%	7,321,123			•	-	· · · ·		-		
Commercial - A2	···· ·						·		·		·	
For peak load requirement up to 5 kW	523.27	2.90%	664,091		L			22.38	-	24.77	-	2.39
Commorpial (c100)	_	0.00%		_			450		450	_	_	
Commercial (<100)		0.0070										
5 kW	-	0.00%		-	1		450	-	450	-	-	
Regular A-28	0.19	0.00%	30	1 653			450	20.26	450	22.42		2.17
		0.00%		1,000								
A-2C (TOLI) - Peak (4-2)	107 26	0.59%	-		· ·	ł	450	23 52	450	26 04		2.52
A-20 (TOLD - Off Pask	351 76	1 95%	22 002	2 080 421			450	16.69	450	18.46		1 78
Tamparani Camparaial E 111/60	6 90	0.049	23,333	2,003,421	<u> </u>			10.00 22.2F		25.95		2.50
Temporary Commercial E-111 (56)	0.09	6.408/	2,208	-			2 250	23.35	2 250 00	23.03		2.00
rotal Commercial	303.31	5.49%	690,322	2,091,073			2,250		2,200.00	·		
Industrial	······			· ·					·· · · · -	-		
B1 (400 Volts Upto 40kw) (07)	36.21	0.20%	17,162	· ·				22.16		24.53	-	2.37
B1 (400 Volts Upto 40kw) (08)	-	0.00%	21	-			-	22.16	-	24.53	-	2.37
B1 (b) (Peak)	73.76	0.41%	-	· -			-	23.43	-	25.94	-	2.51
B1 (b) (Off-Peak)	288.27	1.60%	38.673	4.072.854				16,85	-	18.65	-	1.80
82 (400 Volte 41-500 km) B2-0 (	0.04	0.00%	1 899	95			450	19.07	450	21.11		2 04
B2 (400 VOIIS 41-500 KW) B2-41	215 50	1 20%					450	22.22	450	25.71		2.01
B2 - B TOU (Peak)	1 046 20	5.00%		5 657 804			450	10 11	450	19.17		1 76
B2 - B TOU (Ott-peak)	(,046.39	5.80%	10,401	5,657,821			450	10.41	450	10.17		1.70
B3 - TOU (Peak)	154.21	0.86%					430	23.77	430	.26.31	<u>`</u>	2.54
B3 - TOU (Off-peak)	702.64	3.90%	421	2,891,410			430	15.14	430	16.76	:	1.62
B4 - TOU (Peak)	39.93	0.22%	·				410	23.22	410	25.71	<u> </u>	2.48
B4 - TOU (Off-peak)	214.34	1.19%	. 10	715,361			410	16.18	410	17.91	<u> </u>	1.73
Temporary E-2 (58)	3.31	0.02%	96					19.68		21.79	-	2.11
Total Industrial	2,774.69	15.39%	68,683	13,337,542			3,030		3,030			
Bulk	-	-	•	· -			-	~	-	-	-	-
								04.00		00.00		
C1(A) Supply at 400 Volts - up to 5 kV	0.01	0.00%	36	67	<u>.</u>		<u>-</u>	21.62		23.93	<u> </u>	2.31
C1(B) Supply at 400 Volts - above 5 kV	0.50	0.00%	145	1,202			450	20.83	450	23.06		2.23
C-1C Time of Use (TOU) - Peak	11.95	0.07%					450	24.35	450	26.96	· ·	2.60
C-1C Time of Use (TOU) - Off Peak	34.97	0.19%	273	137,869			450	14.88	450	16.47	-	1.59
C2A Supply at 11 kV	0.99	0.01%	.11	2,667		· ·	430	18.47	430	20.44		1.98
C-28 Time of Use (TOU) - Peak	55.07	0.31%	· -	· · · -			430	20.93	430	23.17	-	2.24
C-2B Time of Use (TOU) - Off Peak	159.19	0.88%	64	498,823	1		430	16.27	430	18.01	-	1.74
C3-A Supply above 11 kV	1.74	0.01%	1	24.462			410	18.41	410	20.38	-	1.97
C3-B Time of Use (TOU) - Peak	6 05	0.03%		Â		1	410	23.26	410	25.75	-	2.49
C3-B Time of Like (TO(1) - Off-Pent	31 70	0 18%		84 701			41n	16.22	410	17 95	-	1 73
Total Single Point Survey	302.26	1 690/	533	7/0 890			3 870		3 870			
And Single Point Supply	302.20	1.00%	532	143,000			3,070		3,010			
Agricultural Tube-wells - Faritt								· · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			<b>i-</b>
D-1A (41,42,43,44,46)		0.00%	3,122		l			21.10	· . •	23.36	·	2.26
D-1B (45) Peak	10.51	0.06%		<u> </u>			210	24.04	210	26.61		2.57
D-1B (45) Off-Peak	42.02	0.23%	1,077	109,872			210	17.31	210	19.17	-	1.85
D-2A (47,48,49,52) (NOR)	0.08	0.00%	10.617	2.284			210	15.96	210	17.67	-	1.71
D-2A (47,48,49,52) (SUB)	0.65	0.00%	٦	2 798			210	15.96	210	17.67	-	1.71
D-28 (50 51 53 54) Deat	0.11	0.00%				·	210	22 08	210	25.44		2 4F
D 28 (50 51 52 54) Of D-at (NOR)	0.33	0.00%	2 704	59 719			210	1/ 20	210	15.80	-	1 52
D-20 (50,51,53,34) OII-FEAK (NOR)	422.00	0.00%	3,121	. 32,113			210	22.00	. 210	75 44		2.65
D-28 (50,51,53,54) Peak (SUB)	403.90	2.3/%		HE 440 17			210	22.98	210	20.44		2.40
D-2B (50.51,53,54) Olf-Peak (SUB)	2,676.93	14.85%	95,288	15,440,471			. 210	14.29	210	15.82		1.53
				•							·	· · ·
Total Agricultural	3,194.59	17.72%	113,828	15,608,138	·		1,680	:	1,680			
Public Lighting G	19.63	0.11%	1,905		· · · ·		1 A -	20.35		22.53	<b>:</b>	2.18
Residential Colonies H	7.11	0.04%	142			·	1	20.85		23.08	·	2.23
Special Contracts - Tariff K (AJK)	-	0.00%									·	
Time of Use (TOU) - Peak		0.00%						· · · ·		-	-	
Time of Use (TOU) - Off-Peak		0.00%			[		-		•	-	-	
A-3a (66)	308.20	1.71%	46.916	· · -				20.47		22.65		2.19
										-	· ·	
Grand Total	18,028.49	100 00%	8,243 451	31,786,639			10.830					
			01270,401				,			h		

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## Existing & Proposed Tariff Statement

F.Y. 2023-24		and the second second	a taaniya a taaniya (	Phanestellormidaet	a sector test and	Part of the second	Receiverson	સ્ટ્રાઈ અને અને તે નિર્ણય	151-14-14-5-5555	Sector de la companya	Constanting	Sector Contract
			No. of	Connected	Load	Distributio	NEPRA E	xisting Tariff	Propose	d New Tariff	Diff	erence
Description	Sales	Sales Mix	Consumers	Load	Factor	n losses	Fixed	Variable	Fixed	Variable	Fixed	Variable
		<u> 1995 - 199</u>	No. Contraction	<u></u>	<u> 1998 - 199</u>	<u>1997, 199</u>	Charge	Charge	Charge	Charge	Charge	Charge
	(MkWh)			(kW)			(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)
Residential												
Up to 50 Units	66.95	0.36%	637,639				-	342.18	-	353,96	-	11.78
For peak load requirement up to 5 kW		-	-	1			-	-	-	-		· ·
01-100 Units	1.716.17	9.32%	4,407,502				-	34,712.97		35,907.42	-	1,194.45
101-200   fpits	2.951.70	16.03%	2.136.062				-	61,696.43	-	63,815.75	-	2,119.32
201-300 Upits	2,460.02	13.36%	430,328	-			-	54,784.65	-	56,666.56	-	1,881.92
301-700Linits	2 760 53	14.99%	121,189					70,261,01	-	72,673.71	-	2,412.70
Above 700 Linits	566.44	3.08%	5,774				-	15,126,21	-	15,645.64	-	519.43
For peak load requirement exceeding												
5 kW		0.00%						·	-			<u> </u>
Time of Use (TOU) - Peak	26.74	0,15%	-	l			-	712.41		736.88		24.47
Time of Use (TOU) - Off-Peak	106.97	0.58%	20,647					2.071.97		2,143.10	-	71.13
Temporary	0.53	0.00%	1,250				-	13.73	-	14.20	-	0.47
Total Residential	10,656	57.88%	7,760,391	-			-	239,722	-	247,957	-	8,236
Commercial - Az									· · · · · · · · · · · · · · · · · · ·			
kW	533,74	2.90%	703,936					13,222.34	-	13,676.55		454.21
Commercial (<100)		0.00%								-	-	-
Commercial (*100)		0.00 /2										
5 kW		0.00%	-					-	-			-
Regular A-2B	0.20	0.00%	32	1.669			1	4,48	1	4.64	0.02	0.15
A-2C (TO(1) - Peak (A-2)	109 44	0.59%					·	2.849.91		2,947.86		97.95
A.20 (TOUL Of Peak	359.74	1 05%	25 422	2,110,315			950	6 623 72	971	6.851.17	21.10	227.45
Tamaran Commercial E 111 (50)	7 01	0.049/	23,433	£,,10,073		<u> </u>		181 45		187 69	-	6.23
Temporary Commercial E-111 (56)	1.02	6 4997	771 744	2 111 094			950	27 882	972	23 669	21	786
i otal Commercial	1,009	5.48%	131,741	2,111,984			330	22,002	312	23,000	<u> ^</u>	100
Industrial			·	·			-	· · · · · · · · ·		· ·		
B1 (400 Volts Upto 40kw) (07)	36.93	0.20%	18,192					905.93	·	937.06	·	31.13
B1 (400 Volts Upto 40kw) (08)		0.00%	22	-		÷.				<u>-</u>	<u>-</u>	
B1 (b) (Peak)	75.23	0.41%						1,951,36		2,018.39	-	67.03
B1 (b) (Off-Peak)	294.05	1.60%	40,993	4,113,583			. •	5,485.12	. •	5,673.61	·	188.48
B2 (400 Volts 41-500 kw) B2-A (	0.04	0.00%	2,013	96			0	0.84	0	0.87	0	0.03
B2 - B TOU (Peak)	220.98	1.20%	-	-			-	5,680.73	-	5,875.86	-	195,13
B2 - B TOUL (Off-peak)	1.072.54	5.83%	11.025	5.714.400			2,571	19,485.91	2,629	20,155.17	57	669.26
B2 TOU (Bask)	157 30	0.85%						4 137 99		4 280 19		142.20
B3 TOU (Off each)	716 60	3.80%	446	2 920 324			1 256	12 013 94	1 285	12 426 75	29	412.82
B3-TOU (On-peak)	41.26	0.22%		2,02.0,024				1 060 55		1 096 98		36.43
84 - TOU (Peak)	41.20	0.2270		700 646		+	206	2,006,15	202	4.040.27	7	134.12
В4 - ТОО (Оп-реак)	210.07	1.10%	100	122,513			2.30	3,500.10		76 94		2.55
Temporary E-2 (58)	3.41	0.02%	102					14.25		70.04		2.00
Total Industrial	2,837	15.41%	72,804	13,470,918		<u> </u>	4,123	54,703	4,217	56,582	94	1,879
Bulk	<u> </u>		·					·	J	<u> </u>		<u> </u>
C1(A) Supply at 400 Volts - up to 5 kV	0.01	0.00%	38	68			•	0.24		0.25	-	0.01
C1(B) Supply at 400 Volts - above 5 k	0.51	0.00%	154	1,214			. 1	11.76	11	12.17	0	0.40
C-1C Time of Use (TOU) - Peak	12.19	0.07%					-	328.66	· .	339.95	-	11.29
C-1C Time of Use (TOU) - Off Peak	35.67	0.19%	289	139,247			63	587.42	64	607.61	1	20.19
C2A Supply at 11 kV	1.01	0.01%	12	2,693			1	20.65	1	21.36	0	0.71
C-2B Time of Use (TOU) - Peak	56.17	0.31%		-			-	1,301,23		1,345.95	-	44.71
C-2B Time of Use (TOLI)- Off Peak	162.38	0.88%	68	503.811			217	2,925.07	222	3,025.58	5	100.51
C3-A Supply above 11 kV	1 77	0.01%	. 1	24.707	1	Τ	10	36.07	10	37.31	0	1.24
C3-B Time of Use (TOH) - Peak	6 17	0.03%	[	-		1		158.92	-	164.39	-	5.46
C3-B Time of Lise (TOLI) - Off-Peak	37 43	0.18%	, ,	85.639		1.0	35	582.10	36	602.11	1	20.01
CONTRACTOR CONTRACT						1.				C 45-		205
Total Single Point Supply	308	1.67%	564	757,378			326	5,952	334	0,157	8	203
Agricultural Tube-wells - Tariff	D 1				<u> </u>	<u> </u>						·
D-1A (41.42,43,44,46)		0.00%	3,309				-		]			
D-1B (45) Peak	10.77	0.06%	` <b>-</b>			<u> </u>	-	286.58	•	296.42	<u>-</u>	9,84
D-1B (45) Off-Peak	43.07	0.23%	1.142	110,971			23	825.47	24	853.82	11	28.34
D-2A (47,48,49,52) (NOR)	0.08	0.00%	11,254	2,307			0	1.41	_ 1	1.46	0	0.05
D-2A (47,48,49,52) (SUB)	0.66	0.00%	3	2,826			1	11.66	<u>  1</u>	12.06	0	0.40
D-2B (50,51,53.54) Peak (NOR)	0,11	0.00%					·	2.86		2.96	<u> </u>	0.10
D-2B (50,51,53,54) Off-Peak (NOR)	0.34	0.00%	3,944	53,240			11	5.34	12	5.52	11	0.18
D-2B (50,51,53,54) Peak (SUB)	473.24	2.57%		-		:.		12,038.73	· · ·	12,452.34		413.61
D-2B (50,51,53,54) Off-Peak (SUB)	2,730.49	14.83%	101,005	15,594,876	-		3,275	43,190.91	3,431	44,673.56	156	1,482.66
			-						ļ		- <u>-</u>	<u>  : .</u>
Total Agricultural	3,259	17.70%	120,657	15,764,219			3,310	56,363	3,468	58,298	158	1,935
Public Lighting G	20.12	0.11%	2.019				-	453.22		468.80	<u> </u>	15.57
Residential Colonies H	7.32	0.04%	. 151				1	168.91	·	174.71	<u> </u> +	5.80
Special Contracts - Tariff K (AJK)		0.00%				L	1					
Time of Use (TOU) - Peak	-	0.00%						·	-		· · · ·	
Time of Use (TOU) - Off-Peak		0.00%	-					· · · · ·	· · ]	-	<u> </u>	<u> </u>
A-3a (66)	314.40	1.71%	49,731					7,122.10		7,366.71	<u> </u>	244.60
		-	-	· ·			1			-		I
Grand Total	18,411	100.00%	8,738,058	32,104,500			8,711	387,366	8,991	400,672	280	13,307
						1.1				. (0		(0)

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#### Existing & Proposed Tariff Statement

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				Connected	and a	Distributio	NEPRA E	xisting Tariff	Proposed	d New Tariff	Diffe	rence
Description	Sales	Sales Mix	Consumers	Connected	Factor	uniosses.					19 <b>.6</b> 1. [4] 8.	
			wy series (				Fixed.	Variable	Fixed	Variable	Fixed	Variable
	(MkWh)	%age	- 2011, 12:00 (111) C. Million 	(kWO			(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)
Peridential												
	66.95	0.36%	637 639				-	5.11		5.29		0.18
0010 50 01415		0.0070	007,0005	··········								
For peak load requirement up to 5 kW				•		ļ				•	·	
01-100 Units	1,716.17	9.32%	4,407,502	· ·			· · · · · ·	20.23	·	20.92		0.70
101-200 Units	2,951.70	16.03%	2,136,062					20.90	· · · ·	21.62		0.72
201-300 Units	2,460.02	13.36%	430,328	-				22.27		23.04		0.77
301-700Units	2,760.53	14.99%	121,189	-			-	25.45	-	26.33	-	0.87
Above 700 Linits	566,44	3.08%	5.774	-				26.70		27.62	-	0.92
5 LIN/		0.00%			``			-			_	-
	76 74	0.15%						26.64		27.56		0.91
Time of Use (TOU) - Peak	106.07	0.1370					-	10.37		20.04		89.0
Time of Use (TOU) - Off-Peak		0.50%	20,647				-	15.07		20.04		0.00
Temporary	0.53	0.00%	1,250				·	25.90		20.79	-	0.09
Total Residential	10,656.05	57.88%	7,760,391	_ · ·								
Commercial - A2							<b>.</b>	· · · ·	·			
For peak load requirement up to 5	533.74	2.90%	703,936				•	24.77		25.62		0.85
Commercial (<100)	_	0.00%					450	-	460	-	10.00	-
For pook load requirement exceeding												
5 kW	-	0.00%	-	-			450	-	460		10.00	<u> </u>
Begular A-2B	0.20	0.00%	32	1.669			450	22.42	460	23.19	10.00	0.77
				.,								
A-2C (TOU) - Peak (A-2)	109.44	0.59%	-	-			450	26.04	460	26.94	10.00	0.90
A.20 (TOU) - Off Bask	358 76	1 95%	75 473	2 110 315			450	18 46	- 460	19.10	10.00	0.63
7-20 (100) - 00-Feak	330.70	0.040	20,400	2,110,010				25.95	<u> </u>	26.74		0.80
Temporary Commercial E-111 (56)	1.02	0.04%	2,340	7 444 00.			2 2 2 2	23.00		20.74		0.05
Total Commercial	1,009.16	5.48%	731,741	2,111,984			2,250					· · · ·
Industrial	ī									· · ·	<u> </u>	
B1 (400 Volts Upto 40kw) (07)	36.93	C.20%	18,192					24.53		25.37	·	0.84
B1 (400 Voits Unto 40kw) (08)	-	0.00%	22					24.53		25.37		0.84
	75.23	0.41%					_	25.94		26.83		0.89
BT (D) (Peak)	75.25	1.00%		4 112 592				19.65		19.30		0.64
B1 (b) (Off-Peak)	294.05	1.00%	40,993	4,113,363			450	01.14	460	19.30	10	0.04
B2 (400 Volts 41-500 kw) B2-A (	0.04	0.00%	2,013	96			450	21.11	460	21.63	10	0.73
B2 - B TOU (Peak)	220.98	1.20%					450	25./1	460	26.59	10	0.88
B2 - B TOU (Off-peak)	1,072.54	5.83%	11,025	5,714,400			450	18.17	460	18.79	10	0.62
B3 - TOU (Peak)	157.30	0.85%					430	26.31	440	27.21	10	0.90
B3 - TOU (Off-peak)	716.69	3.89%	446	2,920,324			130	16.76	440	17.34	10	0.58
B4 - TOU (Peak)	41.26	0.22%	-	-			410	25.71	420	26.59	10	0.88
B4 - TOU (Off-peak)	218,07	1,18%	11	722,515			410	17.91	420	18.53	10	0.62
Temporary E-2 (58)	3.41	0.02%	102	-				21.79		22.53	-	0,75
Total Industrial	2 836 50	15 41%	72 804	13 470 918			3 030	-		-		
		10.4170	12,004	10,470,510								
Bulk		·	····-						· · · · · · ·	<u>-</u>		
C1(A) Supply at 400 Volts - up to 5 kV	0.01	0.00%	38	68				23.93		.24.75		0.82
C1(B) Supply at 400 Volts - above 5 k	0.51	0.00%	154	1,214			450	23.06	460	23.85	10	0.79
C-1C Time of Use (TOU) - Peak	12.19	0.07%	-	-			450	26.96	460	27.88	10	0.93
C-1C Time of Use (TOU) - Off Peak	35.67	0.19%	289	139,247			450	16.47	460	17.04	10	0.57
C2A Supply at 11 kV	1 01	0.01%	12	2 693			430	20.44	440	21.15	10	· 0.70
C 28 Time of Line (TOLD) Book	56 17	0.210		2,000		<u> </u>	. 430	23 17	440	23.96	10	0.80
0-25 Time of Use (TOU) - Peak	160.00	0.01%		502.044			400	10.11	440	19 67	10	0.60
U-2B Time of Use (TOU) - Off Peak	102.38	0.68%	68	503,811			430	10.01		0.03	10	0.70
C3-A Supply above 11 kV	1.77	0.01%	1	24,707	<u>├</u>		410	20.38	420	21.08		
C3-B Time of Use (TOU) - Peak	6.17	0.03%	<u>.</u>	<del>.</del>	·		410	25.75	420	26.63	10	0.85
C3-B Time of Use (TOU) - Olf-Peak	32.43	0.18%	2	85,639		<b></b>	410	17.95	420	18.57	10	0.62
Total Single Point Supply	308.31	1.67%	564	757,378	1 .	-	3,870			-		
Agricultural Tube-wells - Tariff		·		· .			·	· · · · · ·		-		-
		0.000	1 700					22.24		24.16		0.80
U-14 (41,42,43,44,46)	40	0.00%	3,309					23.30	220	24.10 07 ET		0.00
D-18 (45) Peak	10.77	0.06%				<b> </b>	210	26.61		21.53	10	0.91
D-1B (45) Off-Peak	43.07	0.23%	1,142	110,971			210	19.17	220	19.82	10	0.00
D-2A (47,48,49,52) (NOR)	0.08	0.00%	11,254	2,307	ļ		210	17.67	220	18.28	10	0.61
D-2A (47,48,49,52) (SUB)	0.66	0.00%	3	2,826	ļ		210	17.67	220	18.28	10	0.61
D-2B (50,51,53,54) Peak (NOR)	0.11	0.00%	-			<b></b>	210	25.44	220	26.31	10	0.87
D-2B (50,51,53,54) Off-Peak (NOR)	0.34	0.00%	3,944	53,240	L		210	15.82	. 220	16.36	10	0.54
D-2B (50,51,53,54) Peak (SUB)	473.24	2.57%	-	-		L	210	25.44	220	26.31	10	0.87
D-28 (50.51.53.54) Off-Peak (SUB)	2,730.49	14.83%	101,005	15,594,876			210	15.82	220	16.36	10	0.54
(000)		1						-				
Total Agricultural	3 258 76	17 70%	120 657	15 764 210	· · ·	1	1 680		1	-		
Dublic Lieblin, C	3,230.70	0.440	120,007	10,104,213		1	1	77.67		22.20	-	0.77
Public Lighting G	20.12	0.11%	2,019	·				22.00		23.30	·{	0.70
Residential Colonies H	1.32	0.04%	151	<u>-</u>				23.00	1 .	43.07	· [	
Special Contracts - Tarilf K (AJK)	· · · · · ·	0.00%	<u>-</u>	<u>-</u>			· ·	·	· · ·		·	
Time of Use (TOU) - Peak	· •.	0.00%	·					·	· · ·	<b>·</b>		·
Time of Use (TOU) - Off-Peak		0.00%	·	·								
A-3a (66)	314.40	1.71%	49,731			<u> </u>	· ·	22.65		23.43	.  <b>i</b>	0.78
			·	1	-	1.	<u> </u>	ľ		·	<u> </u>	
Grand Total	18,410.62	100.00%	8,738,058	32,104,500		·	10,830		<u> </u>			
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#### Existing & Proposed Tariff Statement

F.Y. 2024.25	References and an office	N.S. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	han she the Lord	1.2.2.5.1.5.	And the second second	A STATE STATES	Second 2.5		0.020090.03	0.992.016	20022	Weighten eine
			No. of	Connected	Load	Distribution	NEFRA E	cisting Tariff	Proposed	New Tariff	Diffe	steuce
Description	Sales	Sales Mix	Consumers	Load	Factor	losses	Fixed	Variable	Fixed	Variable	Fixed	Variable
Carl Carl Street				Daltas (S. ).	240223	<u> a trans a s</u>	Charge ,	Charge	Charge	Charge	Charge	Charge
<u> </u>	(MkWh)			(kW)			(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)
Residential			·									
Up to 50 Units	68.29	0.36%	675,897					361.05	-	387.14		26.09
For peak load requirement up to 5 kW		-	-				-		·		·	
01-100 Units	1,753.93	9.33%	4,671,952					36,697,48	-	39,344.16		2,646.68
101-200 Units	3,013.68	16.03%	2,264,226				· ·	65,155 76	· · · · ·	69,860.12		4,704.35
201-300 Units	2,514.14	13.37%	456,148				-	57,913,21	-	62,096.74		4,183.53
301-700Units	2,824.02	15.02%	128,460			1		74,345.15	-	79,713.61	-	5,368.46
Above 700 Units	579.47	3.08%	6,120	······			-	16,005.54	-	17,161.58	-	1,156.04
For peak load requirement exceeding 5						-						
kW		0.00%	<u>-</u>				·		<b>i</b>		· · ·	
Time of Use (TOU) - Peak	27.41	0.15%					·	755.34		809.69	·	54.55
Time of Use (TOU) - Off-Peak	109.65	0.58%	21,886					2,196.80		2,355.46		158.66
Temporary	0.54	0.00%	1.325			ļ		14.47		15.51	-	1.04
Total Residential	10,891	57.93%	8,226,014	·•	· · · · · · · · · · · · · · · · · · ·		·	253,445		271,744		18,299
Commercial - A2		-	· .				-	· ~			-	-
Commercial - A-2A	· · · · · · · · · · · · · · · ·											
For peak load requirement up to 5 kW	544.41	2.90%	746.172			·- ·-···		13,949.96	····	14,957.66	·	1,007.70
Commercial (<100)		0.00%					<u>.</u> .			-	<u> </u>	
For peak load requirement exceeding 5									i.			л.,
kW		0.00%	•	`	ļ				- <u></u>			·
Regular A-2B	0.20	0.00%	34	1,686		·····	1	4.64	1	4.97	·	0.33
A-2C (TOU) - Peak (A-2)	111.63	0.59%		<u> </u>				3,006.86	<u>-</u>	3,223.98		217.13
A-2C (TOU) - Off-Peak	365.94	1.95%	26,959	2,131,418			980	6,988.28	980	7,492.91	-	504.63
Temporary Commercial E-111 (56)	7.16	0.04%	2,480	·		ļ		191.43		205.26	·	13.83
Total Commercial	1,029	5.47%	775,645	2,133,104			981	24,141	981	25,885	-	1,744
Industrial	-		· -	· .			- I	· ·	_	-	-	-
B1 (400 Vicite Linto 40km) (07)	37.67	0.20%	19 284	-				955.84		1.024.89	-	69.05
B1 (400 Volta Linta 40km) (08)		0.00%	23	-				_	-			
B1 (400 Void Dpib 40k(1) (00)	76.74	0.41%					1	2 058 73	· · · · ·	2 207 45	-	148.72
	20 000	1.60%	43.453	4 154 719				5 786 99		6,205,08	-	418.09
B1 (b) (01-Peak)	205.02	0.00%	2 134	97			· .	0.87	0	0.94	-	0.06
B2 (400 Voits 41-500 KW) B2-A (1	225.40	1.20%	2,134					5 993 42		6 426 19		432.77
BZ - B TOU (Peak)	1 094 00	5 82%	11 687	5 771 544			2 655	20 558 42	2 655	22 042 98	-	1.484.56
B2-B100 (On-peak)	180.44	0.05%	11,001	5,111,544	· .		2,000	4 365 79	2,000	4 681 06	·	315 27
B3-100 (Peak)	701.00	2 909/		2 040 528			1 208	12 675 29	1 298	13 590 54		915 25
B3 - 100 (Off-peak)	131.03	0.00%	413	2,545,520			1,2.50	1 133 61	1,230	1 215 47		81.86
B4 - TOU (Peak)	42.63	0.23%		700 740	<u></u>		206	4 109 12	206	1,213.47		206.68
B4 - TOU (Off-peak)			12	129,140		·	300	4,100.12	300	97 40	· · · · ·	5.90
Temporary E-2 (58)	3.02	0.02%	108	·	· · ·			01.37	·	07.40		0.00
Total Industrial	2,893	15.39%	77,174	13,605,627			4,259	57,719	4,259	61,887		4,168
Bulk						·	· · -'		· · · · · · · · · · · · · · · · · · ·	·		·
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00%	40	. 59		hand in	1	0.25		0.27		0.02
C1(B) Supply at 400 Volts - above 5 kW	0.52	0.00%	163	1,225			1	12.40	1	13.30	<u> </u>	0.90
C-1C Time of Use (TOU) - Peak	12.44	0.07%						346.77		371.82		25.05
C-1C Time of Use (TOU) - Off Peak	36.38	0.19%	306	140,640			65	519.80	65	664.55	-	44.75
C2A Supply at 11 kV	1.03	0.01%	13	2,720			1	21.78	1	23.35		1.57
C-2B Time of Use (TOU) - Peak	57.30	0.30%		-	<u> </u>			1,372.86		1,472.04	<u> </u>	99.18
C-2B Time of Use (TOU) - Off Peak	165.62	0,88%	. 72	508,849			224	3,086.08	224	3,309.01		222.93
C3-A Supply above 11 kV	1.81	0.01%	1	24,954			10	38.15	10	40.91		2.75
C3-B Time of Use (TOU) - Peak	6.30	0.03%	-	<u> </u>				167.66		179.77	-	12.11
C3-B Time of Use (TOU) - Off-Peak	33.07	0.18%	2	86,495			36	614,12	36	658.47		44.35
Tatal Single Baist Sumulu	244	1 679/	507	764 952		1	337	6 780	337	6.733		454
Agricultural Tubo wells - Tariff P	<u>. 314</u>	1.01%	531									1 .
Agricultural Fube-wells - Fariπ U	· · · · · · · · · · · · · · · · · · ·	0.00%	3 609	<u> </u>			<u>-</u>				-	-
U-1A (41,42,43,44,40)	10.00	0.00%	3,505	<b>-</b>				302.37	1	324 20		21 84
D 10 (45) Peak	10.98	0.00%		112 000		de este interesta de la composición de	75	870 04	25	933.86		62.92
U-18 (45) UTI-Peak	43.94	0.23%	1,211	112,000		= .= <sup>1</sup> -	23	1.10		1 57	1	0.11
U-2A (47,48,49,52) (NOR)	0.08	0.00%	11.949	2,330				10 /0		12 22		n 90
U-2A (47,48,49,52) (SUB)	0.68	0.00%		2,004		· · · · · · · · · · · · · · · · · · ·	{·	2 110	· · · · · · · · ·	3.00		0.30
U-28 (50,51,53,54) Peak (NOR)	0.12	0.00%		E7 770		·   · · · · · ·	1 17	0.00	10	5.24 E.05		0.22
10-28 (50,51,53,54) Off-Peak (NOR)	0.35	0.00%	4,181	53,172			1	12 701 27		13 618 50	1	917 14
U-26 (50,51,53,54) Peak (SUB)	482.70	4.51%	107.005	15 750 905	· · · · ·	+·	3 165	45 566 07	3 465	48 858 05	1	3 291 98
D-2B (50,51,53,54) Off-Peak (SUB)	2,785.10	14.81%	107,065	15,/50,825		·	3,405	43,300,97	3,405	40,000.95		3,291.90
				10000	····	<u> </u>	1	ED 40.1	2 500	62 700		4 200
Total Agricultural	3,324	17.68%	127,897	15.921,862			3,503	59,464	3,503	63,760	+	4,290
Public Lighting G	20.52	0.11%	2.140			·		4/8.12		512.65		10 89
Residential Colonies H	-: 7:47	0.04%	160	·			· · · · · · · · · · · · · · · · · · ·	178.29		191.17	+	12.00
Special Contracts - Tariff K (AJK)		0.00%					•					1
Time of Use (TOU) - Peak		0.00%	· · · · · · · · · · · · · · · · · · ·		·[	<b>.</b>		···	· · · · · ·	·		-
Time of Use (TOU) - Off-Peak		0.00%		·			··· ···	7 540 00		9 050 10		EAD 87
A-3a (66)	320.67	1.71%	52,714					-1,513.62	·	0,000.19		542.57
	ļ										1	
Grand Total	18,801	100.00%	9,262.341	32,425,545	I		9,080	409,219	9,080	438,769		29,550
											<b>۱</b>	

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## Existing & Proposed Tariff Statement

F.Y. 2024.25

	168.52	1		Set Leader	A. 1.9 20.00	Partie Service	1	William State			1005.0652.0	
Description	Sales	Solor Mix	No. of	Connected	Coad	Distribution	NEPRA E	xisting Tariff	Proposed	I New Tariff	Diff	erence
and a second second		3.	Consumers	Load	Factor	losses	Eined 22	Mastable	rend a	1		1
	<u>i</u>	<u> 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997</u>	1.18 S. 18	10 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	the providence of the	5. <b>6</b> 745		wattable	Chrene	Variable	Fixed	Change
	(MkWh)	%age		(kW)			(Rs/kW/M)	(Rs/k'Mh)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh).
			· ·	· · ·		1			••		1	
Residential							· · · · · · · · · · · · · · · · · · ·					
Up to 50 Units	68.29	0.36%	675,897				·	5.29		5.67	· ·	0.38
For peak load requirement up to 5 kW	-		l _				-	· ·	I	-		-
01-100 Units	1 753 93	9.33%	4 671 952					20.92		22.43	<u> </u>	1.51
101-200   loits	3 013 68	16.03%	2 264 226					21.62		22.40	<u> </u>	1.51
201 200 Units	2 514 14	12 27%	456 140				م مشتر مذار	21.02	·	23.10	·	1.50
201-300 Dills	2,514.14	15.029/	430,140					23,04	··· ··	24.70	·	1.00
301-70001815	2,024.02	15.02%	120,400	<u>_</u>			- 1	20.33	· · · · · · · · · · · ·	28.23		1.90
Above /UU Units	5/9.4/	3.08%	6,120					27.62	· · · · · ·	29.62		2.00
kW		0.00%							j			
Time of Use (TOU) - Peak	27.41	0.15%	<u>-</u>		<u> </u>	· · · · ·		27.56		29.55		1.99
Time of Use (TOU) - Off-Peak	109.65	0.58%	21,886	•			<u> </u>	20.04	· · ·	21.48		1.45
Temporary	0.54	0.00%	1,325	-			-	26.79		28,72		1.94
Total Residential	10,891.13	57.93%	8,226,014	-	•			-	-	-		
Commercial - A2	-						-	-	-			-
For peak load requirement up to 5 kW	544.41	2.90%	746.172	-				25.62		27.48	· ·	1.85
				•								
Commercial (<100)		0.00%		-	······		460		460			<u>-</u>
For peak load requirement exceeding 5		0.00%					400					
		0.00%					400		460			
Regular A-2B	C.20	0.00%	34	1,686			460	23.19	460	24.87		1.68
	441.95					· · .	·				<b> </b> .	
A-2C (TOU) - Peak (A-2)	- 111.63	0.59%					460	26.94	460	28.88	<u>⊢ ·</u>	1.95
A-2C (TOU) - Off-Peak	365.94	1.95%	26,959	2,131,418			460	19.10	460	20.48	ļ	1.38
Temporary Commercial E-111 (56)	7.16	0.04%	2,480	-				26.74		28.67	· · · · · · · · · · · · · · · · · · ·	1.93
Total Commercial	1,029.34	5.47%	775,645	2,133,104			<u>.</u>					ļ
Industrial				-					-			-
B1 (400 Volts Upto 40kw) (07)	37.67	0.20%	19,284	· -				25.37		27.21		1.83
		0.00%						05.27		27.24		4.02
BT (400 Volts Opto 40xw) (06)	70.74	0.00%	23	<u>-</u>				25.37		21.21		1.03
B1 (b) (Peak)	/6./4	0.41%			·			26.83		28.77		1.94
B1 (b) (Olf-Peak)	299.92	1.60%	43,453	4,154,719	·····			19.30		20.69		1.39
B2 (400 Volts 41-500 kw) B2-A (1	0.04	0.00%	2,134	97	••.		460	21.83	460	23.41		1.58
B2 - B TOU (Peak)	225.40	1.20%			· · · · · · · · ·		460	26,59	460	28.51		1.92
B2 - B TOU (Off-peak)	1,094.00	5.82%	11,687	5,771,544			460	18.79	460	20.15	-	1.36
B3 - TOU (Peak)	160.44	0.85%		-			440	27.21	· 440	· 29.18	-	1.97
B3 - TOU (Off-peak)	731.03	3.89%	473	2.949.528			440	17.34	440	18.59		1.25
Bá - TOLI (Peak)	42.63	0 23%					420	26.59	420	28.51		1 92
B4 TOU (Off nearly)	221 74	1 189/		720 740		·· ,	420	19.63	420	10.87		134
B4 - 100 (OII-Deak)	261.74	1.1076	12	129,140			420	10.55	420	19.07		1.54
i emporary E-2 (58)	3.62	0.02%	108					22.55		24.16		1.63
Total Industrial	2,893.23	15.39%	77,174	13,605,627					-		·	
Bulk							·····				-	·
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00%	40	69			-	24,75		26,54		1,79
C1(B) Supply at 400 Volts - above 5 kW	0.52	0.00%	163	1 226			450	23.85	460	25.58		1.72
C-1C Time of Lise (TOU) - Peak	12 44	0.07%				· · · · · · · · · · · · · · · · · · ·	460	27.88	460	29.90		2.01
C 1C Time of Use (TOU) Off Peril	36.38	0.10%	205	140.640	·	•••••	460	17.04	460	19.00		1.23
	1.02	0.1376		140,040			400	17.04	400	10.27		1.23
	1.03	0.01%		2,720			440	21.15	440	22.67		1.53
C-28 Time of Use (TOU) - Peak	57.30	0.30%					440	23.96	440	25.69		1.73
C-2B Time of Use (TOU) - Off Peak	165.62	0.88%	72	508,849		·	440	18.63	440	19.98		1.35
C3-A Supply above 11 kV	1.81	0.01%	1	24,954			420	21.08	420	22.60	·	1.52
C3-B Time of Use (TOU) - Peak	6.30	0.03%			· · · ·		420	26.63	420	28.55		1.92
C3-B Time of Use (TOU) - Off-Peak	33.07	0.18%	2	86,495			420	18:57	420	19.91		-1.34
Total Single Point Supply	314.48	1.67%	597	764,952	1.1	8 a		-				·
Agricultural Tube-wells - Tariff D											· · · ·	I
		0.000										
U-1A (41,42,43,44,46)		0.00%	3,508		<u> </u>			24.16		25.90		1.75
D-1B (45) Peak	10.98	0.06%	· · · · · · ·				220	27.53	220	29.52		1.99
D-1B (45) Off-Peak	43.94	0.23%	1,211	112,080			220	19.82	220_	21.26	······	1.43
D-2A (47,48,49,52) (NOR)	0.08	0.00%	11,929	2,330			220	18.28	220	19.60		1.32
D-2A (47,48,49,52) (SUB)	0.68	0.00%	3	2,854			220	18.28	220	19.60		1.32
D-2B (50,51,53,54) Peak (NOR)	0.12	0.00%			·		220	26.31	220	28.21		1.90
D-2B (50,51,53,54) Off-Peak (NOR)	0.35	0.00%	4,181	53,772			220	16.36	220	17.54		1,18
D-28 (50,51,53,54) Peak (SUB)	482.70	2.57%	-				220	26,31	220	28.21	-	1.90
D-28 (50,51,53,54) Off-Peak (SUB)	2,785.10	14.81%	107.065	15,750.825			220	16.36	220	17.54		1.18
Total Agricultural	3 272 04	17 6 90/	127 207	15 021 002								
Dublic Lighting C	3,323.34	0.440/	121,091	13,321,002								
Fubic Ligning G	20.52	- 0.11%	2,140	·						24.98	l	1.68
residential Colonies H	1.4/	0.04%	160			<u> </u>		23.87	·	25.59	·	1.72
Special Contracts - Tariff K (AJK)	나는 정말 다	0.00%							· · · · · · · · · · · · · · · · · · ·			
Time of Use (TOU) - Peak		0.00%	· · · · ·	· <u>·</u> ····					·	·		
Time of Use (TOU) - Off-Peak		0.00%		· · · ·			i u 🖃	la de ta				
A-3a (66)	320.67	1.71%	52,714				h i satur l	23.43		25.12		1.69
L i i i i i i i i i i i i i i i i i i i										· <u>-</u>		
Grand Total	18,800.78	100.00%	9,262,341	32,425,545	1					÷		



#### DF - FORM 27 MEPCO

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IDTR

Subsidy

GOP Notified Tariff

This sheet comprises average rates as 02 different tariffs were applicable for 1st & 2nd half of FY 2019-20

NEPRA Determined Tariff

Load Factor

#### Actual Revenue & Subsidy Statement

F.Y. 2019-20 - (Full Year) Connected Load No. of Consumers Description Sales Sales Mix (MkWh) (%age) Nos. (kW) T

Description	Sales	Sales Mix	Consumers	Load	Factor	Fixed	Variable	Fixed	Variable	IDTR	Fixed	Variable	TOTA
						Charge	Charge	Charge	Charge		Charge	Charge	IUTAL
Destidential	(MkWh)	(%age)	Nos.	(kW)	(%age)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)		(Rs/kW/M)	(Rs/kWh)	(Rs/+Wh)
Residential				<u> </u>		ļ				ļ			
Consumption Op to 50 Onits A-TA (01)	55	0.33	483,869				4.00	·	2.00	· ·	-	2.00	2.00
O1-100 Hoits	1 2 4 26	20.07	2 215 100			<u> </u>							
101 - 200 Units	2 594	15.84	1 743 763				14.07		5.79			8.28	8.28
201 - 300 Units	2 141	13.07	437 458				14.70	· · · · · · · · · · · · · · · · · · ·	8,11			6.67	6.67
301 - 700 Units	983	6.00	136 047				18.84		17.60	(0.22)	<b>:</b>	5.75	5.75
Above 700 Units	143	0.87	4 127				10.04	· · · · · · · ·	20.70	(0.22)		1,40	1.24
A-1B (03), Peak	21	0.13				· · · · · · · · · · · · · · · · · · ·	19.58		20.70	(1.15)		0.00	(0.72)
A-18 (03), Off-Peak	96	0.59	14,803				13.98		14.38	(0.83)		0.04	(0.40)
Temporary Domestic E-11 (55)	1	0.00	256				18.60	·····	20.84	(2 24)			(2 24)
Total Residential	9,470	57.80	6,037,460	-	-	†	1	<u> </u>					1
		· · ·						+				<u> </u>	
For peak load requirement up to 5 law										·			
to peak load requirement up to 5 kw		-				-	-		-	-	· .	.	-
Commercial A-2A (04)	478	2.92	555,043	•		-	18.16		18.00	(0.61)	-	0.77	0.15
Above 100 units						-				-		· ·	
For peak load requirement							1				1		
exceeding 5 kw	4					·		·			· ·	<u> </u>	-
A-20 (00)	-	0.00	27	1,620		400.00	16.49	400.00	19.68	(3.19)	-		(3.19)
A-20 (00), Peak	/9	0.48					19.28		21.60	(2.32)			(2.32)
Temperan Commercial E 111 (EC)	339	2.07	19,204	2,048,251		400.00	13.30	400.00	15.63	(2.33)	· · · ·	· · ]	(2.33)
Total Commercial	6	0.04	1,720	-		· · ·	18.75	ļ	18.39	(0.55)		0.91	0.36
	903	5.51	5/5,994	2,049,872	-	[	<u> </u>						
B-1 (400 volts upto 40 km) (07)			11055			<b>:</b>	1				· · ·		-
B-1 (400 volts upto 40 km) (07)	32	0.20	14,855			i	17.93		15.28	-		2.65	2.65
B-1 (09) Peak		0.00	10				16.72		15.28	· · ·		1.44	1.44
B-1 (09) Off-Peak	280	1.76	21 670	2 002 602			18.92		18.84	(C.67)	· · ·	0.75	0.02
B-2 (400 volts 41-500 kw) 8-2A (10)	205	0.00	1 633	3,992,003		400.00	13.31		13.28	(0.68)	<b>.</b>	0.71	0.03
B-2B (12), Peak	153	0.93	1,000	33		400.00	19.90	400.00	14.78	(0.63)		0.75	0.12
B-2B (12), Off-Peak	989	6.04	8 594	5 546 340		400.00	13.05	400.00	10.78	(0.61)		0.82	0.21
B-3 (14), Peak	117	0.72				400,00	10 30	400.00	19.79	(0.70)	·	0.70	(0.01)
B-3 (14), Off-Peak	656	4.00	353	2 834 438		380.00	11 92	380.00	12 68	(1 17)	·	0.11	(1.06)
B-4 (17), Peak (5 MW & above)	38	0.23	-			-	18.95		18 78	(0.63)		0.80	0.17
B-4 (17), Off-Peak	195	1.19	7	701,266		360.00	12.86	360.00	12.88	(0.71)		0.00	(0.02)
Temporary Industrial E-2 (58)	0	0.00	81	-		•	16,10		16.36	(0.66)		0.00	(0.26)
Total Industrial	2,509	15.32	57,219	13,074,739	1							0.10	(0.20)
C1-A (19) Supply at 400 Volts - Peak Load	0	0.00	31	66		-	17.23		18.68	(1.45)			(1.45)
C1-B (25) Supply at 400 Volts - Peak Load	0	0.00	125	1,178		400.00	16.06	400.00	18.18	(2.12)	-	· ·	(2 12)
C1-C (26), Peak	7	0.04	-	-		-	19.84		21.60	(176)			(1.76)
C-1C (26), Off Peak	36	0.22	235	135,152		400.00	1.62	400.00	15.00	(3.38)			(3.38)
C-2A (28), Supply at 11 KV	·1_	0.01	9	2,614	~	380.00	4.65	380.00	17.98	(3.33)	-		(3.33)
C2-8 (29), Peak	. 34	0.21				· · · ·	6.92	-	21.60	(4.68)	-		(4.68)
C2-B (29), Off-Peak	162	0.99	54	488,994		380.00	12.93	380.00	14.60	(1.87)	-	-	(1.87)
C-34	2	0.01	1	23,980		360.00	20.25	360.00	17.88		·	2.37	2.37
C3 D (30), Peak		0.03					8.97	·	21.60	(2.63)			(2.63)
CO-D (30), UII-Peak	29	0.18	2	83,120		360.00	12.91	360.00	14.70	(1.79)		-	(1.79)
	276	1.68	457	735,104									
D-14 (11 42 43 44 46)							·						-
D-1B (45) Peak		0.00	2,723				16.47		15.68	(0.25)		1.03	0.79
D-1B (45) Off-Peak	3	0.02	-	107 707			19.44	-	18.60	(0 34)		1.18	0.84
D-2A (47 48 49 52) (NOR)		0.00	907	107,707		200.00	13.35	200.00	11.35			2.00	2.00
D-2A (47,48,49,52) (SUB)		0.00	9,039	2,239		200.00	15.54	200.00	5.35		<u>+</u>	10.19	10.19
D-2B (50,51,53,54) Peak (NOR)		0.00	40	2,143		200.00	19.08		5.35		1.13	10.03	11.16
D-2B (50,51,53,54) Off-Peak (NOR)		0.01	2 907	51 674		200.00	10.02	200.00	5:35			13.27	13.27
D-2B (50,51,53,54) Peak (SUB)	429	2.62		01,014			18 50	200.00	5.35			5.26	5.26
D-2B (50,51,53,54) Off-Peak (SUB)	2.431	14.84	76 725	15,136 233		200 00	10.00		5.35		1 75	13.13	6.97
Total Agricultural	2.917	17.80	92.105	15,300,595		200.00	10.31		0.00		1.25	3.02	0.07
					·								
G (72,73)	18	0.11	1.580				16 23		18 68	(2 45)			
Total Public Lighting	18	0.11	1.580				10.23		10.00	16.40			143
			.,					<u> </u>	·+			<del></del>	
H (76,79)	. 7	0.04	122				16 64		18.68	(2 04)			(2.04)
Total Residential Colonies	7	0.04	122					+		(2.04)			(2.04)
	- 1			t	<del></del>	·							
A-3a (66)	283	1.73	37,266				17.47		17.56	(0 74)	· · · ·	0.66	(0.09)
Total A-3a (66)	283	1.73	37,266										(0.03)
										····			
TOTAL	16,382	100.00	6,802,507	31,160,311									·····
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#### DF - FORM 27 (A) MEPCO

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#### Actual Revenue & Subsidy Statement

F.Y. 2019-20 - (Full Year)

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		ł	No. of	Connected	Load	NEPRA Det	ermined Tariff	GOP No	tified Tariff			Subsidy	
Description	Sales	Sales Mix	Consumers	Load	Factor	Fixed	Variable	Fixed	Variable	IDTR	Fixed	Variable	TOTAL
	I					Charge	Charge	Charge	Charge		Charge	Charge	TOTAL
	(MkWh)	(%age)	Nos.	(KVV)	(%age)	Hin Rs.	Min, Rs.	Min. Rs.	Min. Rs.	Min. Rs.	Min, Rs.	Min, Rs.	Min, Rs.
Residential				1				1					
Consumption Up to 50 Units A-1A (01)	55	0.33	483,869	-			219	1	110	-	-	110	110
Consumption Exceeding 50 Units A-1A (0						1							
01-100 Unite	3 436	20.07	3 216 408				10 246	·	10 204			20 452	79.452
101 - 200 Units	2 504	10.01	1 742 702	· · · · · · · · · · · · · · · · · · ·	·		10,340	· · · · · · · · · · · ·	15,054			20,432	20,432
101-200 Units	2,394	13.04	1,743,703	<u>·</u>	i	· · · · · · · ·	38,351		21,039	<u> </u>	-	17,312	17,312
201 - 300 Units	2,141	13.07	437,458		·		34,162	i	21,841		··	12,321	12,321
301 - 700 Units	983	6.00	136,047	-	· · ·		18,519	-	17,297	(216)	-	1,438	1,222
Above 700 Units	143	0.87	4,127	-			2,851	-	2,954	(113)	-	9	(103)
A-1B (03) Peak	21	0.13					408	1	431	(24)		1	(23)
A-1B (03) Off-Peak	96	0.59	14 803				1 348		1 3 8 7	(80)		12	(20)
Tomporary Demostic E 11 (55)		0.00	14,005				1,010		1,007				(33)
Temporary Domestic E-11 (55)		0.00	960				9			(1)	-		(0)
Total Residential	9,470	57.80	6,037,460	-		· ·	144,213	-	84,964	(434)	-	59,684	59,250
	- 1	-	-	-	-	- 1	-			-			-
For peak load requirement up to 5 kw			-	1 .	- I	· .		-	_	-	-		
Commercial A 2A (04)	479	2.02	555 042				0 0 00		0.600	(202)		260	77
Abase 400 units		2.52					0,000		0,005	(236)	····		//
Above too units					·	·		<b>.</b>			-	<u> </u>	
For peak load requirement				1									
exceeding 5 kw	-	-	-	-	-	-	-		-		-	-	-
A-2B (05)	0	0.00	27	1,620	-	1	3	1	3	(1)	-	-	(1)
A-2C (06), Peak	79	0.48		· ·	-		1 524		1 708	(184)	-		(184)
A-2C (06) Off-Peak	339	2.07	19 204	2 048 251		810	4 5 1 5	810	5 306	(701)			(791)
Temporany Commercial E 111 (56)		0.04	1 7 2 0 4	2,070,201			4.17		3,300				<u> </u>
Temporary Commercial E-111 (30)	0	0.04	1,720	-	<u> </u>	<u> </u>	11/		114	(3)	· · · · · · · · · · · · · · · · · · ·		4
i otai Commercial	903	5.51	575,994	2,049,872	-	820	14,845	820	15,741	(1,271)		375	(896)
		-	-	-	-	· · · ·	-						· ·
B-1 (400 volts upto 40 kw) (07)	32	0.20	14,855	-	-		582		496	-	-	86	86
B-1 (400 volts upto 40 kw) (08)	0	0.00	18	-	-		0		0			0	0
B-1 (09) Peak	40	0.24					751		747	(27)		30	
B 1 (00), Of Peak	280	1.70	24 670	2 000 000			2.045		2 027	(407)			
B-1 (09), Olf-Peak	289	1.76	31,678	3,992,603			3,845		3,837	(197)		205	8
B-2 (400 volts 41-500 kw) B-2A (10)	0	0.00	1,633	93	•	0	0	0	0	(0)	·•	0	0
B-2B (12), Peak	153	0.93			-	-	2,903		2,870	(93)	-	125	32
B-2B (12), Off-Peak	989	6.04	8,594	5,546,340	-	2,219	12,923	2.219	12,929	(694)	-	688	(6)
B-3 (14) Peak	117	0.72					2 277		2 205	(52)	-	123	72
B 3 (14) Off Peak	656	4 00	262	2 824 428		1.077	7 815	1.077	8 5 1 1	(766)		70	(606)
		4,00		2,034,430			740			(700)		70	(030)
B-4 (17), Peak (5 MVV & above)		0.23	· · ·	· · ·	<b>·</b>		/13		705	(24)	-	30	6
B-4 (17), Off-Peak	195	1.19	7	/01,265	-	252	2,505	252	2,509	(138)	•	134	(5)
Temporary Industrial E-2 (58)	0	0.00	81	-	-		8	-	8	(0)	-	0	(0)
Total Industrial	2,509	15.32	57,219	13,074,739	-	3,548	34,321	3,548	34,821	(1,991)	-	1,491	(499)
C1-A (19) Supply at 400 Volts - Peak Load	0	0.00	31	66			0		0	(0)			(0)
C1 B (25) Supply at 400 Valte Beak Load		0.00	406	4 4 70				·····					(0)
CI-B (25) Supply at 400 Volts - Feak Coad	🚽	0.00	123	1,170			·	· · · · ·				· · ·	
C1-C (26), Peak		0.04					144_	. • .	157	(13)		· · · · · · · · · · · · · · · · · · ·	(13)
C-1C (26), Off Peak	. 36	0.22	235	135,152	<u> </u>	54	415	54	536	(121)	-	-	(121)
C-2A (28), Supply at 11 KV	1	0.01	9	2,614	-	1	13	1	16	(3)	-	-	(3)
C2-B (29), Peak	34	0.21	-		-	-	571		728	(158)	-	-	(158)
C2-B (29) Off-Peak	162	0.99	54	488 994		186	2 089	186	2 392	(303)			(303)
C-3A		0.01		23 090			2,000		2,002				
C2 P (29) Deak	· ··· · ···2			23,900	└ <u>─</u>	ª .	100		20				
C3-D (30), Peak		0.03	<u>-</u>				106		21	(15)			(15)
C3-B (38), Off-Peak	29	0.18	2	83,120	-		3/5	30	427	(52)		·	(52)
Total Bulk	276	1.68	457	735,104	-	280	3,753	280	4,414	(665)		4	(661)
	-		-	-	-	-	-	- 1			-	-	- 1
D-1A (41.42.43.44.46)	0	0.00	2,723		-		1		1	(0)	-	0	0
D-18 (45) Peak		0.02			·		51		20	(1)			
D 18 (45) Off Book	· · · · · · · · · · · · · · · · · · ·	0.02		107 707						<u></u>			
D 24 (47 40 40 52)	40	0.28	90/	107,707	· · · · · ·		604		513			90	
U-2A (4/,48,49,52) (NOR)	0	0,00	9,039	2,239	·	°.	3			<u>`</u>		2	2
D-2A (47,48,49,52) (SUB)	0	0.00	48	2,743	-	1	7	·	3		1	5	5
D-2B (50,51,53,54) Peak (NOR)	1	0.01	<u> </u>	-	-		19	· ·	5	<u> </u>		13	13
D-2B (50,51,53,54) Off-Peak (NOR)	7	0.04	2,907	51,674		10	70	10	35	-	-	34	34
D-2B (50,51,53,54) Peak (SUB)	429	2.62		-	-		7.934		2.295	-	-	5.639	5,639
D-28 (50 51 53 54) Off-Peak (SUR)	2 431	14 84	76 725	15 136 233	-	3 027	26 674		13 008		3 027	13 665	16 693
D-2D (00,01,00,04) OII-I Cak (000)	2.017	17.90	02,400	15,100,200		2,020	25,014	- 23	15,000	(1)	2 0 2 0	10,000	22,479
rotai Agriculturai	2,917	17.80	92,409	15,300,595		3,060	30,362	32	12,911	(1)	3,028	19,492	22,419
	la se			·		L !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	•		. :		-		
G (72,73)	18	0.11	1,580		•	-	293	-	337	(44)		<sup></sup>	(44)
Total Public Lighting	18	0.11	1.580		_	-	293	- 1	337	(44)	-	-	(44)
			.,		_			<u> </u>					
11 (70 70)	un inge							· ·					
H (/0,/9)	(	0.04	122	-	<u> </u>	·	109	· · · · ·	123	(13)			(13)
Total Residential Colonies	7	0.04	122	-	-	·	109	-	123	(13)	-	-	(13)
		-	•	-	-	•		- 1			-	•	
A-3a (66)	283	1.73	37.266	-	-		4,941		4,966	(210)	-	186	(24)
Total A-32 (66)	283	1 72	37 764		-		1 9/1	<u> </u>	1 986	(210)		186	(24)
10tal A-Ja (00)	203	1.1.5	57,200			i	-4,341		4,300			100	(24)
	-	-											
TOTAL	16,382	100,00	6,802,507	31,160,311	-	7,708	237,838	4,680	161,276	(4,629)	3,028	81,192	79,590
												(0)	. (0)

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#### Actual Revenue & Subsidy Statement

Densisi		Sales	No. of	Connected	Load	NEPRA Det	ermined Tariff	GOP Not	ilied Tariff	1070		Subsidy	
Description	Sales	Mix	Consumers	Load	Factor	Fixed Charge	Variable Charge	Fixed Charge	Variable Charge	IDTR	Fixed Charge	Variable Charge	TOTAL
	(MkWh)	(%age)	Nos.	(kW)	(%age)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)		(Rs/kW/M)	(Rs/kWh)	(Ro/kWh)
Residential													
Consumption Go to 50 Units A-1A (01) Consumption Exceeding 50 Units A-1A (	1 21. 01)	0.13	354,969				4.00		2.00		<u> </u>	2.00	2
01-100 Units	1,779	10.86	4,399 021	i			15.45		5.79		· ·	9.66	10
101 - 200 Units	1,494	9.12	875,914	-			16.00		8.11			7.89	8
201 - 300 Units	1,309	7.99	181,788	·			17.07	·	10.20		· ·	6.87	7
301 - 700 Units	651	3.97	108,243				19.81		17.60			2.21	2
A-1B (03) Peak	102	0.62	14,414				20.79		20.70			0.09	0
A-18 (03), Off-Pesk	59	0.36	14,465				15.08		14.38		<u> </u>	0.70	1
Temporary Domestic E-11 (55)	0	0.00	379	-		-	20.17		20.84		-	(0.67)	(1
Total Residential	5,427	33.13	5.949,793	-								1	
		<u>-</u>									· · · · · · · · · · · · · · · · · · ·	-	-
For peak load requirement up to 5 kw								1					
Commercial A-2A (04)	300	1.83	550 747	· · · · · · · · · · · · · · · · · · ·			10.23		18.00			1 12	
Above 100 units		-		· · ·					10.00			1.25	
For peak load requirement											1		
exceeding 5 kw	•					L				İ			
A-2B (05)	0	0.00	27	926		400.00	17.59	400.00	19.68		· · · ·	(2.09)	(2
A-20 (96), Peak A-20 (96), Off Back	. 48	1.29	12 622	- 1 197 010		400,00	20.40	400.00	21.60		<u></u>	(1.20)	{1
Temporary Commercial E-111 (56)	- 201	0.02	13.632	1,107,912		400.00	20.07	400.00	15.03			1.68	(1
Total Commercial	553	3.37	571,106	1,188,838		·			10.00			1.00	
		-		-									
B-1 (400 volts upto 40 kw) (07)	20	0.12	14,865	•		•	19.07		15.28		-	3.79	4
B-1 (400 volts upto 40 kw) (08)	0	0.00	17	-			19.07		15.28			3.79	4
B-1 (09), Peak		0.14	21.250	-		<u> </u>	20.17		18.84		-	1.33	1
B-2 (400 volts 41-500 kw) B-24 (10)	- 1/2	1.05	31,352	2,182,658		400.00	14.47	- 400.00	13.28		· ·	1.19	1
B-2B (12), Peak	90	0.55	1,035	- 42		400.00	20 17	400.00	18.78			1 30	
B-28 (12), Off-Peak	573	3.50	8,492	3,231,332		400.00	14.27	400.00	13.07			1.20	1
B-3 (14), Peak	66	0.40	-	-		380.00	20.64	380.00	18.78		-	1.86	2
B-3 (14), Off-Peak	370	2.26	347	1,689,561		380.00	13.17	380.00	12.98			0.19	0
B-4 (17), Peak (5 MW & above)	22	0.13				360.00	20.17	360.00	18.75	-	<u>-</u>	1.39	1
Temporany Industrial E-2 (58)	- 112	0.69	80	398,633		360.00	14.07	360.00	12.88			1.19	
Total Industrial	1.448	8.84	56,793	7,502,426	<u>.</u>		10.52		10.00			0.00	
C1-A (19) Supply at 400 Volts - Peak Load	0	0.00	31	19			18.57		18.68		· · ·	(0.11)	(0)
C1-B (25) Supply at 400 Volts - Peak Loao	0	0.00	125	468		400.CO	18.07	400.00	18.18			(0.11)	(0)
C1-C (26), Peak	4	0.02	-	·····		400.C0	21.10	400.00	21.60		-	(0.50)	(1)
C-1C (26), Off Peak	20	0.12	235	77,989		400.00	12.91	400.00	15.00		· · ·	(2.09)	(2
C2.R (20), Supply 21 11 KV	10	0.00	a	1,410		380.00	16.02	380.00	17.98			(1.96)	
C2-B (29), Off-Peak	94	0.58	54	287 722		380.00	14 12	380.00	14 30			(0.68)	()
C-3A	1	0.01	1	17,160		360.00	20.87	360.00	17.85			2.99	
C3-B (39), Peak	3	0.02		-		360.00	20.17	360.00	21.60		-	(1 43)	(1)
C3-E (38), Off-Peak	17	0.11	2	53,389		360,00	14.07	360.00	14 70		-	(0.63)	(1)
Total Bulk	160	0.98	457	438,163									
D-1A (41 42 43 44 46)		0.00	2 723	<u>.</u>		i	18 12		15.68			- 2.44	
D-1B (45) Peak	2	0.01				200.00	20.67	200.00	18.60			2.07	2
D-16 (45) Off-Peak	22	0.13	\$78	53,786		200.00	14.84	209.00	11,35			3.49	3
D-2A (47,48,49,52) (NOR)	0	0.00	9,018	643		200.00	16.62	200.00	5.05			11.27	11
D-2A (47,48,49,52) (SUB)	0	0.00	64	1,466		200.00	16.62		5.35		200.00	11.27	211
D-28 (50,51,53,54) Peak (NOR)		0.00		75 000		200.00	19.75	200.00	5.35			14.40	14
D-2B (50,51,53,54) Peak (SUB)	242	1 47	2,001	25,009		200.00	19.22	200.00	5.35	<u> </u>	200.00	14.40	214
D-2B (50,51,53,54) Off-Peak (SUB)	1.373	8.38	74,632	7,331,408		200,00	12.22	·	5.35		200.00	6.87	207
Total Agricultural	1,641	10.02	90,296	7,412,372	-								
		-		-							-		-
G (72,73)	10	0.06	1,573	-		-	17.47	• .	18.68			(1.21)	(1)
Total Public Lighting	10	0.06	1,573										· · · · · · · · · · · · · · · · · · ·
H (76 70)			122		]		17.20		10.00				<u> </u>
Total Residential Colonies	4	0.02	. 122				17.90		10.56			(0.78)	(1)
								· · ·	<u> </u>				
A-3a (66)	160	0.98	35.945				18 72		17.56			1.16	1
Total A-3a (66)	160	0.98	35,945	-	-	-							
	-												
TOTAL	9,403	57.40	6,706,085	16,541,799		- · ·	-	-	-		-	-	•

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#### DF - FORM 27 (A) MEPCO

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#### Actual Revenue & Subsidy Statement F.Y. 2019-20 - (JULY-DECEMBER)

		Sales	No. of	Connected	brot	NEPRA Det	termined Tariff	GOP Not	ified Tariff	1	1	Subsidy	
Description	Sales	Mix	Consumers	Load	Factor	Fixed	Variable	Fixed	Variable	IDTR	Fixed	Variable	TOTAL
	l	i				Charge	Charge	Charge	Charge	L	Charge	Charge	TOTAL
	(MkVVn)	(%age)	Nos.	(kW)	(%age)	Min. Rs	Min. Rs	Min, Rs.	Vin. Rs	Min. Rs.	Min. Rs.	Min. Rs.	Min. Rs.
Residential													
Consumption Op to 50 Units A-TA (01)	<u>[</u>	0.13	354,969		ļ:		82		41			-41	41
Consumption Exceeding 50 Units A-1A (	1				<u> </u>					· ·	<u> </u>		
101-100 Units	1,779	10.86	4,399,021	-			27,485		10,300	<u> </u>	•	17,185	17,185
101 - 200 Units	1,494	9,12	875,914		· · · ·	l	23,909	-	12,119	·	· ·	11,790	11,790
201 - 300 Units	1,309	7.99	181,788	-		<u> </u>	22,338	· · · · · · · · · · · · · · · · · · ·	13,348	-	-	8,990	8,990
301 - 700 Units	651	3.97	108,243	<u> </u>		-	12,887	1	11,449	-	- '	1,438	1,438
Above 700 Units	102	0.62	14,414	·	-	- <u>-</u>	2,122	-	2,113	-	-	9	9
A-1B (03), Peak	. 12	0.07	-	-	-	·	255	-	254	-	-	1	1
A-1B (03), Off-Peak	59	0.36	14,465	- · ·	-		896	-	854	-	-	42	42
Temporary Domestic E-11 (55)	0	0.00	979	-	-		5		5	(0)	-	-	(0)
Total Residential	5,427	33.13	5,949,793	-			89,979	-	50,484	(0)	-	39,495	39,495
			-	-		-		-			-		
F													
For peak load requirement up to 5 kw	1 -	-	-	-	-								
Commercial A-2A (04)	300	1.83	550 747	-			5 772		5 403			369	
Above 100 units				· · ·					0,400				
For peak load requirement	·												
averaging 5 km			_										
A-28 (05)		0.00		072			· - ···		· · · · · · · · · · · · · · · · · · ·				
A-2C (06) Peak	10	0.00	61	320				<u> </u>	1 0 10		<u> </u>		(0)
A-2C (06) Off Pusk	201	1.29	19 600	1 197 040	<u>·</u>		302		1,040	(58)	·		(58)
Temperany Commercial E 111 (F6)		0.02	10,032	1,107,912		4/5	· <del>2,909</del>	4/5	3,143	(233)			(233)
Table Commercial E-111 (50)	5	0.02	1,700	-	-	-	67		62			6	6
lotal Commercial	553	3.37	5/1,106	1,188,838		476	9,733	476	9,649	(291)	-	375	84
		; <b>-</b>				·					·	-	
B-1 (400 volts upto 40 kw) (C7)	20	0.12	14,865	·-		·	373		299			74	74
B-1 (400 volts upto 40 kw) (08)	0	0.00	17	-	· · ·	<u> </u>	0		0	· · · · ·	-	0	0
B-1 (09), Peak	22	0.14		•	-		452		422		-	30	30
B-1 (09), Off-Peak	172	1.05	31,352	2,182,858	-	-	2,487	-	2,283	•	-	205	205
B-2 (400 volts 41-500 kw) B-2A (10)	0	0.00	1,633	42	- 1	0	0	0	0	· ·	-	0	0
B-2B (12), Peak	90	0.55	-	-	-	-	1,817	-	1,692	-	-	125	125
B-2B (12), Off-Peak	573	3.50	8,492	3,231,332	-	1,293	8,183	1,293	7,495		-	688	688
B-3 (14), Peak	66	0.40	-	-	-	-	1,368		1,245	-	-	123	123
B-3 (14), Off-Peak	370	2.26	347	1,689,561	-	642	4,871	642	4,800		-	70	70
B-4 (17), Peak (5 MW & above)	22	0.13	•	-	-		436		405			30	30
B-4 (17), Off-Peak	112	0.69	7	398,633		144	1,582	144	1,448		-	134	134
Temporary Industrial E-2 (58)	0	0.00	80	·	-		G		6			0	0
Total Industrial	1,448	8.84	56,793	7,502,426	-	2.078	21.575	2.078	20.096			1.479	1.479
C1-A (19) Supply at 400 Volts - Peak Load	0	0.00	31	19			0		0	(0)			(0)
C1-B (25) Supply at 400 Volts - Peak Load	0	0.00	125	468	-	0		····· .					
C1-C (26). Peak	4	0.02					85	····		(0)			
C-1C (26) Off Peak	20	0.12	235	77 080			254		205	(41)			(41)
C-24 (28) Sucoly at 11 KV	0	- 0.00	0	1 4 16					295		<u> </u>		
C2_B (20) Peak	10	0.00											
C2-B (29), 1 flak	13	0.12		227 722		100	1 222	400	410	(00)			(00)
C 3A		0.00		201,122		109	1,332	709	1,397	(64)			(64)
C2 D (29) Deals	·	0.01	1	17,760		6	26	6	22			4	4
C3-B (38), Peak		0.02	·····				66	-	70	(5)			(5)
Сэ-в (зо), UII-Peak	1/	0,11	2	53,389		19	243	19	254	(11)			(11)
I OTAL BUIK	160	0.98	457	438,163		167	2,367	167	2,554	(190)	-	4	(187)
						·	·			•			·
D-1A (41,42,43,44,46)	0	0.00	2,723				1		1	•		0	0
U-16 (45) Peak		0.01		-			31	ا السبب	28	· ·		3	3
D-1B (45) Off-Peak	22	0.13	978	53,786	<u> </u>	11	323	11	247		-	76	76
D-2A (47,48,49,52) (NOR)	0	0.00	9,018	643		0	2	0	1	- 1	-	-1	1
D-2A (47,48,49,52) (SUB)	0	0.00	64	1,466		0	5	-	1		0	3	3
D-2B (50,51,53,54) Peak (NOR)	1	0.00		-		-	12		3			9	9
D-2B (50,51,53,54) Olf-Peak (NOR)	3	0.02	2,881	25,069	-	5	35	5	15			20	20
D-2B (50,51,53,54) Peak (SUB)	242	1.47	-		-	1	4,770	-	1,292			3,478	3,478
D-2B (50,51,53,54) Off-Peak (SUB)	1,373	8.38	74,632	7,331,408	-	1,466	16,774		7,344	- 1	1,466	9,430	10,896
Total Agricultural	1,641	10.02	90,296	7,412.372	1	1.482	21.952	16	8,932	. 1	1,467	13,020	14,487
											.,		
G (72.73)	10	0.06	1.573				179		101	(12)			(12)
Total Public Lighting	10	an.0	1 573				470		101	(12)			(12)
reat rubic Lighting			1,573				1/3		193	(12)			(12)
H (76 70)													
Tatal Desidential Calenica		0.02	122	·			56		69	(3)			(3)
i utar Residential Colonies	4	0.02	122				66	-	69	(3)			(3)
					l	_ :			<u> </u>		-		
A-3a (66)	160	0.98	35,945	-		·	2,995	•	2,809	-	-	185	186
Total A-3a (66)	160	0.98	35,945	l	-		2,995	-	2,809	-	•	186	186
		- T		1									
TOTAL	9,403	57.40	6,706,085	16,541,799	-	4,203	148,846	2,736	94,784	(497)	1,467	54,559	55,529

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#### Actual Revenue & Subsidy Statement

F.Y. 2019-20 - (JAN-JUNE)

		]	No.of	Connected	Load	NEPRA Det	ermined Tariff	GOP Not	ified Tariff			Subsidy	. ]
Description	Sales	Sales Mix	Consumers	Load	Factor	Fixed	Variable	Fixed	Variable	IDTR	Fixed	Variable	TOTAL
						Charge	Charge	Charge	Charge		Charge	Charge	
	(MkWh)	(%age)	Nos.	(kW)	(%age)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWF)		(Rs/kW/M)	(Rs/kWh)	(Rs/kWh)
Residential		0.24	403.960			.			1.00				
Consumption Op to 50 Onits A-1A (01)	1	0.21	452,059		+	• • • • • • • • • • • • • • • • • • • •	4.00		2.00			2.00	2
01-100 Units	1,657	10.11	3,216,408			· · ·	12.59		5.79	ŀ		6.80	7
101 - 200 Units	1,100	6.71	1,743,763	-			13.13		8.11		-	5.02	5
201 - 300 Units	833	5.08	437,458			1	14.20		10.20		· ·	4.00	4
301 - 700 Units	332	2.03	136,047	·			16.95	· ·	17.60		-	(0.65)	(1)
Above 700 Units	41	0.25	4,127	·			17.93	<b>.</b>	20.70			(2.77)	(3)
A-1B (03), Peak	9	0.05		·			17.90		20.70		·	(2.80)	(3)
A-16 (03), Oll-Feak		0.00	14,803				17.20		14.38			(2.17)	(2)
Total Residential	4 043	24.58	6.037.460		<u> </u>		17.50		20,04		- <u> </u>	(3.54)	(4)
Total Residential			0,007,400		<u> </u>	1	h						
For peak load requirement up to 5 kw	-	- 1				1						-	-
Commercial A-2A (04)	178	1.09	555.043	-			16.36	•	18.00		•	(1.64)	(2)
Above 100 units				-	L						-	-	-
For peak load requirement	1					1							
exceeding 5 kw	· · · · · · · · · · · · · · · · · · ·	0.00			· [	1-100.00	44.70	400.00				-	
A-2C (06), Peak	31	0.00	<u>4/</u>	692		400.00	14.70	400.00	21.60	·	i	(4.98)	(5)
A-2C (06), Off-P-ak	138	0.13	19 204	860 339	·	400.00	11.53	400.00	15.63		<u>-</u>	(4.07)	(4) (A)
Temporary Commercial E-111 (56)	3	0.02	1,720	-	i		17.20		18.39			(1.19)	(1)
Total Commercial	350	2.14	575,994	361,034	· ·	†	t						
		· · ·									. · · · ·	-	
B-1 (400 volts upto 40 kw) (07)	13	0.08	14,855	-		······································	16.20		15.28		-	0.92	1
B-1 (400 volts upto 40 kw) (08)	0	0.00	18			<b>.</b>	16.20		15.28		•	0.92	1
B-1 (09), Peak	17	0.11					17.30	····	18.84			(1.54)	?
B-2 (400 yolls 41-500 km) B-24 (10)		0.00	31.078	1,809,745		100 00	11.60	- 400.00	13.28	··		(1.68)	
B-2B (12) Peak	63	0.00	1,033	50		400.00	17 30	400,00	19.79		<sup>-</sup>	(1.08)	
B-2B (12), Off-Peak	416	2.54	8,594	2.315.008		400.00	11 40	400.00	13.07		-	(1.40)	(2)
B-3 (14), Peak	51	0.31		-		380.00	17.77	380.00	18.78	•••••		(1.01)	(1)
B-3 (14), Off-Peak	286	1.75	353	1,144,877		380.00	10.30	380.00	12.98		•.	(2.68)	(3)
B-4 (17), Peak (5 MW & above)		0.10	-	-		_ 360.00	17.30	360.00	18.78		-	(1.48)	(1)
B-4 (17), Off-Peak	82	0.50	7	302,634		350.00	11.20	360,00	12.88		-	(1.68)	(2)
Temporary Industrial E-2 (58)	0	0.00	51	-		· · ·	14.05	-	15.36	_	•	(2.31)	(2)
C1-A (19) Supply at 400 Volts - Peak Load	1,061	0.48	51,219	5,5/2,314	-		15 70		10.00			(2.00)	(2)
C1-B (25) Supply at 400 Volts - Peak Load	0	0.00	125	710		400.00	15 70	400.00	18.00			(2.98)	(3)
C1-C (26), Peak		0.02			í — — —	400.00	18 25	400.00	21.60	·		(3.35)	/31
C-1C (26), Off Peak	16	0.10	235	57,163		400.00	10.04	400,00	15.00			(4.95)	(5)
C-2A (28), Supply at 11 KV	υ	0.00	9	1,198		380.00	13.15	380.00	17.98			(4.83)	(5)
C2-B (29), Peak	14	0.09	·			380.00	15.28	380.00	21.60		-	(6.32)	(6)
C2-B (29), Off-Peak	67	0.41	54	201,272		380.00	11.25	380.00	14.80		•	(3.55)	(4)
C-3A	·0_	0.00	1	6,820	ļ	360.00	18.00	360.00	17.88			0.12	0
C3-D (30), Peak		0.01		20 720		360.00	17.30	360.00	21.60		<b>:</b>	(4.30)	(4)
Total Bulk	116	0.07	2	29,730		300,00	11.20	300.00	14.7U			(3.50)	(4)
	- 10			200,041									
D-1A (41,42,43,44,46)	0	0.00	2,725				15.25		15.68			(0.43)	
D-1B (45) Peak	<u> </u>	0.01		-		200 00	17.80	200.00	13.60			(0.80)	(1)
D-1B (45) Off-Peak	23	0.14	967	53,921		200.00	11.97	200.00	11.35		- 1	0.62	1
D-2A (47,48,49,52) (NOR)	0	0.00	9,039	1,596		200.00	13.75	200.00	5.35			8.40	8
D-2A (47,48,49,52) (SUB)	0	0.00	48	1,277	L	200.00	13.75		5.35		200.00	8.40	208
D-28 (50,51,53,54) Peak (NOR)	<u>0</u>	0.00				200.00	16.88	200.00	5.35			11.53	12
D-28 (50 51 53 54) DI-Peak (NUK)	187	0.02	2,907	26,605		200.00	9.35	200.00	5 35		-	4.00	
D-2B (50,51,53,54) Off-Peak (SUB)	1.059	6.46	76 725	7 804 825		200.00 200.00	9.35	anato na T	5 35	·	200.00	4 00	212
Total Agricultural	1,275	7.78	92.409	7,888.223		200.00	5.05		3.33		200.00	4.00	204
												_	<u> </u>
G (72,73)	8	0.05	1,580				14.60	-	18.68			. (4.08)	
Total Public Lighting	8	0.05	1,580		-								
	· · ·										-	-	
H (76,79)	3	0.02	122	-			15.03		18.68		-	(3.65)	(4)
Total Residential Colonies	3	0.02	122										
A 2= (65)		5.75					10.00						
A-38 (00)	123	0.75	37,266				15.85		17.56			(1.71)	(2)
10(a) A-34 (00)	123	0.75	37,200		<sup>-</sup>								
TOTAL	6 979	42.60	6 802 507	14 618 512				·					

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#### Actual Revenue & Subsidy Statement F.Y. 2019-20 - (JAN-JUNE)

			No of	Connected	Load	NEPRA Dete	ermined Tariff	GOP Not	ified Tariff	1		Subsidy	
Description	Sales	Sales Mix	Constant	Let de la connecteu	Load	Fixed	Variable	Fixed	Variable	IDTR	Fixed	Variable	
		ł	consumers	Loau	Factor	Charge	Charge	Charge	Charge		Charge	Charge	TOTAL
	(MikWh)	(%200)	Nor	1000	19/ 2001	Hin Re	Atte De	- We De	Uta De	444.00	Unarge .	- Unit qe	
Pasidontial		(Wage)		(////	( Mage /	(681, 755	MO. 75.	MIN. PS.	Min. RS.	Min, RS,	MIN. KS.	MIN, RS.	Min, RS.
Residentia												L	
Consumption Up to 50 Units A-1A (01)	34	0.21	483,869	-	•		137	-	69	-	-	69	69
Consumption Exceeding 50 Units A-1A (	¢ -		•	-	-			-	-	-			
01-100 Units	1 657	10.11	3 216 408	-			20.862		9 504			11 269	11 269
101 200 Linite	1 100	0.74	4 742 700		· · · · · · · · · · · · · · · · · · ·		20,002		5,334	·····		11,200	11,200
101 - 200 Oracs	1. 1.100	0.71	1,743,763			······· .	14,441		8,920		-	5,521	5,521
201 - 300 Units	833	5.08	437,458	-	-	-	11,823		8,493		-	3,330	3,330
301 - 700 Units	332	2.03	136.047		-		5 632		5 848	(216)			(216)
Above 700 Linits	41	0.25	4 127		<u> </u>		700		044	(110)			(440)
A 19 (02) Deals		- 0.20					125			(113)	-		113
A-1D (US), Feak	· · · · · · · · · · · ·	0.05			<u> </u>		153		1/1	(24)	-		(24)
A-1B (03), Off-Peak	37	0.23	14,803	-	-	-	453	-	533	(80)	-	-	(80)
Temporary Domestic E-11 (55)	0	0.00	985	-			5	-	6	(1)			(1)
Total Residential	4 043	24.68	6 037 460				64 224		24 490	(424)		20 499	10.754
	·····		0,007,400				54,254		54,400	(434)	•	20,100	15,754
	· · · · · · · · · · · · · · · · · · ·			•					·	-	-	-	
For peak load requirement up to 5 km						1							
i of peak load requirement up to 5 km		-		-	- 1	- 1	-	-	- 1	-	-	1 .	-
Commercial A-2A (04)	178	1 09	555 C43				2014		2 206	(202)			(202)
Above 100 upite							<u> </u>		0,200	12521		··· · · ·	(252)
						· • • • •		·		<u> </u>	<u> </u>		-
For peak load requirement									4	1 1			
exceeding 5 kw		-	- 1	•	-		-	-	- 1	1 - 1	-	-	-
A-2B (05)	0	0.00	27	695		0	1	т : <sub>о</sub>	1	(0)	-		(0)
A-2C (06) Peak	31	0.10	· · · · · · · · · · · · · · · · · · ·			··		· · · *		11201		1	(100)
A 2C (06) (0ff Beek	1.20	0.18	10.05		·	·· · <u>.</u>	592		668	(120)	<u> </u>	i	(126)
A-20 (00), UI-Peak	138	0.84	19,204	860,339		314	1,605	344	2,163	(558)	·		(558)
Temporary Commercial E-111 (56)	3	0.02	1,720	-		!	49		. 53	(3)	-	- 1	(3)
Total Commercial	350	2.14	575,994	861.034	-	344	5,112	344	6.092	(980)	•		(980)
	<u> </u>											<u>├────</u> ┤	(000)
B-1 (400 valls upto 40 km) (07)	40	0.00	11000							⊧l	<b>-</b>		
D-1 (400 Volt3 dpt0 40 km) (07)		0.00	14,000		·		209		197	-		12	12
B-1 (400 Volts upto 40 kw) (08)		0.00	18		-		0		0		•	0	0
B-1 (09), Peak	17	0.11	-	-	-		299	•	326	(27)	-		(27)
B-1 (09), Off-Peak	117	0.71	31,678	1.809.745	-	-	1 358	-	1 554	(197)	<u>-</u> -		(197)
B-2 (400 volts 41-500 kw) B-2A (10)	0	0.00	1 633	. 50		0	0	0		(0)			(0)
B-2B (12) Besk	62	0.00			• <b>_</b>	v	1.000	···		(0)	· ·	-	
D-2D (12), Feak		0.50				······	1,086		1,178	(93)	•	-	(93)
B-28 (12), Off-Peak	415	2.54	8,594	2,315,008		926	4,740	926	5,435	(694)	-	-	(694)
B-3 (14), Peak	51	0.31	-	-	-	-	909		960	(52)	•	- 1	(52)
B-3 (14), Off-Peak	286	1,75	353	1.144.877	-	435	2.945	435	3 711	(766)			(766)
B-4 (17) Peak (5 MW & above)	16	0.10					27.7		300	(24)			(24)
P.4 (17) Off Posk		0.50		202 024					300	(24)			(24)
D-4 (17), OII-reak		0.50		302,034		109	942	109	1,061	(138)	·····		(138)
Temporary Industrial E-2 (58)		0.00	81	-		-	2	-	2	(0)	-	I	(0)
Total Industrial	1,061	6.48	57,219	5,572,314	•	1,470	12,745	1,470	14,725	(1,991)	•	12	(1,979)
C1-A (19) Supply at 400 Volts - Peak Load	0	0.00	31	47	-	- 1	0		0	(0)	-		(0)
C1-B (25) Supply at 400 Volts - Peak Load	0	0.00	125	710				0	6	(1)			(1)
C1_C (26) Peak		0.32					· - · · · · · · · · · · · · · · · · · ·					(	
01-0120), Fedx		0.02					59		- 69	(11)	· · · · · · · · · · · · · · · · · · ·		(11)
C-1C (26), Off Peak	16	0.10	235	57,163	-	23	161	23	240	(79)	-	í - 1	(79)
C-2A (28), Supply at 11 KV	0 (	0.00	9	1,198		0	6	0	8	(2)		- 1	(2)
C2-B (29) Peak	14	0.09					221		312	(01)			(01)
C2-B (29) Off-Peak	67	0.41	54	201 272		76	767		006	(220)			(220)
C 3A	%	0.02		201,212		(입니	/91		990	(239)	· ·	ł	(239)
	<u>-</u>	0.00	1	6,820		2	6	2	6	-	· ·	0	0
C3-B (38), Peak	2	0.01	-	-	-	·	40		50	(10)	-	I - T	(10)
C3-B (38), Off-Peak	12	0.07	2	29,730	-	11	132	11	173	(41)	-		(41)
Total Bulk	115	0.71	457	296.941	. 1	113	1.386	113	1 860	(475)		<u>n t</u>	1474
							1,000			(-, 0)			(7(4)
D 14 (41 42 42 44 46)	ايو تي العد الع						· · · · · · · · · · · · · · · · · · ·						
D-17 (41,42,43,44,40)	· · · · · · · · · · · · · · · · · · ·	0.00	2,723						1	(0)	<del>.</del>		(0)
U-16 (45) Peak	1	0.01		-			20		21	(1)	-	4 - T	(1)
D-1B (45) Off-Peak	23	0.14	967	53,921		11	281	<u>11</u>	266		•	15	15
D-2A (47,48,49,52) (NOR)	0	0.00	9 039	1.596			1	0				i	1
D-2A (47 48 49 52) (SUR)		0.00		1 277		šŀ	· · · · · · · · · · · · · · · · · · ·					÷ł	
D 2P (50 51 52 54) Deale (NOD)		0.00		1,277						<u> </u>	0		<u>2</u>
0-20 (00,01,00,04) Feak (NOR)		0.00				i			2	·	<u> </u>	5	5
U-20 (50,51,53,54) Off-Peak (NOR)	4	0.02	2,907	26,605	· ·		34	5	20	-	-	15	15
D-2B (50,51,53,54) Peak (SUB)	187	1.14			•		3,164	-	1,003	- 1	-	2,161	2,161
D-2B (50,51,53,54) Off-Peak (SUB)	1,059	6.46	76,725	7,804,825	-	1,561	9,900	·· · ·	5,665		1,561	4.235	5,796
Total Agricultural	1,275	7 78	92 409	7 888 223		1 578	13 410	16	6 070	/11	1 561	6 432	7 007
				7,000,220	-	1,0,0			0,010		1,001	0,700	1,000
0.70.70								·	·		-		
G (12,73)	в	0.05	1,580		-	•	114		146	(32)	· · · ·	1	(32)
Total Public Lighting	. 8 .	0.05	1,580		- 1	- 1	114		146	(32)	-	- 1	(32)
	-	. 1					- 1					. 1	
H (76 79)	3	0.02	122				43	•••••••••••••••••••••••••••••••••••••••	54	(11)			/111
Total Posidential Colonies		0.02											
rordi Nesideridal Golonies		0.02	122				43		54	(11)			(11)
				- 1	- 1			- 1					- 1
IA-3a (66)	· · · · · · · · · · · · · · · · · · ·										-		
	123	0.75	37.266	. 1	-		1,946		2,156	(210)			(210)
Total A-3a (66)	123 123	0.75	37.266		-		1,946		2,156	(210)			(210)
Total A-3a (66)	123 123	0.75	37.266 37,266	•	-	•	1,946 1,946		2,156 2,156	(210) (210)			(210) (210)
Total A-3a (66)	123	0.75	37.266		-		1,946 1,946		2,156 2,156	(210) (210)		-	(210) (210)

MEPCO
Revenue & Subsidy Statement - Proposed
EV 2020 24 (Eull Vear)

	e.,1	Calar 11	No. of	Connected	Load	Revenue a Propos	ed Tarilf	Revenue a Notifie	is per GoP d Tariff	פדחו		Subsidy	
Description	Sales	Sales WIX	Consumers	Load	Factor	Fixed Charge	Variable Charge	Fixed Charge	Variable Charge	ion	Fixed Charge	Variable Charges	TOTAL
	(MSWb)	(%age)	Nos.	(kW)	(%age)	(Rs/kW/M)	(Rs/kWh)	(Rs/kVI/M)	(Rs/kWh)		(Rs/kW/M)	(Rs/kWh)	(Rs/kWh)
Residential													
Up to 50 Units	62	0.37	531,314				5.01		4.96	<u>-</u>	<u>-</u>	0.05	
01-100 Units	1 571	9.33	3,672.561				19.84		11.75		-	8.09	
101-200 Units	2,692	16.08	1,779,878			[ · ]	20.51		14.21	·		6.30	
201-300 Units	2,230	13.32	358,572				21.85	· · · ·	16.57	<u> </u>		5.28	
301-700Units	2,491	14.83	100,981				24.97		24.60	(1.75)		- 0.37	
For peak load requirement exceeding 5 kW		3.19	4,011				- 20.20		- 21,55		· · ·	-	
Time of Use (TOU) - Peak	24	0.14					26.13		27.93	(1.80)			
Time of Use (TOU) - Off-Peak	96	0.57	17,204		·		19.00		20.17	(1.17)	<u>·</u>	-	
Temporary Total Residential	0 635	0.00	1,042 6 466 363		<u> </u>	<u>├</u>	25.41	<u>-</u>	21.83	(2.32)	<u> </u>	-	i
Commercial - A2			0,400,000		1	· · ·	-		-	-	· ·		
Commercial - A-2A	478	2.86	586,556				24.30	· ·	24.86	(0.56)			
Commercial (<100)						440		140		<u>;</u>		·	
Commercial (<20 KW)		_		1		440	-	440		l .	1.		
Regular A-2B	0	0.00	27	1,620		440	22.00	440	26.08	(4.08)			
A-2C (TOU) - Pezk (A-2)	98	0.58				440	25.55	440	28 72	(3.17)	· ·	· · · ·	
A-2C (TOU) - Off-Peak	321	1.92	21,191	2,048,251		440	18.11	440	21.24	(3.13)			
Tetal Commercial	6 903	0.01	609 724	2 049 371	┼───		25.30		23.47	(0.11)	<u>   </u>	<u> </u>	
Industrial		-		1.010.01	<u> </u>				-		-	<u> </u>	
B1 (400 Volts Upto 40kw) (07)	33	0.20	15,159				24.07		22.10	-	· · ·	1.97	
B1 (400 Volts Upto 40kw) (08)			18			I.	24.07		22.10		<u> </u>	1.97	
B1 (b) (Peak)	<u>68</u> 267	0.41	34 158	3 992 503			25.45	<u>-</u>	25.94	(0.49)		<u> </u>	
B2 (400 Volts 41-500 kw) B2-A (10)		00.0	1,673	93		440	20.71	440	20.92	(0.21)	-		
82 - B TOU (Peak).	199	1.19				440	25.22	440	25.83	(0.61)	· ·	· · ·	
B2 - B TOU (Off-peak)	968	5.78	9,187	5,546,340		440	17.82	440	18.62	(0.80)	·		
B3 - TOU (Peak)	650	3.88	372	2.834.433		420	16,45		18.26	(1.81)	<u> </u>	<u></u>	
B4 - TOU (Peak)	36	0.21	-		İ	400	25.22	400	25.83	(0.61)	-	•	
B4 - TOU (Off-peak)	199	1,19	8	701,266		400	17.57	400	18.38	(0.81)	<u> </u>		
Temporary E-2 (58)	3	0.02	85	*1 174 740			21.37	•	22.63	(1.26)		<u> </u>	
Pulk	2,366	15.33	60,005	13,074,740	<u> </u>			<u> </u>		<u> </u>		<u> </u>	├
C1(A) Supply at 400 Volts - up to 5 kW	0	0.00	32	60	·		23.48		25.38	(1.90)	-	•	
C1(B) Supply at 400 Volts - above 5 kW	C	0.00	123	1,178		440	22.63	440	24.71	(2.08)			
C-1C Time of Use (TOU) - Peak		0.07		125 162	ļ	440	26.45	440	28.90	(2.45)			<u>├</u>
C2A Supply at 11 kV		0.20	241	2.614		440	20.06	440	23.99	(3.93)		· · ·	
C-28 Time of Use (TOU) - Peak	51	0.31				420	22.73	120	28.15	(5.42)	<u> </u>	-	
C-2B Time of Use (TOU) - Off Peak	149	0.83	57	488,394		420	17,67	420	20.32	(2.65)	-	-	
C3-A Supply above 11 kV	2.	0.01	1_	23,980		400	19.99	400	23.87	(3.88)		<u> </u>	
C3-B Time of Use (TOU) - Peak C3-B Time of Use (TOU) - Off-Peak	30	0.03		83,120	+	400	17.61	400	20.21	(2.60)			
Total Single Point Supply	282	1.69	471	735,104	<u> </u>					-	-	-	
Agricultural Tube-wells - Tariff D						· · ·				· ·	-		
D-1A (41,42,43,44,46)		0.00	2,757				22.91	200	22.25	<b>-</b>	<u></u>	0.65	
U-18 (45) Peak	10	0.06	951	107 707		200	18.80	200	17.10		+	1.70	
D-2A (47,48,49,52) (NOR)	6	0.00	9,378	2 239		200	17,34	200	10.81	· ·	-	6.53	
D-2A (47,48,49,52) (SUB)	0	0.00	3	2,743		200	17.34		10.81		200.00	6.53	
D-2B (50,51,53,54) Peak (NOR)	<u>0</u>	0.00		51 274		- 200	24.96	200	12.35			12.61	
D-2B (50 51 53 54) Oit-Peak (NOR)	434	2 59	3,26/	51,0/4		200	24,96		12.35		200.00	12.61	
D-2B (50,51,53,54) Off-Peak (SUB)	2,505	14.97	84,163	15,136,233		200	15.52		10.44	-	200.00	5.08	
		-					:	-	-	-	-		
Total Agricultural	2,990	17.86	100,540						26.40	(2.00)	-	ļ	
Public Lighting G	19	0.11	1,683	•			22.10	: -	25.10	(3.00)		-	
Special Contracts - Tariff K (AJK)	^				1		-				-	-	1
Time of Use (TOU) - Peak						·		· ·		· · · ·		· ·	
Time of Use (TOU) - Off-Peak	200		-		·	: <b>-</b>		·	24.00	(1.79)	· ·		<u>  </u>
A-38 (00)	289	1./3	41,455	<u></u>	·			<sup>-</sup>	- 24.00	- (1.78)	<u> </u> _		<u>├</u>
Grand Total	16,741	100.00	7,281,004	15,359,715	<u>†</u>						1		

FORM - 28 MEPCO

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#### FORM - 28 MEPCO

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WEFUU
Revenue & Subsidy Statement - Proposed
EV 2020.21 - (Eull Year)

Description	Sales	Sales Mix	No. of	Connected	Load	Revenue a Proposi	is per New ed Tariff	Revenue : Notifie	as per GoP d Tariff	IDTR		Subsidy	
			Consumers	Lbad		Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	TOTAL
	(MkWh)	(%age)	Nes,	(kW)	(%age)	(Rs/kV//M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)		(Rs/kW/M)	(Rs/kWh)	(Rs/kWh)
Residential										L			
Up to 50 Units	62	0.37	531,314		<u> </u>	<b>.</b>	5.02	· ·	4 97	•		0.05	
For peak load requirement up to 5 kW						t	40.05	· · · · · · · · · · · · · · · · · · ·		<u> </u>			
01-100 Units	1,5/1	9.38	3,672,561		<u> </u>		19.85		- 11.70			6.09	
201 300 Units	2,092	13.32	358 572				20.01	·· :	16.58		<u> </u>	5.30	
301-700Units	2,200	14.88	100,981				24.98		24.61			0.37	
Above 700 Units	519	3.10	4,811			• • •	26.21	-	27.96	(1.75)	-		
For peak load requirement exceeding 5 kW		•						· ·		-	-		
Time of Use (TOU) - Peak	24	0.14				·	26.14	<del>-</del>	27.94	(1.80)	<u> </u>		
Time of Use (TOU) - Off-Peak	96	0.57	17,204		·		19.01		20.18	(1.17)			
Temporary	0.696	67.95	6 466 262			·	25.42	· · · ·	21.94	(2.52)			
Commercial A2	5,005	57.05	0,400,303		<u> </u>			<u>i</u>				-	
Commercial - A-2A	478	2.86	586 556				24.31	·	24.87	(0.56)			
Commercial (<100)						440		440	-				
Commercial (<20 KW)													
For peak load requirement exceeding 5 kV/		·				440		440					
Regular A-2B	0	0.00	27	1,620		440	22.01	440	26.09	(4.08)			
A-2C (10U) - Peak (A-2)	98	- 0.58		2.049.251	·	440	25.55	440	28.72	(3.17)		└──- <u>`</u>	
Temporary Commercial E-111 (56)	<u>321</u> .	0.04	1 050	2,048,251		- 110	75.12	140	21.25	(0.13)	<u> </u>	· ·	
Total Commercial	903	5.40	609 724	2 049 871			23.31	<u> </u>	20,40	(0.(1)			
Industrial				2,0,0,011	<u> </u>	<u>├</u>	···	+••••• <u>·</u>	· · ·			-	
B1 (400 Volts Upto 40kw) (07)	33	0.20	15,159			· .	24,07		22.10			1.97	
B1 (400 Volts Uplo 40kw) (08)			. 18			•	24.07	-	22.10	•	· ·	1.97	
B1 (b) (Peak)	68	0.41					25.45		25.94	(0.49)		-	
B1 (b) (Off-Peak)	267	1.59	34,158	3,992,603			18.31		18.94	(0.63)			
B2 (400 Volts 41-500 kw) B2-A (10)	0	0.00	1,678	93	<u> </u>	440	20.71	440	20.92	(0.21)	· ·	•	
B2 - B TOU (Peak)	199	1.19		5 546 240	——	440	25.23	440	25.84	(0.61)	•	•	
B3 - TOU (Peak)	143	0.85	9,107	5,546,540	———	440	25.82	440	25.06	(0.00)			
B3 - TOU (Off-ceak)	650	3.88	372	2,834,438		420	16.45	420	18 26	(1.81)			
B4 - TOU (Peak)	36	0.21				400	25.23	400	25.84	(0 61)		•	
B4 - TOU (Off-peak)	199	1.19	8	701,266		400	17.58	400	18.39	(0.81)	-	-	
Temporary E-2 (58)	3	0.02	85	-			21 38	· · ·	22.64	(1.26)	-	-	
Total Industrial	2,566	15.33	60,665	13,074,740								-	
Bulk						<b>:</b>							
C1(A) Supply at 400 Volts - Lp to 5 kW/	<u>0</u>	0.00	128	1 179			23,49		25.39	(1.90)	<u>-</u>		
C-1C Time of Use (TOU) - Peak	11	0.00		1,170		440	26.46	440	28.51	(2.50)	<u> </u>		
C-1C Time of Use (TOU) - Off Peak	33	0.20	241	135,152		440	16.16	440	20.22	(4.06)			
C2A Supply at 11 kV	1	0.01	9	2,614		120	20.06	420	23.99	(3.93)	-	-	
C-2B Time of Use (TOU) - Pcak	51	0.31	-			420	22.73	420	28.15	(5.42)		-	
C-2B Time of Use (TOU) - Off Peak	149	0.89	57	488,994		420	17.68	420	20.33	(2.65)	-		
C3 R Time of Lee (TOLL) Book	.2	0.01	1	23,980	ļ	400	20.00	400	23.88	(3.88)			
C3-B Time of Use (TOU) - Off-Peak		0.03		83 120			25.27	400	28.67	(3.40)			
Total Single Point Supply	282	1.69	471	735.104		400	17.02		20.22	(2.00)	-		
Agricultural Tube-wells - Tariff D		-						·	-		-		
D-1A (41,42,43,44,46)	0	0.00	2,757	··			22.92	-	22.27	-	-	0.65	
D-1B (45) Peak	10	0.06				200	26.12	200	25.84	-		0.28	
D-1B (45) Off-Peak	39	0.23	951	107,707		200	18.81	200	17.11	-		1.70	
D-2A (47,48,49,52) (NUR)	· <u>0</u>	0.00	9,378	2,239		- 200	17.34	200	10.81			<del>0</del> .53	
(D-2A (17, 40, 49, 52) (SUD) (D-2B (50 51 53 54) Peak (NOR)		0.00	3	2.743		200	77.34		10.81	·	200.00	6 53	
D-2B (50.51.53.54) Off-Peak (NOR)		0.00	3 287	51 674		200	15.52	200	10.44			12.51	
D-28 (50,51,53,54) Peak (SUB)	434	2.59				200	24.96		12 35		200.00	12.61	
D-2B (50,51,53,54) Off-Peak (SUB)	2,505	14.97	. 84,163	15,136,233		200	15.52		10.44		200.00	5,08	
					-		-		•	-	-	-	
Total Agricultural	2,990	17.86	100,540							•	·	•	
Public Lighting G	19	0.11	1,683	-			22.11	<sup>*</sup>	25.11	(3.00)			
Special Contracts - Tariff K (A IK)	/	0.04	125	•			22.65		25.22	(2.57)			
Time of Lise (TO(I) - Peak			•										
Time of Use (TOU) - Off-Peak													
A-3a (66)	289	1.73	41,433				22.23		24.01	(1.78)			
		<u> </u>		-									
Grand Total	16,741	100.00	7,281,004	15,859,715	-	- 1	-						



Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue Propos	as per New ec Tariff	Revenue Notifie	as per GoP ed Tariff			Subsidy	k
		1		20110	1 0.0101	Fixed	Variable	Fixed	Variable	]	Fixed	Variable	TOTAL
	(MkWh)	(%age)	Nos.	(kW)	(%age)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)	<u> </u>	(Rs/kW/M)	(Rs/kWh)	(Rs/kWh)
Residential						<u> </u>						<u>,</u>	1
Up to 50 Units	62	0.37	531,314			-	313		310		-	3	3
For peak load requirement up to 5 kW		-		:_		• .				<u> </u>		•	
101-200 Units	2 602	9.35	1 770 979		·	· · · ·	55 212	·	13,472	<u> </u>	-	12,709	12,709
201-300 Units	2 230	13.32	358 572				18 743		36,233		·	16,957	10,957
301-700Units	2,491	14.88	100,981				62 206		61 284	- <u>-</u>		921	921
Above 700 Units	519	3.10	4,811		· ·		13,588		14,496	(907)			(907)
For peak load requirement exceeding 5 kW		-	· · ·		•		-		-		-	•	
Time of Use (TOU) - Peak	24	0.14	······				628		671	(43)	-	-	(43)
Time of Use (TOU) - Off-Peak		0.57	17,204	<u>-</u>		1 <b>1</b>	1,825	·· · ·	1,938	(112)	-		(112)
Total Residential	0 6 9 5	57.95	1,042	-	<u> </u>	· · · · · · · · · · · · · · · · · ·	13	· ·	15	(1)	•		(1)
Commercial - A2	9,005	57.05	0,460,363		·		213,/10		1/2,408	(1,064)		42,367	41,302
Commercial - A-2A			·					· • • •	···		<u>.</u>	·	<u> </u>
For peak load requirement up to 5 kW	478	2.86	586,556	-			11.628	.	11 896	(268)			(268)
Commercial (<100)					· · · · -	•	-	··· .	-				
Commercial (<20 KW)													
For peak load requirement exceeding 5 kW	·		<u> </u>	·			<u>.</u>		_			·	
Regular A-2B	0	0.00	27	1,620		1	4	·- 1.	5	(1)			(1)
A-2C (TOU) - Peak (A-2)	80	0.58					2,499		2,809	(310)	-		(310)
Temporapy Commercial E-111 (56)	- <u>321</u>	1,92	21,191	2,048,251		901	5,811	901	5,615	(1,004)			(1,004)
Total Commercial	903	5 40	E09 724	2 049 871		902	20 101	902	21 684	(1)			(1)
Industrial	505	5.40	005,724	2,040,011		502	20,101	302	21,004	(1,303)			(1,303)
B1 (400 Volts Upto 40kw) (07)	33	0.20	15,159				806	!	740			66	66
B1 (400 Volts Upto 40kw) (08)	·		18	-			-		•	-	•		•
B1 (b) (Peak)	68	0.41	-	-	-		1,730		1,770	(33)		•	(33)
B1 (b) (Off-Peak)	267	1.59	34,158	3,992,603			4,881	· · ·	5,049	(168)		-	(168)
B2 (400 Volts 41-500 kw) B2-A (10)	0	0.00	1,678	93		0	1	0		(0)	•		(0)
B2 - B TOU (Peak)	199	1.19		5.540.240			5,030		5,152	(122)		· · ·	(122)
B2 - B TOU (Off-peak)	968		9,187	5,546,340		2,440	17,250	2,440	18,030	(7/4)		•	(114)
B3 - TOU (Off-neak)	650	3.88	372	2 834 438		1 190	10 691		11 867	(1 176)			(1 176)
B4 - TOU (Peak)	30	0.21		- 2,00 ., 100			907		929	(22)	-		(22)
B4 - TOU (Off-peak)	199	1.19	8	701,266	i	281	3,499	281	3,661	(161)			(161)
Temporary E-2 (58)	3	0.02	85				68		72	(4)	-	•	(4)
Total Industrial	2,566	15.33	60,665	13,074,740	-	3,911	48,559	3,911	50,974	(2,481)	•	66	(2,415)
Buik			-	-	· .	·	· · · ·				-	-	-
C1(A) Supply at 400 Volts - up to 5 kW	0	0.00	32	66	<u>  </u>		0		0	(0)			(0)
C1(B) Supply at 400 Volts - above 5 kW	0	0.00	128	1.178			10	1	11	(1)			(1)
C-1C Time of Use (TOU) - Peak		0.07		125 152	· · · -		290	50	660	(133)			(27)
C2A Supply at 11 kV		0.01		2 614		1	18		22	(135)			(133)
C-2B Time of Use (TOU) - Feak	51	0.31		2,014			1,169	''	1.448	(279)	-		(279)
C-2B Time of Use (TOU) - Off Peak	149	0.89	57	488,994		205	2,628	205	3,022	(394)			(394)
C3-A Supply above 11 kV	2	0.01	1	23,980		10	32	10	39	(6)	-		(6)
C3-B Time of Use (TCU) - Feak	6	0.03	·				143		162	(19)		7	(19)
C3-B Time of Use (TOU) - Off-Peak	30	0.18	2	83,120	-	33	523	33	000	(77)	·		(77)
Total Single Point Supply	282	1.69	471	735,104		309	5,347	309	6,287	(940)	<u> </u>	i	(940)
Agricultural Tube-wells - Tariff D	·····			<b>.</b>	<u>├</u>					l	<u> </u>		
D-1A (41,42,43,44,40)	10	0.00	2,151		<u> </u> -	. ]	256		252				
D-1B (45) Off-Peak	30	0.23	951	107 707			738	22	671	<u>-</u>		67	67
D-2A (47 48 49 52) (NOR)		0.00	9,378	2,239	·		-0	0	0			0	C
D-2A (47,48,49,52) (SUB)	0	0.00	3	2,743	- 1	1	1		1		1	0	1
D-2B (50,51,53,54) Peak (NOR)	0	0.00			-	-	4		2	-		2	2
D-2B (50,51,53,54) Off-Peak (NOR)	0	0.00	3,287	51,674		10	7	10	5			2	2
D-2B (50,51,53,54) Peak (SUB)	434	2.59		-			10,840	·	5,365		-	5,476	5,476
D-2B (50,51,53,54) Off-Peak (SUB)	2,505	14.97	84,163	15,136,233	<u>├_</u>	3,027	38,893		26,165		3,027	12,/28	15,/55
Total Agricultural	2 990	17.86	100 540		<u>  _  </u>	3 060	50 741	- 32	32 463	<u> </u>	3 028	18,278	21,306
Public Lighting G	2,330	0.11	1 682		<u> </u>	3,000	400		464	(56)	3,020	. 10,210	(56)
Residential Colonies H		0.04	125		<u> </u> -		152		170	(17)			(17)
Special Contracts - Tariff K (AJK)				-					-			-	
Time of Use (TOU) - Peak	•	.	•	-	-					-	-	-	
Time of Use (TOU) - Off-Peak													
A-3a (66)	289	1,73	41,433		i	- · · ·	6,428		6,943	(515)			· <u>(515)</u>
Grand Total	10 744	- 100	7 281 004	15 850 715		8 102	145 447	5 155	291 222	IS SEE	3 0 29	60 710	57 082
	: 10,7411	100	1,201,004	13.033.713		0,100	040,447			1 10 0001	3,020	00,110 (	01,000

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MEPCO Revenue & Subsidy Statement - Proposed F Y, 2020-21 - (Full Year)

#### This Format Relates to Power Supply Business

#### FORM - 28 MEPCO Revenue & Subsidy Statement - Proposed F.Y. 2021-22 - (Full Year)

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Description	Sales	Sales Mix	No. of	Connected Load	Load	Revenue / Propos	as per New ed Tariff	Revenue : Notifie	as per GoP d Tariff	IDTR		Subsidy	
			Consumers	1111	Factor	Fixed	Variable	Fixed	Variable Charge		Fixed Charge	Variable Charges	TOTAL
	(MkWb)	(%age)	Nos	(kW)	(%age)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)		(Rs/kW/M)	(Rs/kWh)	(Rs/kWh)
Residentia!		(1-3-7											
Up to 50 Units	64.35	0 36	563,193		····.		4.62		4.57			0.05	
For peak load requirement up to 5 kW	1 649 53	0.35	3 892 914				18 27		10.18		<u>.</u>	8.09	
101-200 Units	2,831.53	15.05	1,886,671			•••••	18.88	-	12.58	-		6.30	
201-300 Units	2,352.96	13.34	380,086				20.12		14.84	-	<u> </u>	5.28	
301-700Units	2.627.51	14.89	107,040				22.99		22.62	(1.75)	<u> </u>	0.37	
For peak load requirement exceeding 5 kW	044.40	3.08										-	
Time of Use (TOU) - Peak	25.21	0.14	-				24.07	· · · · · · · · · · · · · · · · · · ·	25.87	(1.80)			
Time of Use (TOU) - Off-Peak	100.83	0.57	18,236				17.50		18.67	(1.17)	· · · · ·		
Temporary Total Residential	10 197	57.79	6 854 344			· · ·	23.40		23.92	- (2.32)			
Commercial - A2		-	-			· · ·		-		-	-	<u> </u>	
Commercial - A-2A	513.01	2.91	621,750				22.38	-	22.94	(0.56)			
Commercial (<100)		i	·			450	· · · · · · · · · ·	440	· · ·		10.00	<u> </u>	
For peak load requirement exceeding 5 kW		-	_			450	· -	440	-	-	10.00	<u> </u>	
Regular A-2B	· 0.19	0.00	28	1,636		. 450	20.26	440	24.34	(4.08)	10.00		
A-2C (TOU) - Peak (A-2)	105.15	0.60	-			450	23.52	440	26.69	(3.17)	10.00		
A-20 (TOU) - OII-Peak Temporary Commercial E-111 (56)	6.75	0.04	22,463	2,068,734		450	23.35	440	23.46	(0.11)	- 10,00		
Total Commercial	970	5.50	646,308	2,070,370	·			†			-	-	
Industrial				-	· · · ·					-	-		
B1 (400 Volts Upto 40kw) (07)	35.50	0.20	16,068	·			22.16		20.19		· · ·	1.97	
B1 (400 Volts Opto 40kw) (08)	72.31	0.41					23.43		23.92	(0.49)	<u>-</u>	- 1.57	
B1 (b) (Off-Peak)	282.63	1.60	36,207	4,032,529			16.85		17.48	(0.63)			
B2 (400 Volts 41-500 kw) B2-A (10)	0.04	0.00	1,778	94		450	19.07	440	19.28	(0.21)	10.00	· · ·	ļ
82 - B TOU (Peak)	211.36	5.81	0.738	5 601 803		450	23.22	440	23.83	(0.61)	10.00		
B3 - TOU (Peak)	151.19	0.86	3,730			430	23.77	420	23.91	(0.14)	10.00	-	
B3 - TOU (Off-peak)	688.86	3.90	394	2,852,782		430	15,14	420	16.95	(1.81)	10.00	_ ·	
B4 - TOU (Peak)	38.65	0.22		708 270		410	23.22	400	23 83	(0.61)	10.00	<u> </u>	
Temporary E-2 (58)	3,20	0.02	90			- 410	19,68		20.54	(1.26)	- 10.00	<u>-</u>	
Total Industrial	2,720	15.42	64,304	13,205,487						-	-	-	
Bulk							·				· · · ·	·	
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00	34	57		- 450	21.62	440	23.52	(1.90)	10.00		
C-1C Time of Use (TOU) - Peak	11.72	0.07		1,130		450	24.35	440	26.80	(2.45)	10.00		<u> </u>
C-1C Time of Use (TOU) - Off Peak	34.28	0.19	256	136,504		450	14.88	440	18.94	(4.06)	10.00	· ·	
C2A Supply at 11 kV	0.97	0.01	10	2,640		430	18.47	420	22.40	(3.93)	10.00	··	
C-28 Time of Use (TOU) - Off Peak	156,07	0.88	60	493,884		430	16.27	420	18.92	(3.42)	10.00		
C3-A Supply above 11 kV	1.70	0.01	1	24.220		410	18.41	400	22.29	(3.88)	10.00		
C3-B Time of Use (TOU) - Peak	5.93	0.03				410	23.26	400	26.66	(3.40)	10.00		
Total Single Point Supply	296	1.68	2	742.455		410	15.22	100	18.82	(2.60)	10.00	•	
Agricultural Tube-wells - Tariff D						-		-			-		<u> </u>
D-1A (41,42,43,44,46)	0.08	0.00	2,923	•			21 10		20,45			0.65	
D-1B (45) Peak	10.30	0.05	1 000	109 79 (		210	24.04	200	23.76	<u> </u>	10.00	0.28	
D-2A (47,48,49,52) (NOR)	0.07	0.23	9,940	2,261		210	15.96	200	9.43		10.00	6.53	
D-2A (47,48,49,52) (SUB)	0.63	0.00	3	2,770		210	15.96		9.43	•	210.00	6.53	
D-2B (50,51,53,54) Peak (NOR)	0.11	0.00		-		210	22.98_	200	10.37		10.00	12.61	
D-28 (50,51,53,54) On-Peak (NOR)	454,86	2.58	3,484	52,191		210	22.98	200	10.37		210.00	12.61	
D-2B (50,51,53,54) Cff-Peak (SUB)	2,624.46	14.87	89,213	15,287,595		210	14.29	i	9.21	-	210.00	5.08	
					•		· ·						
I otal Agricultural Rublic Liebling G	3,132	17.75	106,571	15,453,602			20.25		22.25	-	-	-	
Residential Colonies H	7.07	0.11	1,784				20.35		23.35	(3.00)			
Special Contracts - Tariff K (AJK)													
Time of Use (TOU) - Peak						112							
A-3a (66)	302 14	1 71	43 921				20.47		22.25	(1 78)			
······································													
Grand Total	17,644	100.00	7,717,864	31,471,914	-	·	•						

Description	Sales	Sales Mix	No. of	Connected Lond	Load	Revenue Propos	as per New sed Tariff	Revenue Notifie	as per GoP od Tariff	IDTR		Subsidy	
			Consumers		Factor	Fixed	Variable	Fixed	Variable		Fixed	Variable	TOTAL
	(MkWh)	(%age)	Nos.	(kW)	(%age)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)		(Rs/kW/M)	(Rs/kWh)	(Rs/kWh)
Residential					1		1	And the second		1	1	1.1.1.1.1.1	1.10.111
Up to 50 Units	64	0.36	563,193				297		294	-	-	3	3
For peak load requirement up to 5 kW						: _	·		·	· · ·		•	<u> </u>
	1,650	9.35	3,852 914				30,139		16,794	· ·	·	13,345	13 345
201 200 Units	2,832		1,826,671				53,468		35,629	<u>.</u>	<u> </u>	17,839	17,839
301-700Lpite	2,303	12.34	107.040	·		· · ·	47,339		34,916	·	· .	12,424	12,424
Above 700 Units	544	3 (16	5 100				13 124	···· · · ·	59,442		·	972	972
For peak load requirement exceeding 5 kW								···· [ ·	14,007	(953)			(900)
Time of Use (TOU) - Peak	25	0.14	•	······			607	····· .	652	(45)			(45)
Time of Use (TOU) - Off-Peak	101	0.57	18,236	•	•		1,764	·	1,882	(118)	· ·		(118)
Temporary	1	0.00	1,104	-	•	•	12	-	13	(1)	-	-	(1)
Total Residential	10,197	57.79	6,854,344	-			207,175	-	163,710	(1,117)	-	44,582	43,465
Commercial - A2		· · ·	<u> </u>			·	·			•	•	-	
Commercial - A-2A	540												
Commercial (<100)	513	2.91	621,750	· · ·			11,481	··· *	11,769	(287)			(287)
Commercial (<20 KW)	(		··- ····						·	·	·	<u>.</u>	<u>·</u>
For peak load requirement exceeding 5 kW	-					-					i .		
Regular A-28	0	0.00	28	1.536		1	4		5	(1)	. 0		
A-2C (TOU) - Peak (A-2)	105	0.60			·		2,474	• •	2,807	(333)		•	(333)
A-2C (TOU) - Off-Peak	345	1.95	22,463	2,068,734	•	931	5,752	910	6,831	(1,079)	21		(1,059)
Temporary Commercial E-111 (56)	7	0.04	2,067	-			158		158	(1)	-	•	(1)
Total Commercial	976	5.50	646,308	2,070,370	-	932	19,868	911	21,570	(1,702)	21	-	(1,681)
Industrial	· · · · ·		-					. • *			•	-	
B1 (400 Volts Upto 40kw) (07)	36	0.20	16,068				787	*	717	<u> </u>		. 70	70
B1 (400 Volts Upto 40kw) (08)			20										
		1.00		4 000 500		·	1,594	· •	1,730	(35)			(35)
B2 (400 ) (off-Peak)	203	1.00	1 779	4,032,329			4,763		4,941	(178)			(176)
B2 - B TOU (Peak)	211	1 20					4 909		5.038	(129)			(129)
B2 - B TOU (Off-peak)	1.026	5.81	9,738	5.601.303		2.521	16.838	2.465	17.656	(821)	56		(765)
B3 - TOU (Peak)	151	0.86				-	3,593		3,614	(21)		•	(21
B3 - TOU (Off-peak)	689	3.90	394	2,862,782	-	1,231	10,432	1,202	11,679	(1,247)	29	-	(1,218)
B4 - TOU (Peak)	39	0.22	-				898		921	(24)	-	•	(24)
B4 - TOU (Off-peak)	211	1.19	9	708,273	· · .	290	3,409	283	3,580	(171)	7	· · ·	(164)
Temporary E-2 (58)	3	0.02	90		-	-	63		67	(4)	·····	•	(4)
Total Industrial	2,720	15.42	64,304	13,205,487	·	4,042	47,386	3,951	49,945	(2,629)	92	70	(2,468)
Bulk							·		· _ · _		· ·		
CT(A) Supply at 400 Volts - up to 5 kW	1	0.00	136	1 100				· · · · · · ·	11			<u> </u>	(1)
C-1C Time of Lise (TOLI) - Peak	12	0.00		1,120		ur ur the	285	··· ·· · · · ·	314	(29)			(29)
C-1C Time of Use (TOU) - Off Peak	34	0.19	256	136,504	-	61	510	60	649	(139)	1	•	(138)
C2A Supply at 11 kV	1	0.01	10	2,640	-	1	18	1	22	(4)	0		(4)
C-2B Time of Use (TOU) - Peak	54	0.31	•	·	-		1,130		1,422	(293)			(293)
C-2B Time of Use (TOU) - Off Peak	156	0.88	60	493,884		212	2,540	207	2,953	(414)	5		(409)
C3-A Supply above 11 kV	2	6.01	1	24,220	· · <u>· ·</u> · · ·	10		10	38		0		(6)
C3-B Time of Use (TOU) - Peak	6	0.03	· · ·			24	138	····· •	158	(20)	<u> </u>		(20)
C3-B Time of Use (TOU) - Off-Peak	31	0.18	2	53,951		34	505	34	080	(81)		· · · ·	(80)
Total Single Point Suppry	296	1.60	499	/42,400	•	320	5,168	312	6,155	(987)	/	· · ·	(9/9)
Agricultural Tube-walls - Tantt D	· · · · · · · ·	0.00	2 923										
D-16 (41,42,43,44,40)	10	0.06	2,525				248		245		· · ·	3	
D-1B (45) Off-Peak	41	0.23	1.008	108,784		23	713	22	643		1	70	.71
D-2A (47,43,49,52) (NOR)	0	0.00	9,940	2,261	-	0	1	0	1		0	0	0
D-2A (47,48,49,52) (SUB)	1	0.00	- 3	2,770	-	. 1	10	I	6	•	1	4	5
D-2B (50,51,53,54) Peak (NOR)	0	0.00	-			÷ .	2		1	·		1	1
D-2B (50,51,53,54) Off-Peak (NOR)	0	0.00	3,484	52,191		11_	5	10	3		1	2	2
D-2B (50,51,53,54) Peak (SUB)	455	2.58			t. I		10,453		4,717			5,736	5,736
D-2B (50,51,53,54) Off-Peak (SUB)	2,624	14.87	89,213	15,287,595		3,210	37,504		24,171		3,210	13,332	16,543
Total Agricultural	2 122	47.75	105 574	15 467 602		7 246	48 039	· 17	29 790		3 247	19 1/0	22 361
Public Lichting G	3,132	0.11	1 72.1	10,403,002		3,245	40,338		23,109	(5.9)	3,213	13,143	(58)
Residential Colonies H	7	0.11	133	<u>.</u>			147		166	(18)			(18)
Special Contracts - Tariff K (AJK)							<u>`</u>				-	•	<u>, e</u>
Time of Use (TOU) - Peak				· · · ·			-	· · · ·			-		
Time of Use (TOU) - Off-Peak		•		<u> </u>	-	-	•		· ·	•	-		6
A-3a (66)	302	1.71	43.921				6,183		6,721	(538)	-	-	(538)
					-								
Grand Total	17.644	100	7.717.864	31.471.914		8.539	335.257	5.207 1	278.505	(7.049)	3.332	63.801	60.084

MEPCO Revenue & Subsidy State

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# FORM - 28 MEPCO Revenue & Subsidy Statement - Proposed F.Y. 2022-23 - (Full Year)

Description	Sales	Sales Mix	No. of	Connected Load	Load	Revenue a Propos	as per New ed Tariff	Revenue a Notifie	as per GoP d Tariff	IDTR		Subsidy	· ·
			Consumers A sum	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Fixed	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	TOTAL
	(MkWh)	(%age)	Nos.	(KW)	('Kage)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)		(Rs/kW/M)	(Rs/kWh)	(Rs/kWh)
Residential													
Up to 50 Units	65.64	0.36	601,546				5.11		5.06	·		0.05	
Por peak load requirement up to 5 kW	1.682.52	9.33	4.158.021			<mark>.</mark> .	20.23		12.14			8.09	
101-200 Units	2,893.82	16.05	2,015,153				20.90		14.60		· ·	6.30	
201-300 Units	2,411.78	13.38	405,970				22.27	. • .	16.99			5.28	
Above 700 Linits	2,693.20	3.08	5.447				26.70		28.45	(1.75)		- 0.57	
For peak load requirement exceeding 5 kW		•	-								· · ·	-	
Time of Use (TOU) - Peak	25.96	0.14					26.64		28,44	(1.80)			
Time of Use (TOU) - Off-Peak	0.52	0.00	19,478				25,90		20.54	(2.52)	<u>-</u>		
Total Residential	10,433	57.87	7,321,123								-	-	
Commercial - A2	-					. *		•		-	·		
Commercial - A-2A	523.27	2.90	664,091			450	24.77	440	25.33	(0.56)	10.00		
Commercial (<20 KW)													
For peak load requirement exceeding 5 kW						450		440		-	10.00	<u>-</u>	
A-2C (TOU) - Pcak (A-2)	107.26	0.00	30	1,653		450	26.04	440	29.21	(3.17)	10.00		
A-2C (TOU) - Off-Peak	351.76	1.95	23,993	2,089,421		450	18.46	440	21.59	(3.13)	10.00	· ·	
Temporary Commercial E-111 (56)	6.89	0.04	2,203	-			25.85		25.96	(0.11)		-	
Total Commercial	989	5.49	690,322	2,091,073						•	·	· · ·	· · · · ·
B1 (400 Volts Upto 40kw) (07)	36.21	0.20	17,162	· · · · · ·	<u> </u>	· · · ·	24.53	:	22.56		<u> </u>	1.97	
B1 (400 Volts Upto 40kw) (08)		-	21				24.53		22.56	•		1.97	
B1 (b) (Peak)	73.76	0.41	-	4 072 854			25.94	· · · ·	26.43	(0.49)		-	
B2 (400 Volts 41-500 kw) B2-A (10)	0.04	0.00	1,899	4,072,834		450	21.11	440	21.32	(0.83)	10.00		
B2 - B TOU (Peak)	215.59	1.20	-	-		450	25.71	440	26.32	(0.61)	10.00	•	
B2 - B TOU (Off-peak)	1,046.39	5.80	10,401	5,657,821		450	18.17	440	18.97	(0.80)	10.00	-	
B3 - TOU (Off-peak)	702.64	3.90	421	2.891.410		430	16.76	420	18.57	(0.14)	10.00		
B4 - TOU (Peak)	39.93	0.22		•		410	25.71	400	26.32	(0.61)	10.00	•	
B4 - TOU (Off-peak)	214.34	1.19	10	715,361		410	17.91	400	18.72	(0.81)	10.00		
Total Industrial	2,775	15.39	68.683	13.337.542		· · ·	21.79		23.05	(1.26)			
Bulk						-	-		-		-	•	
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00	36	67			23.93		25.83	(1.90)	<u>-</u>		
C-1C Time of Use (TOU) - Peak	.11 95	0.00	145	1,202		450	23.06	440	25.14	(2.08)	10.00		
C-1C Time of Use (TOU) - Off Peak	34.97	0.19	273	137,869		450	16.47	440	20.53	(4.06)	10.00	-	
C2A Supply at 11 kV	0.99	0.01	11	2,667		430	20.44	420	24.37	(3.93)	10.00		
C-2B Time of Use (TOU) - Off Peak	159.19	0.31	64	498 823		430	23.17	420	28.59	(2.65)	10.00	<u></u>	
C3-A Supply above 11 kV	1.74	0.01	1	24,462		410	20.38	400	24.26	(3.88)	10.00	-	
C3-8 Time of Use (TOU) - Peak	6.05	0.03		6		410	25.75	400	29.15	(3.40)	10.00		
Total Single Point Supply	302	1.68	532	749.886		410	17.95	400	20.55	(2.60)	10.00		
Agricultural Tube-wells - Tariff D		-				-	· ·		-	-	-	-	
D-1A (41,42,43,44,46)	10.51		3,122				23.36		22.71	-		0.65	
D-1B (45) Off-Peak	42.02	0.06	1 077	1.0 872		210	26.61	200 200	26.33		10.00	0.28	
D-2A (47,48,49,52) (NOR)	0.08	0.00	10.617	2,284		210	17.67	200	11.14		10.00	6.53	
D-2A (47,48,49,52) (SUB)	0.55	0.00	3	2.798		210	17.67		11.14		210.00	6.53	· · · · · · · · · · · · · · · · · · ·
D-2B (50,51,53,54) Peak (NOR)	0.11	0.00	3 721	52 713		210	25.44	200	12.83		10.00	12.61	
D-2B (50,51,53,54) Peak (SUB)	463,96	2.57				210	25.44		12.83		210.00	12.61	
D-2B (50,51,53,54) Off-Peak (SUB)	2,676.93	14.85	95,288	15,440,471		210	15.82		10.74	-	210.00	5.08	
Total Agricultural	3,195	17.72	113.828	15,608,138								:	
Public Lighting G	19.63	0,11	1,905				22.53		25.53	(3.00)	-		
Residential Colonies H	7.11	0.04	142				23.08		25.65	(2.57)	•		
Time of Use (TOU) - Peak										<u> </u>	<u>-</u>	<u>-</u>	
Time of Use (TOU) - Off-Peak					-	· · · ·							
A-3a (66)	308.20	1.71	46,916				22.65		24.43	(1.78)	·		
Grand Total	18,028	100.00	8,243,451	31,786,639									



Description	Sales	Sales Mix	No. of	Connected Load	Load	Revenue Propos	as per New sed Tarifi	Revenue Notifie	as per GoP et Tariff	IDTR		Subsidy	
			Gordanners		FACIOS	Fixed	Variable	Fixed	Variable		Fixed	Variable	TOTAL
	(MkWh)	(%age)	Nos.	(kW)	(%age)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)		(Rs/kW/M)	(Rs/kWh)	(Rs/kWh
Residential													
Up to 50 Units	66	0.36	501,546	<b>_</b>	<u> </u>		335	· · · · ·	332	· ·	· · · ·	3	3
01-100 Lipits	1 693	0.25	4 159 001	·	·		1	*		· · ·	·		
101-200 Units	2 804	16.05	2 015 153			· · ·-	34,032		20,421			13,612	13,612
201-300 Units	2,412	13.38	405,970				53 710		42,230		<u> </u>	12 734	12 734
301-700Units	2,693	14.94	114,329		1 .	•	68,547	· · ·	67,551			996	996
Above 700 Units	555	3.08	5,447			•	14,830		15,802	(972)	· ·	•	(972
For peak load requirement exceeding 5 kW							· · · · ·	· · ·	-		-	•	-
Time of Use (TOU) - Feak	26	0.14			;		692		738	(47)	·····	·	(47
Tamperrapi	104	0.58	19,478	·	<u> </u>	:	2,012		2,133	(122)	· · ·	<b>·</b>	(122
Total Residential	10 433	57.97	7 221 4 22	·			224 650		15				
Commercial - 42	10,433	51.01	7,521,725				234,659		190,274	(1,141)		43,311	44,435
Commercial - A-2A							· ••• •	· ·	· · · · ·	·	· · ·	·	
For peak load requirement up to 5 kW	523	2.90	664,091		-	-	12,963		13.256	(293)		-	(293
Commercial (<100)			······	•					-		·		
Commercial (<20 KW)					1								
For peak load requirement exceeding 5 kW	· · · · · · · · · · · · · · ·			·		_ · .		L • .	. <u></u>		· · ·	· · ·	· ·
A 2C (TOLI) - Beak (A-2)	C 107	0.00		1,653	<u> </u>	1	4	· . <u>1</u> .			0	·	(1
A-20 (TOU) - Pfeak (A-2)	107	1 95	22 602	2 080 21		0/0	2,193 6 405	010	3,133	(340)		i	1 (340
Temporary Commercial E-111 (56)	7	0.04	2 208	2,000,421			178	515	179	(1)		···	(1,000
Total Commercial	989	5.49	690,322	2.091.073		941	22.433	920	24.168	(1.736)	21		(1.715
Industrial	•					•							
B1 (400 Volts Upto 40kw) (07)	36	0.20	17,162		· ·		388		817	-	-	71	71
B1 (400 Volts Upto 40kw) (C8)			21	•	-		-			-		•	-
B1 (b) (Peak)	74	0.41					1,913		1,949	(36)	i	· · ·	(36
B1 (b) (Off-Peak)	288	1.60	38,673	4,072.854			5,377		5,559	(182)			(182
B2 (400 Volts 41-500 kW) B2-A (10) B2 - B TO(1 (Paak)	216	1 20	1,099			· · · · · · ·	5.542	·· ·	5.674	(132)			(132
B2 - B TOU (Off-neak)	1 046	5.80	10 401	5 657 821		2 546	19 011	2 489	19 848	(837)	57		(781
B3 - TOU (Peak)	154	0.85					4,057		4,078	(22)			(22
B3 - TOU (Off-peak)	703	3.90	421	2,891,410	•	1,243	11,778	1,214	13,050	(1,272)	29	-	(1,243
B4 - TOU (Peak)	40_	0.22			· · ·		1,026	•	1.051	(24)		-	(24
B4 - TOU (Off-peak)	214	1.19	10	715,361		293	3,839	. 286	4,013	(174)	7		(166
Temporary E-2 (58)	3	0.02	96		·	-	72		76	(4)		-	(4
Total Industrial	2,775	15.33	68,583	13,337,542	· · ·	4,083	53,506	3,990	56,116	(2,682)	93		(2,516
Bulk						·	····	· · · · · · ·	·	· ·			
C1(R) Supply at 400 Volts - dp to 5 kW		0.00	145	1 202	<u>-</u>		12	···· ···	13	(1)			(1
C-1C Time of Use (TOU) - Peak	12	0.00	-				322	<sup>5</sup> -	351	(29)			(29
C-1C Time of Use (TOU) - Off Peak	35	0.19	273	137,369		62	576	61	718	(142)	1	•	(141
C2A Supply at 11 kV	1	0.01	11	2,667	•	1	20		24	(4)	0	-	(4
C-2B Time of Use (TOU) - Peak	55	0.31					1,276		1,574	(298)		,	(298
C-2B Time of Use (TOU) - Cif Peak	159	0,38		498,823		214	2,868	210	3,290	(422)	5		(417
C3-A Supply above 11 kV	2	0.01	1	24,462		10	35	21	42	(/)			(1
C3 B Time of Use (TOU) - Peak		0.03		8,1 70,1		- 35	571		653	(83)		·	(82
Total Single Point Supply	302	1 68	532	749,886		323	5.835	316	6.842	(1.007)	7		(999
Ancicultural Tube-wells - Tariff D				-									
D-1A (41.42.43.44.46)			3,122			· · ·	· . · ·	····· ·	•	•			
D-1B (45) Feak	11	0.06		· · ·		["	280		277	· ·		3	3
D-1B (45) Off-Peak	42	0.23	1,077	109.872		23	805	22	734		1	71	73
D-2A (47,48,49,52) (NOR)	0	0.00	10,617	2,284		0	1	0	1		0		1
D-2A (47,48,49,52) (SUB)	····	0.00 !	3	2,798		1			7	:	i	4	
D-28 (50,51,53,54) Peak (NOR)	<u>0</u>		2 701					°, ,			· · · · · · · · · · · · · · · · · · ·		<u>`</u>
D-2B (50 51 53 54) Peak (SUR)	464	2 57	<u> </u>	52,713		····· -! =	11 803	·• · · · · ·	5 952			5,850	5.850
D-2B (50,51,53,54) Off-Peak (SUB)	2.677	14.85	95.288	15,440,471		3,242	42,344	_	28.745		3,242	13,599	16,841
		-	-					· · · ·	•	•		-	-
Total Agricultural	3,195	17.72	113,828	15,608,138	-	3,278	55,252	33	35,721	-	3,245	19,532	22,776
Public Lighting G	20	0.11	1,905		· ·		442		501	(59)		-	(59
Residential Colonies H	7	0.04	142	·	· · · · · ·	· · · · · · · · · ·	164		182	(18)			(18
Special Contracts - Tariff K (AJK)			·				· ·		· · · · · · · · · · · · · · · · · · ·				<u>-</u> -
Time of Use (TOU) - Peak	·		•	<b>_</b>				· · • · ·	·· •		•		
A-3a (66)	30.3	171	46 916			-	6 982	<u> </u>	7 530	(549)			(540
	505					-							
				24 200 000		0.204	170 170	5 250	221 201	(7 101)	3 264	CE 170	C4 254



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FORM - 28			1.0181.4.4.1	with the character									0
MEPCO			5 (BAL 1975)	() (1997년 1997년 br>1997년 1997년				This Forma	t Relates	to Power Si	ipply Busi	ness 🦜	
Revenue & Subsidy Statement - Propo	osed												
F.Y. 2023-24 - (Full Year)	r · · · ·	r				Bevenue	as oar New	Revenue	as per GoP		[		
·	0-1	G-1 11	No. of	Concentral Lond	Load	Propos	ed Tariff	Notific	ed Tariff	פדחו		Subsidy	
Description	Sales	Sales Mix	Consumers	Connected Load	Factor	Fixed	Variable	Fixed	Variable	10 IK	Fixed	Variable	TOTAL
				3136-	1.4.8	Charge	Charge	Charge	Charge		Charge	Charges	TOTAL
	(MKWh)	(%age)	Nos.	(KW)	(%age)	(₽s/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)		(Rs/kW/M)	(Rs/kWh)	(Rs/kWh)
Residential	66.95	0.36	637,639			·	5.29		5.24	-		0.05	
For peak load requirement up to 5 kW												-	
01-100 Units	1,716.17	9.32	4,407,502				20.92		12.83	•		6,30	
201-300 Units	2,460.02	15.36	430,328				23.04		17.76		-	5.28	
301-700Units	2,760.53	14.99	121,189				26.33		25.96	(1 75)		0.37	<b> </b>
For peak load requirement exceeding 5 kW	560.44							···· •			· ·	-	
Time of Use (TOU) - Peak	26.74	0.15	-			<u>-</u>	27.56		29.36	(1.80)	<u> </u>	<u> </u>	
Time of Use (100) - Ott-Peak	0.53	0.53	1.250	·			20.04		29.31	(2.52)			
Total Residential	10,656	57.88	7,760,391	-	-					-	· · ·		
Commercial - A2	533 74	2 90	703 936				25.62	-	26.18	(0.56)		<u>-</u>	
Commercial (<100)						460		440			20.00	· ·	
Commercial (<20 KW)						460	-	440		_	20.00		
Regular A-28	0.20	0.00	32	1,669		460	23,19	440	27.27	(4.08)	20.00	-	
A-2C (TOU) - Peak (A-2)	109.44	0.59		· .		460	26.94	440	30:11	(3.17)	20.00		
A-2C (TOU) - Off-Peak Temporapy Commercial E-111 (56)	358.76	1.95	25,433	2,110,315			26.74		22.23	(3.13)	20.00		
Total Commercial	1,009	5.48	731,741	2,111,984							-	-	
Industrial		· · ·	-	·				· .				1 97	
B1 (400 Volts Upto 40kw) (07) B1 (400 Volts Upto 40kw) (08)	30.93		18,192			· · ·	25.37		23.40			1.97	
B1 (b) (Peak)	75.23	0.41					26.83		27.32	(0.49)			
B1 (b) (Off-Peak) B2 (400 Volts 41-500 kw) B2-A (10)	294.05	1.60	40,993	4,113,583		460	21.83	440	22.04	(0.63)	20.00		
B2 - B TOU (Peak)	220.98	1.20				460	26.59	4.10	27.20	(0.61)	20.00	· · ·	
B2 - B TOU (Off-peak)	1,072.54	5.83	11,025	5,714,400		460	18.79	440	<u></u>	(0.80)	20.00		
B3 - TOU (Peak) B3 - TOU (Off-peak)	716.69	3.89	446	2,920,324		440	17.34	420	19.15	(1.81)	20.00	-	
B4 - TOU (Peak)	41.26	0.22				420	26.59	400	27.20	(0.61)	20.00		
E4 - 100 (011-peak) Temporary E-2 (58)	3.41	0.02	.102	722,515		420	22.53		23.79	(1.26)	20.00	<u>-</u> -	
Total Industrial	2,837	15.41	72,804	13,470,918						•		· · ·	
Bulk C1(A) Supply at 400 Volts - up to 5 kW	0.01		- 38	68			24.75	<u>-</u>	26.65	(1.90)			
C1(B) Supply at 400 Volts - above 5 kW	0.51	0.00	154	1,214		460	23.85	440	25.93	(2.08)	20.00	-	
C-1C Time of Use (TCU) - Peak	12.19	0.07		- 139.247		460	27.88	440	30.33	(2.45)	20.00	<u> </u>	
C2A Supply at 11 kV	1.01	0.19	12	2,693	·	400	21.15	420	25.08	(3.93)	20.00		<u>+</u> -
C-28 Time of Use (TCU) - Peak	56.17	0.31		-	·	440	23.96	420	29.38	(5.42)	20.00	· ·	· · · ·
C3-A Supply above 11 kV	1.77	0.88		24 707		440	21.08	420	21.28	(2.65)	20.00		
C3-B Time of Use (TOU) - Peak	6.17	0.03		-		420	26.63	400	30.03	(3.40)	20.00		
C3-B Time of Use (TOU) - Off-Peak	32.43	0.18	2	85,639	<u> </u>	420	18.57	400	21.17	(2.60)	20.00		
Agricultural Tube-wells - Tariff D				-		-			· .				
D-1A (41,42,43,44,46)	10.77		3,309				24.16		23.51	<u>`</u>	-	0.65	
D-1B (45) Off-Peak	43.07	0.06	1,142	110,971		220	19.82	200	18.12		20.00	1.70	
D-2A (47,48,49,52) (NOR)	0.08	0.00	11,254	2,307		220	13.28	200	11.75	-	20.00	6.53	
D-2A (47,48,49,52) (SUB) D-2B (50,51,53,54) Peak (NOR)	0.65	0.00	3	2,826		220	18.28	200	11.75		220.00	6.53	·
D-28 (50,51,53,54) Off-Peak (NOR)	0.34	0.00	3,944	53,240		220	16.36	200	11.28		20.00	5.08	
D-2B (50,51,53,54) Peak (SUB)	2 730 49	2.57	101.005	15 504 876		220	26.31		13.70	-	220.00	12.61	
				.0,034,010	-		10.00		11.20		-		
Total Agricultural	3,259	17.70	120,657	15,764,219					00.00			· ·	
Residential Colonies H	7.32	0.11	2,019				23.30		26.30	(3.00) (2.57)			$\vdash$
Special Contracts - Tariff K (AJK)			· · ·								-		
Time of Use (TOU) - Peak	]		<u>-</u> -										
A-3a (66)	314.40	1.71	49,731		<u> </u>		23.43	· · · · ·	25.21	(1.78)			
Grand Total	19 /11	100.00	8738050	32 104 500				ļ		·			
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Revenue & Subsidy Statement - Proposed F.Y. 2023-24 - (Full Year)

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue a Propos	as per New ed Tariff	Revenue : Notifie	as per GoP ed Tariff	IDTR		Subsidy	
						Charge	Charge	Charge	Charge		Charge	Variable Charges	TOTAL
Residential	(MkVVh)	(%age)	Nos	(KVV)	(%age)	(Rs/\W/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)		(Rs/kW/M)	(Rs/kWh)	(Rs/kWh)
Up to 50 Units	67	0.36	637,639				354	•••••	351			3	3
For peak load requirement up to 5 kW				· · · ·				· · · · ·			•	· .	
101-200 Units	2 952	9.32	2 136 062		·	· · · ·	35,907 63,818		22.024	·	<u>.</u>	13,884	13,584
201-300 Units	2.460	13.36	430,323				56 637		43.678		<u> </u>	12 989	12 989
301-700Units	2,761	14,99	121,189		· · · ·		72,674	· . • ·	71,652	· ·	-	1,021	1,021
Above 700 Units	. 566	3.08	5,774			· · _	15.646		16,637	(991)			(991)
Time of Use (TOU) - Peak	27	0.15					737	·	785	(42)			
Time of Use (TOU) - Off-Peak	107	0.58	20.647	-			2,143	•••••	2,268	(125)			(125)
Temporary	1	0.00	1,250	·			14		16	(1)	•	-	(1)
Lotal Residential	10,655	57.38	7,750,391		<u> </u>	-	247.957		202,630	(1,166)		46,493	45,327
Commercial - A-2A	··· ··	·							· · · · · · · · · · · · · · · · · · ·				
For peak load requirement up to 5 kW	534	2.90	703 936		.	· · ·	13,677		13,975	(299)	- `	-	(299)
Commercial (<100)										· ·			· .
For peak load requirement exceeding 5 kW			_	· ·		_	_		_				
Regular A-2B	0	0.00		1,669		1	5				- 0		(1)
A-2C (TOU) - Peak (A-2)	109	0.59			·		2,948		3,295	(347)		-	(347)
A-2C (TOU) - Off-Peak	359	1.95	25,433	2,110,315	:	971	6,851	929	7,974	(1,123)	42		(1,031)
Total Commercial	1 009	5.48	731 741	2 111 984		972	23 668	929	75 138	(1)	- 12		(1)
Industrial				2,111,304			- 23,000		23,430	(1,770)			11,7 40)
B1 (400 Volts Upto 40kw) (07)	37	0.20	15,192	•	•	-	937		864	•	-	73	73
B1 (400 Volls Upto 40kw) (08)				· · · ·	· ·	<u>.</u>			· · · · · · · · · · · · · · · · · · ·		-	•	
B1 (b) (Deak)	75	1.60	40 003	4 113 593			2,018		2,055	(37)			(37)
B2 (400 Volts 41-500 kw) B2-A (10)	0	0.00	2,013	96		· · · · · · · · · · · · · · · · · · ·	1		5,059	(0)			(0)
B2 - B TOU (Peak)	221	1.20			· ·		5,876	· · ·	6,011	(135)	-	-	(135)
B2 - B TOU (Off-peak)	1,073	5.83	11,025	5,714,400		2.629	20,155	2,514	21,013	(858)	114		(744)
B3 - TOU (Peak)	<u>15/</u> 717	3.89		2 920 324		1 285	4,280	1 227	4,302	(22)	- 53		(22)
B4 - TOU (Peak)	41	0.22	•	2.520.524	•	- 1,200	1,097	1.621	1,122	(25)			(25)
B4 - TOU (Off-peak)	218	1.18	11	722,515		303	4,040	289	4,217	(177)	14		(162)
Temporary E-2 (58)	3	0.02	102	42,470,040			77	-	81	(4)	-	-	(4)
Rolk	2,837	15.41	72,604	13,470,918		4,217	56,582	4,030	59,250	(2,740)	187	- 13	(2,480)
C1(A) Supply at 400 Volts - up to 5 kW	0	0.00	38	68			0		0	(0)			(0)
C1(B) Supply at 400 Volts - above 5 kW	1	0.00	154	1.214		1	12	1.	13	(1)	0	· .	(1)
C-1C Time of Use (TOU) - Peak	12	0.07			·		340		370	(30)			(30)
C2A Supply at 11 kV	35	0.19	289	2 693			21	01	25	(145)	3		(142)
C-2B Time of Use (TOU) - Peak	56	0.31					1,346		1,650	(304)	-	-	(304)
C-28 Time of Use (TOU) - Off Peak	162	0.58	68	503,811		222	3.026	212	3,456	(430)	10		(420)
C3-A Supply above 11 kV	2	0.01	1	24,707		10	37	10	44	(7)	0		(5)
C3-B Time of Use (TOU) - Off-Peak	32	0.03	2	85,639		36	602	34	686	(84)	2		(83)
Total Single Point Supply	308	1.67	564	757,378	<u> </u>	334	6,157	319	7,183	(1,027)	15	-	(1,012)
Agricultural Tube-wells - Tariff D									-				
D-1A (41,42,43,44,46)		0.05	3,309						- 202	<u>-</u> -		3	
D-1B (45) Off-Peak	43	0.23	1.142	110,971		24	854	22	731		2	73	75
D-2A (47,48,49.52) (NOR)	0	0.00	11,254	2,307		1	1	C	1	· · ·	0	1	1
D-2A (47,48,49.52) (SUB)	<u>1</u>	0.00	3	. 2,826		1	12	· · · .	8		1	4	5
D-2B (50,51,53,54) Peak (NOR)	. 0	0.00	3 944	53 240		12		11	2				
D-2B (50,51,53,54) Peak (SUB)	473	2.57					12,452		6,485			5,968	5,968
D-2B (50,51,53,54) Off-Peak (SUB)	2,730	14.93	101,005	15,594,876		3,431	44.674	-	30,803	-	3,431	13,871	17,302
Trail Arctiviturel	2 250	47.70		45-04-240			-	<u> </u>	- 20 275	<u> </u>	-		32 257
Public Lighting G	3,259	0.11	2 019	15,164,219	· · ·	3,408	30.298	- 33	529	- (60)	3,435	10,923	(60)
Residential Colonies H	7	0.04	151	·			175		194	(19)			(19)
Special Contracts - Tariff K (AJK)					· · · ·				-				
Time of Use (TOU) - Peak						···· · ,	· · · · · · · · · · · · · · · · · · ·	um Con	·····				
A-3a (66)	314	171	49 731				7.367		7.926	(560)			(550
······································								···· ···					
Grand Total	18,411	100	8,738,058	32,104,500		8,991	400,672	5,311	341,526	(7,342)	3,679	66,489	62,826



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Revenue & Subsidy Statement - Proposed

Paratista	Solar	Sales Miv	No. of	Connected Load	Load	Revenue : Propos	as per New ed Tariff	Revenue a Notifie	us per GoP d Tariff	IDTR		Subsidy	
Description	Salus	Sales Mix	Consumers	Connected Load	Factor	Fixed	Variable	Fixed	Variable		Fixed Charge	Variable Charges	TOTAL
	284627765	(96-2012)	- PERF	(650)	1º ane	(RefeV/IA)	(Rs/kWb)	(Rs/kW/M)	(Rs/kWh)		(Rs/kW/M)	(Rs/kWh)	(Rs/kWh)
Desidential	[18(6.2.8.17]	(10840)			11003117								
Up to 50 Units	68.29	0.36	675,897				5.67	· .	5.52	<u> </u>	· ·	0.05	
For peak load requirement up to 5 kW						-		· · .		ļ			<u> </u>
01-100 Units	1.753.93	9.33	4,671,952			· ·	22.43		16.54			6.30	
101-200 Units	2 514 14	13.37	456 148				24.70		19.42			5.28	
301-700Units	2,824.02	15.02	128,460		·· · •		28.23		27.86	-	· · ·	0.37	
Above 70C Units	579.47	3.08	6,120				29.62	• .	31.37	(1.75)	:		·
For peak load requirement exceeding 5 kW	1	· · · · ·				<b>.</b>	20.66			(1.80)	····		+
Time of Use (TOU) - Peak	100.65	0.15	21.885				21.48		22.65	(1.17)			
Temporary	0.54	0.00	1,325			-	28.72		31.24	(2.52)		-	
Total Residential	10,891	57.93	8,226,014							-	· -	· · ·	ļ
Commercial - A2		·	· · · · ·			· · · ·				-	<u> </u>		
Commercial - A-2A	544.41	2.90	746,172		·	440	27.48	- 440	28.04	(0.56)	20.00		
Commercial (<100)			·			1		1				<b>—</b> ——	1
For peak load requirement exceeding 5 kW			-			460	· · · · ·	440	·		20.00	·	l
Regular A-25	0.20	0.00	34	1,686		460	24.87	440	23.95	(4.08)	20.00		
A-2C (TOU) - Peak (A-2)	111.63	0.59	26.050	2 131 418		460	20.88	440	23.61	(3,13)	20.00	<u>-</u>	+
A-2C (100) - Olf-Peak Temporary Commercial E-111 (56)	7.16	0.04	2,450	2.131.410			28.67		26.78	(0.11)	-	-	
Total Commercial	1,029	5.47	775,645	2,133,104						· · ·		-	
Industrial		<u>.</u>	·•	·						· · ·			
B1 (400 Volts Upto 40kw) (07)	37.67	0.20	19,284				27.21	···· • •	25.24			1.97	
B1 (400 Volts Upto 40kw) (08)	75 74	0.41	23	·			28.77		29.26	(0.49)			+
B1 (b) (Off-Peak)	299.92	1.60	43,453	4,154,719			20.69		21.32	(0.63)	•	-	
B2 (400 Volts 41-500 kw) B2-A (10)	0.04	0.00	2,134	97		460	23.41	440	23.62	(0.21)	20.00	·	
B2 - B TOU (Peak)	225.40	1.20		6 774 644	{	460	28.51	440	29.12	(0.61)	20.00		
B2 - B TOU (Off-peak)	1,094.00	0.82	11,68/	5,771,544		440	20.13	440	29.32	(0.14)	20.00		
B3 - TOU (Off-peak)	731.03	3.89	473	2,949,528		440	18.59	420	20.40	(1.81)	20.00	•	
B4 · TOU (Peak)	42,63	0.23	-			420	28.51	400	29.12	(0.61)	20.00		
B4 - TOU (Off-peak)	221.74	1.18	. 12	729,740		420	19.87	100	20.68	(0.81)	20.00	<u> </u>	
Temporary E-2 (58)	3.62	0.02	108	13 505 527	<u> </u>	<u> </u>	24.16		20.42	(1.20)		<u> </u>	
Buik	2,055		11,114	10,000,021	<u> </u>		<u> </u>	+				· ·	†
C1(A) Supply at 400 Voits - up to 5 kW	0.01	0.00	40	69			26,54	· · .	28.44	(1.90)		-	
C1(B) Supply at 400 Volts - above 5 kW	0.52	0.00	163	1,228		460	25.58	140	27.66	(2.08)	20.00	<u> </u>	
C-1C Time of Usa (TOU) - Peak	12.44	0.07		140.640		460	29.90	440	22.35	(2.45)	20.00	+ <u>-</u>	
C2A Supply at 11 kV	1.03	0.01	13	2,720		400	22.67	420	25.50	(3.93)	20.00	·	+
C-28 Time of Use (TCU) - Peak	57.30	0.30	-			440	25.69	420	31.11	(5.42)	20.00	<u> </u>	
C-2B Time of Use (TOU) - Off Peak	165.62	0.88	72	508,849		440	19.98	420	22.63	(2.65)	20.60	· ·	
C3-A Supply above 11 kV	1.81	0.01	<u>                                      </u>	24,954		420	22.60	400	26.48	(3.88)	20.00	<u>                                      </u>	+
C3-B Time of Use (TOU) - Peak	33.07	0.03	2	86.495		420	19.91	400	22.51	(2.60)	20.00		1
Total Single Point Supply	314	1.67	597	764,352	-				L	1	-	<u> </u>	
Agricultural Tube-wells - Tariff D	[	•	· · · ·			L			<u>.</u>				
D-1A (41,42,43,44,46)	10.02		3,508	·			25.90		25.25	<u> </u>	20.00	0.65	+
D-18 (45) Off-Peak	43 94	0.06	1 211	112.020		220	21.26	200	19.56	<u>}</u>	20.00	1.70	+
D-2A (47,48,49,52) (NOR)	0.08	0.00	11,929	2,330		220	19.60	200	13.07	-	20.00	6.53	
D-2A (47,48,49,52) (SUB)	0.68	0.00	3	2 854		220	19.60		13.07	<u></u>	220.00	6.53	
D-2B (50,51,53,54) Peak (NOR)	0.12	0.00		53 770		220	28.21	200	15.60		20.00	12.61	-
D-28 (50,51,53,54) Off-Peak (NOR)	492 70	2.57	4,181	55,772		220	28.21	. 200	15.60		220.00	12.61	+
D-2B (50,51,53,54) Off-Peak (SUB)	2,785.10	14.81	107,065	15,750,825		220	17.54	-	12.46	<u> </u>	220.00	5.08	<u> </u>
	•	1				<u> </u>		<u>.</u>		<u>  · · · · · · · · · · · · · · · · · · ·</u>	· · ·		+
Total Agricultural	3,324	17.68	127,897	15,921,862				<u> </u>			<u></u>	ļ	+
Public Lighting G	20.52	0.11	2,140	-		<u>-</u>	24.98		28.15	(3.00)	<u> </u>		-
Special Contracts - Tariff K (AJK)							~	1		,,	-	-	
Time of Use (TOU) - Peak							· · · ·		·		· · ·	-	
Time of Use (TOU) - Off-Peak				i				· · · ·	200	(1 70)	<u> i</u>		
A-38 (0b)	320.6/	1./1	52,714	· · · · · · · · · · · · · · · · · · ·			43.12	1	20.90	- (1.70)	<u> </u>	+i	
Grand Total.	18,801	100.00	9,262,341	32,425,545	-	1 .	<u> </u>	1	· · · · ·	1			1



MEFCO	
Revenue & Sul	osidy Statement - P
F.Y. 2024-25 -	(Full Year)

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Description	Sales	Sales Mix	Ne. of	Connected Load	Loag	Revenue a Propos	as per New ed Tariff	Revenue Notifie	as per GoP ed Tariff	IDTR		Subsidy	
			Consumers		ractor	Fixed	Variable	Fixed	Variable	1	Fixed	Variable	TOTAL
	(MkWh).	(%age)	Nos.	(kW)	(%age)	(Rs/kW/M)	(Rs/kWh)	Charge (Rs/k\V/M)	(Rs/kWh)		Charge (Rs/kW/M)	Charges (Rs/kWh)	(Rs/kWb)
Residential								3				(102(11))	(Itantity)
Eor peak load requirement up to 5 kW	68	0.36	675,897	·	<b>.</b>		387		384		·	3	3
01-100 Units	1,754	0.33	4.671.952				39 344		25 155		<u>.</u>	14 190	
101-200 Units	3,014	16.03	2,264,226				69,860		50.874	<u> </u>		18,986	18 986
201-300 Units	2,514	13.37	456,148	-	-	· · ·	62,097		48,822			13,275	13,275
301-700Units	2,824	15.02	128,460			·	79,714		78,669		•	1,045	1,045
For peak load requirement exceeding 5 kW	5/9	3.08	6,120			· · ·	17,162		18,176	(1,014)	<u>-</u> -	·	(1.014)
Time of Use (TOU) - Peak	27	0.15				] -	810		859	(49)	<u>-</u>		- (49)
Time of Use (TOU) - Off-Peak	110	0.58	21,886	-	•		2,355	· · · ·	2,484	(128)	-		(128)
Temporary	1	0.00	1,325	-	•		16		17	(1)	•	-	(1)
	10,891	· 57.93	8,226,014	<u> </u>	· · ·	•	271,744		225,439	(1,193)	-	47,498	46,305
Commercial - A-2A			·				· <b>-</b>		·			<u> </u>	
For peak load requirement up to 5 kW	544	2.90	746,172			-	14.958		15 263	(305)	-		(305)
Commercial (<100)				· · · ·						- (000)	-	-	
Commercial (<20 KW)													
Regular A-2B				1 600			· · · · · · ·	la la faga	·	· · ·	·····	<b>-</b>	
A-2C (TOU) - Peak (A-2)	112	0.59					3 224	···· <sup>1</sup> .	3 578	(354)	0		(1)
A-2C (TOU) - Off-Peak	366	1.95	26,959	2,131,418	-	980	7,493	938	8,638	(1,145)	43		(1,103)
Temporary Commercial E-111 (56)	7	0.04	2,480	•	•	-	205		206	(1)	•	•	(1)
Total Commercial	1,029	5.47	775,645	2,133,104	<u>_</u>	981	25,885	939	27,691	(1,806)	43	-	(1,763)
B1 (400 Volts Lloto 40kw) (07)	38	0.20	19 284			· · · • • • • • • •	1 025			· ·			<u> </u>
B1 (400 Volts Upto 40kw) (08)			23				1,025		901				
B1 (b) (Peak)	77	0.41					2.207		2.245	(38)			(35)
B1 (b) (Off-Peak)	300	1.50	43,453	4,154,719	_ ·		6,205		6,394	(189)	-	-	(139)
B2 (400 Volts 41-500 kw) B2-A (10)	0	0.00	2,134	97		0	1		1	(0)	0	-	(0)
B2 - B TOU (Off neak)	225	5.92	11 697	5 771 514			6,426	2 5 20	6,564	(137)			(137)
B3 - TOU (Peak)	160	0.85		3,771,344		2,000	4 681	2,559	4 704	(22)			
B3 - TOU (Off-peak)	731	3.89	473	2,949,528		1,298	13,591	1,239	14,914	(1,323)	59		(1.254)
B4 - TOU (Peak)	43	0.23	-		· · · ·		1,215		1,241	(26)	•	<u> </u>	(26)
B4 - TOU (Off-peak)	222		12	729,740		306	4,405	292	4,584	(180)	15	·	(165)
Total Industrial	2 893	15 39	77 174	13 605 627		4 259	61 887	4 070	92	(5)	- 190		(5)
Bulk	- 2,050	- 10.001		10,000,0/21						(2,133)			(2,352)
C1(A) Supply at 400 Volts - up to 5 kW	0	C.00	40	69			0		0	(0)	-		(0)
C1(B) Supply at 400 Volts - above 5 kW	1	0.00	163	1 226		1	13	1	. 14	(1)	0	•	(1)
C-1C Time of Use (TOU) - Peak	12	0.07	-	110.010			372		402	(30)			(30)
C2A Supply at 11 kV		0.19	306	2 720			23	- 62	812	(148)			(145)
C-2B Time of Use (TOU) - Peak	57	0.30					1,472	· · · · ·	1.783	(311)			(311)
C-2B Time of Use (TOU) - Off Peak	.166	0.88	72	508,849	· · ]	224	3.309	214	3,748	(439)	10		(429)
C3-A Suppiy above 11 kV	2	0.01	1	24.954		10	41	10	48	(7)	0		(7)
C3-B Time of Use (TOU) - Peak	6	0.03					180		201	(21)	<u> </u>		(21)
Total Single Point Supply	314	1.67	597	764,952	+	337	6,733	322	7.781	(00)	- 15		(1.032)
Agricultural Tube-wells - Tariff D		• 1			·					-	. 1	• •	
D-1A (41,42,43,44,46)			3,503								-		
D-1B (45) Peak	11	0.06					324		321			3	3
D-1B (45) Off-Peak	44	0.23	1,211	112,030		25	934	22	859	<u>-</u>	2	75	77
D-2A (47,48,49,52) (SUB)		0.00	3	2,854				····				· 4	5
1D-26 (50,51,53,54) Peak (NOR)	ō	0.00				······	3	••••	2			1	1
D-2B (50,51,53,54) Off-Peak (NOR)	0	0.00	4,181	53,772		12	E	11	4		1	2	3
D-2B (50,51,53,54) Peak (SUB)	483	2.57	107.005	11 750 005			13,619		7,532			6,087	6,087
U-20 (00,01,53,54) ОП-Реак (SUB)	2,785	14.81	107,065	15,750,825		3,465	48,859		34,/11	— <u>:</u>	3,465	14,148	17,513
Total Agricultural	3,324	17.58	127,897	15,921,862		3,503	63,760	34	43,439		3,469	20,321	23,790
Public Lighting G	21	0.11	2,140				513	•	574	(62)	-		(62)
Residential Colonies H	7	0.04	160	-			191		210	(19)	•	•	(19)
Special Contracts - Tanff K (AJK)	<b>.</b>	·- ·							·			i	
Time of Use (TOU) - Peak	1						the pair of the last	:	· · · · · · · · · · · · · · · · · · ·				<u> </u>
A-3a (66)	321	1.71	52,714				8,056	· · · · · · · · · · · · · · · · · · ·	8,627	(571)		•	(57
			•		<u> </u>								
Grand Total	18,801	100	9,262,341	32,425,545	· 1	9,080	438,769	5,364	378,363	(7,493)	3,716	67,894	64,117



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Power Distribution Business MEPCO

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## Bonds

	Interest		. FY	-	
Particulars		Opening	Dedomation	Closing	Interest
	Rate	Balance	Redemption	Balance	Charges
	- 1		2000 A		
			NIII		
		ł	1		1
		-			

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and the sources



#### Multan Electric Power Company Ltd.

Calculation Sheet of Return on Rate Base

FY 2015-16 To FY 2019-20

Description		FY 2015-16	FY 2015-16	FY 2016-17	FY 2016-17	FY 2017-18	FY 2017-18	FY 2018-19	FY 2018-19	FY 2019-20	FY 2019-20
Description		Determined	Actual								
Gross Fixed Assets in Operation - Opening Bal	[Min Rs]	95,785	95,785	104,399	104,399	118,360	119,651	130,473	130,473	144,295	144,295
Addition in Fixed Assets	[Min Rs]	8,614	8,614	13,961	15,252	11,451	10,822	13,822	13,822	13,868	9,770
Gross Fixed Assets in Operation - Closing Bal	[Min Rs]	104,399*	104,399	118,360	, 119,651	129,811	130,473	144,295	`144,295	158,163	154,065
Less ; Accumulated Depreciation	[Min Rs]	33,436	33,436	37,174	37,342	41,269	41,606	46,305	46,305	51,459	51,433
Net Fixed Assets in Operation	[Min Rs]	70,963	70,963	81,186	82,310	88,542	88,867	97,990	97,991	106,704	102,632
Add : Capital Work In Progress - Net of D.Work	[MIn Rs]	10,717	6,766	8,779	4,677	10,329	7,046	10,899	10,899	11,032	15,040
Investment in Fixed Assets	[Min Rs]	81,680	77,729	89,965	86,987	98,871	95,913	108,889	108,890	117,736	117,672
Less: Deferred Credits	[Min Rs]	58,833	43,891	53,832	48,488	58,235	52,220	68,595	57,195	69,990	59,724
Regulatory Assets Base	[MIn Rs]	22,847	33,838	36,133	38,499	40,636	43,693	40,294	51,695	47,746	57,948
Average Regulatory Assets Base (RAB)	[MIn Rs]	21,285	32,644	29,490	36,168	38,385	41,096	37,656	49,752	44,020	54,822
Rate of Return	[%age]	11.83	11.83	11.83	11.83	11.83	11.83	10.95	10.95	15.02	15.02
Return on Rate Base	[MIn Rs]	2,518	3,862	3,489	4,279	4,541	4,862	4,122	5,446	6,610	8,232
Variance Determined Vs Allowed	(Min Rs)	<u> </u>	1,344		790		321		1,324		1,622
TOTAL (MIn Rs.)											5,400

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# Dr. Note RECEIVED FROM CPPA PAYABLE OF MED

S.No.	Cr. Note No.	Date	Amount (Rs.)	Remarks	
1	PPA-03/MEPCO-01	Jul-16	271,070,000.00	Payment of E.Duty	
2	/ PPA-21/MEPCO-02	Mar-17	300,000.00	2 Council fee	
3	PPA-335/MEPCO-19	Jun-14	456,376,227,09	PEPCO Allied offices exp	
4	PPA+28/MEPCO-22	Jun-15	- 12.025,552	PEPCO Allied offices exp FOR 2015	
5	PPA-228/MEPCO-20	Jun-18	70,079,207.05	PEPCO Allied offices exp FOR 2016	-
6	PPA-35/MEPCO-03	Jun-17	74	REPCO Allied offices exp FOR 2017	]-
7	PPA-203/MEPCO-19	Oct-15	59.00	Advert <b>isement</b>	
	TOTAL		881,620,197.7	5	

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MEPCO CENTRAL POWER PURCHASING AGENCY Manager Finance (Treasury) CPPA Gardee Trust Building Napler Road Lahore. DEBIT MEMO **REFERNECE:** IOT SECTION Jun-14 PPA-335/MEPCO-19 ISSUING OFFICE Manager Finance (Treasury) CPPA RECEIVING OFFICE: FINANCE DIRECTOR. Dated: Jun-14 JE PEO Mind Ext MEPCO. MULTAN 7.Sra We have Debited your account for the amount of Rs. 456,376,227.00 Four Hundred Fifty Six Million Three Hundred Seventy Six Thousand Two Hundred Twenty Seven **Rupees and Zero Paisa** Being the Debit raised on account of operation and mantentance expenses of PEPCO allied formations chargeable to your office as approved by CFO PEPCO (Copy enclosed) detail attached. ACCOUNT CODE DESCRIPTION DEBIT CREDIT 150103 TRADE DEBTORS 456,376,227.00 456.376.227.00 TOTAL EPAREN CHECKED B



## SUBJECT FINANCING TO PEPCO FORMATION BY M.E (TREASURY) CPPA, TO BE PRORATED TO DISCOS

It is apprised that Manager Finance (Treasury) CPPANTDCL is making payments to lower formations of EEPCO against O&M expense since July 2008. The said expenses is to be debited to DISCOS/SENCOs at different ratio as mantioned in the budget approved by the Director Budget PEPCO for the each Financial year and for each allied office. The formation wise detail of Financing by M.F(Treasury) is up to June 2014 as under:-

NO			
	FCRMATIONS	AMOUNT	<u>Desitable to</u>
	C.E (R.E)	85,347,238	All DISCOs at different ratio
	C.E (ADMN: ) FOWER	1,553,058,998	AN DISCOs at different ratio
	C.E (P.J)	100,562,335	All DiSCOc at different ratio
	G.H. (NAS)	331,209,823	All DISCOs at different ratio
	CHIEF AUDITOR	212,926,979	All DISCOs at different ratio
	( Pau)	252,508,498	A& DISCOs at different ratio
	M.F THERMAL	395,788,675	All GENCOs on equal basis
	g.m Pinance (Pepco)	132,110,875	All DISCOs at different ratio
	TOTAL	3.063.992.274	

To clear the receivables from allied offices in CPPA Books, as mentioned in budget approvals, said financing is to be charged to DiSCOs/GENCOs for which CFO.PEPCO may requested to approve the charging of expanse to the concerned entities at the ratio as mentioned in the Budget Allocation.

Moreover, it is also requested that DISCOs/GENCOs may also be advised to incorporate the said expense in their books in the current financial year.

Submitted please.

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M.F. (T) CPI

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T. MANAGER (IOT)

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MANAGER FINANCE (TREASURY) As columned, the Case for prozation of funch transferred to Allad offices is bulinted for getting approval of CPO (PEPEO) as mer, 6. 7. above ph. 8. <u>Gm F (PEP10)</u> the exponsaid details promide an overall pointure of the long outstanding mether.

10/ 11/ 2014

MF. (T) may gohered be achersed to deconcile The figures in para- I will the respusive alled of PERO and prepare a year-wise break-up & Way the Desit Note to DISCOS/GENCOS at The eath CFO PEPCO 11/11/2014 Allocations to de "ssmer on propos the above parces ). Pres = & approximal. Presentitiation prono à la completel side la side . As per alinettan in para-9. 2 1) MPIJI / CPPA For further matice pl 13/11/2014 A13/11/14 12. Dm (Alus)

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ESCO	150106	64	112,126,859.28	
ESCO	1501071	14	65,407,334.56	
EPCO	150108	45	70,079,287.05	
ESCO	150109	6	23,031,714.82	
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300	150111	<b>\$</b> 0	45,713,524.70	a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ESCO	150112	10	48,719,524.70	
ESCO	150113	5	23,359,752.35	
ESCO	150118	1	4,671,952.47	
EPCO	1501371	,4 	18,687,809.88	
OTAL (DISCOS)	A BA BUCK BALLAR ALTONIAL DAVID LTAILAND AND ALTONIAL	100	437,195,247.00	
BENCO-1	150102	30	34,596,133.20	
SENCO-II	150103	30	34,596,133.20	
BENCO-III	1050104	30	34,596,133.20	
BENCO-IV	150117	10	11,532,044.40	
TOTAL (GENCOS)		100	115,320,444.00	The succession of the second s
TOTAL (DIS+GEN)			532,515,691.00	
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PMU	150119001			12,280,0
M&S	150119002			40,200,0
M.D POWER	150119003			241,223,2
C.A PEPCO	150119004			42,594,1
SR E&O(TH)	150119003			116,449,
C.E (P&D)	150119008			22,524,
REO	15011907			18,745,
M.D PEPCO	150119008			94,506,
G.TOTAL			588.547.296.0	0 588,547,

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Central Power Purchasing Agency Guarantee Limited A Company of Government of Pakisian CPA OFFICE OF THE 051-9216956 PHONE Manager Corporate Accounts CPPA-G 4sh Floor, ENERCON Building, Islamabad 24-65-2:17 HO.MFI(T)/CPPA/IOTI\_ 23572-DATED: ENANCE DIRECTOR EPCO) Multan. <u>Jun-16</u> SUBJECT: DEBIT MEMO FOR Please find enclosed herewith Debit Memo details as below partains to your company for necessary and early adjustment at your end. 藏 ENCLOSURES AMOUNT MONTH DEBIT MEMO NO. SR.NO 70.079,287.05 7 Jun-18 PPA-228/MEPCO-20 4 ă dines は教育に 20 **E** sstt: Mana ger (c.a) 1.32<sup>13</sup> RECEIVEABLE PAYABLES/ Audit Cell isn) Buc . 施 Coi Establish Pay For Pension Salary Slip Pre-Audit Tax Cell Reim

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FERNECE:	JVIOT	Jun-16	304.998M#PCA.20
UING OFFICE	Manager Corporate Accounts CPPA (	G) Ltd	2. 1. 39
CEIVING OFFICE:	FINANCE DIRECTOR.	Dated:	Jun-18 🖕
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			Distance - Contraction
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285.000.00		2,526,429.00	750,000.00	2,450,000.00	5,000,000.00	1,800,000
		13,590,000.00	750,000.00	215,000.00	14,200,000.00	4,200,000
		1,225,000.00		20.000,000	53,100,000.00	2,000,000
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FESCO	150107	14	66,844,094.52	Construction of the Constr
MEPCO	150106	15	71,618,672.70	V To TAK UNITARY SHOULD PROVIDE A COMPANY OF THE SHOULD BE AND A COMPANY OF THE SHOULD BE AND A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY. A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY. A COMPANY OF THE SHOULD BE A COMPANY OF THE SHOULD BE A COMPANY. A COMPANY OF THE SHOULD BE A COMPANY. A COMPANY OF THE SHOULD BE A COMPANY. A COMPANY OF THE SHOULD BE A COMPANY. A COMPANY OF THE SHOULD BE A COMPANY. A COMPANY OF THE SHOULD BE A COMPANY. A COMPANY OF THE SHOULD BE A COMPANY. A COMPANY OF THE SHOULD BE A COMPANY. A COMPANY OF THE SHOULD BE A COMPANY. A COMPANY OF THE SHOULD BE A COMPANY. A COMPANY. A COMPANY OF THE SHOULD BE A COMPANY. A COMP A COMPANY. A CO
QESCO	150/09		28,547,469.08	
eeeco	150310	10	52,520,359.98	a na ana ana any ana ana ana ana ana ana
IESCO	150111	10	47,745,781.80	ר איז איז איז איז איז איז איז איז איז איז
PESCO	150112	10	47,745,731,80	
HESCO	150113		23,872,890,30	
TESCO	150118		4,774,578.18	n and an an an an an an an an an an an an an
SEPCO	150137	A	19,098,312.72	n an an an an an an an an an an an an an
TOTAL (DISCOS)		100	477,437,818.00	Jan and Carl Standing of the State of the St
GENCO-I	150102	30	32,824,200.00	
GENCO-II	150103	30	32,824,200.00	A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR A
GENCO-III	1050194	30	32,824,200.00	an an an an an an an an an an an an an a
GENCO-IV	150117	10	10,941,400.00	
TOTAL (GENCOS)		100	109,414,060.00	and an and the second
TOTAL DIS+GEN)			383,371,815.00	
PMU	150119001	and a second second second second second second second second second second second second second second second		95,878,389
M&5	150119002		a and an order of the same of a same of the first section of the first section of the same of the first section of the same of the first section of the same of the first section of the same of the s	18,068,000
M.D POWER	150119003			205,225,000
C.A PEPCO	150119004			9,400,000
SR B&O(TH)	150119005			109,414,000
REO	15011907			8,820.000
M.D PEPCO	150119008			140,065.429
G.TOTAL			586,871,818.00	586,871,318

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# PM ASSISTANCE ' PACKAGE (Supporting Documents)

Prime Minister Assistance Package for Families of Governement Employee Who Die in Service

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Sr. No.		One Time Payment	Annual Impact				
	Lump Sum Grant on						
1	natural death	333.000	111.000				
2	Pension	63.528	32.591				
3	Accomodation	67.684	22.561				
4	Allotment of Plot	1345.000	488.000				
5	Marriage Grant	234.880	78.293				
6	Walfare Grant		8.065				
		-					
	Total	2,044.092	740.510				

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## Prime Minister Assistance Package for Families of Governement Employee Who Die in Service

		4	
Scale	No. of Employees	Lump Sum Grant	Total amount
1-4	54	0.600	32.400
5-10	146	0.900	131.400
11-15	113	1.200	135.600
16-17	16	1.500	24.000
18	4	2.400	9.600
Total	333		333.000

Lump Sum Grant

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Lump Sum grant in cas of fatal accident on live lines @ Rs. 2.500 (M)

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34	2.500	85.000
فيستعد القادي وبالمثلة فالتواد البريان فللقوا والمتكال فتتقال المتهوما المتجور وأستخط المتحاد التكري كالمتحد والمتك	فانتقادها ويرجعهم والمتخذ فبمنك فالتكاري ويتبن والتقاف المتحدي	أشكروه ببدا فالمحجة والمستحد التحريب فيتراج بالمستحد

# Prime Minister Assistance Package for Families of Governement Employee Who Die in Service

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Scale	No. of Employees	Entitlement	Standard Rent	Per Month Rent	Annual Projection	3-year Projection
1-4	56	F-Type	2,500	140,000	1,680,000	5,040,000
5-10	165	E-Type	3,625	598,125	7,177,500	21,532,500
11-16	133	D-Type	6,563	872,879	10,474,548	31,423,644
17-18	13	С-Туре	20,700	269,100	3,229,200	9,687,600
	367			1880104	22561248	67683744

(Accomodation)

Scale	No. of Employees	Lump Sum Grant	Total amount
1-8	172	2.000	344.000
9-16	182	5.000	910.000
17 and above	13	7.000	91.000
Total	367		1,345.000

## Prime Minister Assistance Package for Families of Governement Employee Who Die in Service (Allotment of Plot)

## Prime Minister Assistance Package for Families of Governement Employee Who Die in Service

	(1316)116	searany		
Scale	No. of Employees	Lump Sum Grant	<b>Total Amount</b>	Monthly Impact
1 1 0	267	0.800	202.000	78 202
1-18		0.800	293.600	/8.293
. 1	Existing policy (.08*2*367)		58.720	
			234.880	

(Marriage Grant)

# ONE PAGE HISTORY AND AND DIE IN SERVICE

Conference of the

- DG (ER) PEPOO WAPDA House, Labore vide No. GM (HRVHRD/A-332 /4050-75 dated: 04.11.2016 issued office memorandum regarding Assistance Package for families of employees who die in service (Annex-A).
- MEPCO BOD in 134<sup>th</sup> meeting hald on 20.03.2018 notified by Company Secretary MEPCO HQs Multan vide letter No. 24390-414 dated: 02.04 2018 accorded approval for adoption of said package w.e.f 04.11.2016 subject to condition that the company will prepare a new amended MEPCO policy duly vetted by Director (Legal) MEPCO HQs Multan ensuring that there will be no duplication of benefits and employees will not be deprived of any benefit which they are already availing (Annex-B). Office order for adoption of said package was issued vide No. 89-I/46059-81 dated: 24.04.2018 (Annex-C).
- In compliance of directions of MEPCO BOD, a new amended MEPCO policy was prepared and sent to Director (Legal) MEPCO HQs Multan vide this office U.O No. 47206 dated: 26.04.2018 (Annex-D).
- Director (Legal) MEPCO HQs Multan vide isiter No. 27074-77 dated: 14.03.2019 forwarded the colloy duly vetted by Rao Muhammad Iqtial, Advocata Supreme Court / Senior Legal Advisor MEPCO (Annex-E).
- New amended MEPCO policy duly verted by Senior Legal Advisor MEPCO was put up to the then Chief Executive Officer MEPCO (Mr. Tahir Mehmood) for perusal, who directed to put up the same in BOD alongwith financial implication for final approval (Annex-F).
- The matter was referred to Finance Director MEPCO alognwith scale wise abstract of died employees w.e.f 04.11.2016 to 07.05.2019 for provision of financial implication vide this office letter No. 44453 dated: 07.05.2019 (Annex-G).
- Finance Director MEFCO vide his latter No. 4586 dated: 01.09.2020 provided the financial implication for adoption / implementation of new amended MEPCO (Annex-H), or the meanwhile matter remained under correspondence with Finance Director MEPCO and other different offices for fulfillment of pre-requisites.
- The matter was again put up for soliciting advice that whether new amanded MEPCO policy duly vetted by Sr. Legal Advisor MEPCO may be circulated / disseminated to all lower formations under MEPCO for its implementation in true letter & Spirit or an item note may be prepared and presented before MEPCO BODfor its approval as per remarks of the then CEO MEPCO (Mr. Tahir Mehmood). DG (HR&Admn) MEPCO given his remarks that "previous order in this regard was conditional subject to preparing amended policy to avoid any duplication of policy / benefits. Hence, it is appropriate to take up the case with BOD together financial implication given by FD. Also, keep in view direction of PEPCO regarding inclusion of cost in tariff petition and approval of NEPRA for the budget" (Annex-I).
- In the light of Directions of DG (HR&Admn) MEPCO, Assistant Director (Admn) MEPCO (Rana Muhammad Sarfraz) met with Finance Director MEPCO (Mr. Aftab Fazal) on said matter, who informed that cost / budget will be included in tariff petition and informed to NEPRA after approval of the said package from MEPCO BOD as NEPRA is not colley making / policy approving Authority for MEPCO, NEPRA will only determine the tariff of MEPCO according to expenses of Company.
- It is pertinent to mention here that from the date of issuance of DG (HR) PEPCO Office memorandum regarding Assistance Package for families of employees who die in service dated: 04.11.2016 todate PEPCO is pressing very hard time & again for adoption / implementation of said package in true letter & spirit. In addition, bereaved families of deceased employees are also requesting for payment of benefits as per said package and causing litigations at different forums.

## Pakistan Electric Power Company (Pvt.) Limited Office of the General Manager (Human Resources) 192-WAPDA House, Sheirah-FOuck-FAzam, Latero Tel: (042) 99202652 & 99202211/2192 Fax: (042) 36369324



RETA GMICHROMARDIA 402 9250-70

## OFFICE MEMORANDU

Subject: Assistance Package for Families of Employees With Din in Service.

Reference: Decision of BoD PEPCO in Agenda item No.5 in its 61<sup>th</sup> Mealing held on 23.09.2016.

BoD PEPCO has been pleased to edopt Establishment Division's Office Memoranda No.8/10/2013-E-(Pt) dated 04.12.2015 and No.1/39/2013-E-2 (pt) dated 03.08.2016 with regard to revision of Assistance Package. The said package is applicable, mutatis mutandis, for families of employees, who die in service, as under:

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Approval for authorization to Chief Executive Officer MEECO Ltd Muttan to grant the continued retention of 354 Nos. daily wagers already ivorking on 89-days spell basis for village electrification, deposit works, HT Foeder & 1.T Proposals w.s.f 17-12-2017 to 15-03-2018 (89 days) and further (if required).

Decision

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134-BOD-R30 RESOLVED that approval and directions issued in Agenda Item No. 5 (i) be followed.

ly. Approval for assistance package for families of employees who die in service.

The agenda was presented by HR & Admin Director. The Board was intimated that the case was presented to the HR Committee in its meeting held on 20.03.2018. The Committee was apprised that DG(HR) PEPCO O/O General Manager (HR) PEPCO WAPDA House, Labore vide Office Memorandum No. GM(HR)/HRD/A-332/4050-75 dated: 04.11.2016 has conveyed approval of PEPCO BOD regarding adoption of Establishment Division's Office Memoranda No. 8/10/2013-E (Pt) dated 04.12.2015 and No. 1/39/2013-E-2 (Pt) dated 03/08.2016 with regard to revision of Assistance Package. The said package is applicable, mutatis jourandis, for facilities of employees, who die in service, as under-

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Minutes of 134th BOD Meeting

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Minutes of 134<sup>th</sup> BOD Meeting

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A death will be deamed to be a "Security Related Dea ha" if it occurs due to a terrorist act or while combating or conflocting the terrorist(s).

3. Relevant rules and policies stand amended to the above effect.

It was mentioned that an item note was prepared and presented before HR Committee of MEPCO BOD in its meeting held on 03.03.2017. The HR Committee deferred the case till clarification regarding allotment of plot to legal heirs of MEPCO employees. The Committee further instructed the HR&Admn Director to take up the matter with PEPCO regarding clarification and present the case in Board meeting along with the clarification from PEPCO for in plementation in MEPCO as approved by PEPCO with effect from the same date as issued by PEPCO i.e. 04.11.2016. In view of above, a reference was made to GM (HR) PEPCO for seeking advice refarding allotment of plot to legal heirs of MEPCO employees vide letter dated 04.04.2017 and clarification was received from AM (Admn) PEPCO vide letter dated 13.04.2017 stating therein that a lumine sum grant is to be paid to the widow of deceased employee as per slab given under head "Allotment of Plot" in OM No. GM(HR)/HRD/A-332/4050-75 dated 04.11.2016 only and not plot. The case was presented before MEPCO BOD which in its decision taken in 122<sup>nd</sup> meeting held on 08.04.2017 age hast Agenda item No. 16(in) conveyed

Minutes of 134th BOD Meeting

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Secretary MERCO Higs Multan vide Jetter (10, 4060-80, datas 20, 34,2017 has Is HR&Admin Director to opproach the Ministry of Mater & Rewer & PERCO for seeking the meet with the heavy financial impact if the policy is adopted / implemented. A reference the to MD PEPCO WAPOA House, Lehore vide this other letter dated: 26.14.2317, that TYO. BOD has requested to approach Ministry of Water & Power to allocate funds of Rs. 370 This per annum to MEPCO on 1" July of every financial year to meet with the annual expanditure This regard. The case was again presented before MEPCO SCO which in its decision taken in 123rd meeting held on 15.05.2017 against Agende Item No. 04(ve) conveyed by Company Secretary MEPCO H/Qs Multan vide letter No. 5264-86 dated 26.05/2017 has accorded its approval for adeption and implementation in MEPCO as clarified by PEPCO "subject to approval of NEPRA" from the same date as issued by PEPCO i.e. 04.11.2016. In view of above, a reference was made to Registrar (NEPRA) vide latter dated 22.05.2017 for allowing additional impact on revenue requirements w.e.f 04.11.2016 and to be requested in Tarily Structure from time to time. The following companies have adopted the Prime Minister's Assistunce Package as Lincelly

- TESCO 1.
- **GEPCO** 2.
- LESCO 3.
  - (except Allotment of Plot)
- 4,

(except Allotment of Plot & Special Lump sum Grant from Welfare Fund)

It was mentioned that All Pakistan WAPDA Hydro Electric Union (CBA) is elso pressing hard for adoption of said package in MEPCO vide General Scoretary, All Pakister WARTA Hypto Electric Union (CBA) letter dated 09.10.2017 & dated 23.11.2017 respectively. The Commission was requested to recommend the case for Board's approval. The Committee digiborated upon the issue and after due consideration principally agreed to recommended the case for poard's approval with the has uctions to prepare a new amended MEPCO Polley dully verted by Disgner Legal ensuring that there will be no duplication of benefits and employees will not us deprived of any base fit which they are already availing. The Board was requested to consider the matter,

34-BOD-R310 RESOLVED that approval for adoption of DC (HA) FEF CC, O/O Coneral Manager 1 Decision

HR) PEPCO, WAPDA House Labors Office Menorshill Bank And BDA 332/4050-75 dated: 04.11 2016 as clarified by PEPCO to be the that as issued a by PBPCO i.e. 04.11.2016 is hereby accondid subject 15 the Sorthing. Mat they Company will prepare a new amended MERCO Policy duily vetted by Director ; Legal ensuring that there will be no cuplication of tenerits and eat loyses will not / be deprived of any benefit which they are already availangs

The approval is based on the following confirmations by the management of MEPCO

a. The worlding paper represents true facts of Jubyected case.

- b. Rules and procedure as laid down in PPRA Rules for such case have been duly complied with and adopted by the MBPCO
- e. Financial evaluation case has been carried out correctly on the casis of true facts.
- d. Any misstatement of the facts and figures in the working paper would make MEPCO management liable for the consochences.

Approval for compensation package for Officers posted on Promotion out of parent VA Vi. companies.

The agenda was presented by HR & Admin Director. The Bhard was intimated that the case was presented to the HR Committee in its meeting held on 20.03.2018. The Committee was apprised that

Minutes' of 134<sup>th</sup> BOD Meeting

# TAN ELECTRIC POWER COMPANY

46059-81 CE/MEPCO/EA-II/PMAP

free of the PCO H/Qs, Multan Date: - 34 -04 - 2018

# OFFICE ORDER

MEPCO BOD in its 134<sup>th</sup> meeting held on 20.03.2016 against agenda item No.5 (v) notified by Company Secretary MEPLO Multan latter No. 24390-414 dated: 02.04.2013 has been pleased to accord approval for adoption of DG (HR) PEPCO, WAPDA House Lahore Office Memorandum No. GM (HA) / HRD /A-332 050-75 dated: 04.11.2016 regarding revision of Addistance Package for families of deceased employee who die during service in MEPC) w.e.f 04.11.2016 subject to the O condition that the company will prepare a new amended MEPCO policy duly vetted by Director (Legal) ensuring that there will be no duplication of benefits and employees will not be deprived of any benefit which they are already availing. The sold package is applicable, mutatis mutandis, for families of employees, who die in service.

(Muhamman Nacom Ulah) **HRAdmn** Director nz MEPCO H/Qs Multan

## Copy to:-

2:10380

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admn2section@vahc

- 1. GM (HR) PEPCO, 192-WAPDA House Laho
- 2. All GMs under MEPCO HQs Multan.
- 3. All Chief Engineers under MEPCO.
- 4. Finance Director MEPCO H/Qs Multan.
- 5. MS WAPDA Hospital Multan.
- 6. Addl. DG (IS) / (IC) MEPCO Multan.
- 7. All SE's (OP) / (GSO) / Managers under MEPCO.
- 8: Project Director (GSC) / (Const.) MEPCO Multan.
- 9: Addl. Manager (PR) MEPCO HQs Multan.
- 10. Company Secretary MEPCO H/Qs Multan w/r to his office letter No. referred above.
- 11. SO to CEO MEPCO Multan.
- 12. Special Judicial Magistrate MEPCO WAPDA Multan
- 13. Deputy Manager (Trg) RTC / TRW MEPCO Multan.
  - 14. XEN (Civil) MEPCO HQs Multan.
  - 15. Master File.

PACKAGE

U.O. Letter - 2018

FOR FAMILIES OF

It is intimated that DG (HR)/HRC/A-332/4030-75 dated 04.11.2016 regarding revision of Assistance Package for families of deceased employee who die during service has been adopted by MEPCO EOD in its 134<sup>th</sup> meeting held on 20.03.2018 against agenda item No.5(v) notified by Company Secretary MEPCO Multan letter No.24390-414 dated 02.04.2018 (copy anclosed) and Executive Order has been issued vide this office order No.89-I/46059-81 dated 24.04.2018 (copy enclosed).

However, MEPCO BOD has further desired to prepare a new amended MEPCO Policy and got it vetted by Director Lecal ensuring that there will be no duplication of benefits and employees will not be desirived of any benefit which they are already availing. Therefore, comments / input of all relevant MEPCO Sections / Departments on the subject noted Assistance Package have been obtained and a draft copy of the same is sent herewith for kind perusal and vetting please.

DAIAS aboves

Manager (Legai) MEPCO H/Gs Multan

Aaster File 'n

PRIME

Dated 2 6 APR 2018

(Abdbi-Jabbar Khan) Assistant Manager (Admn) MEPCO H/Qs Multan

CE/MEPCINEA-II/PF-PMAP

## MULTAN ELECTR

# R COMPANY LIMITED

in pirector (Legal & Labour) Legal & Labou Phone: 061-0220227 & 9210380-84 (Ext: 20) Mahle: 03.

(PCO H) Khanewai Road Multan 776204. 9220204 & 9220244

Email: legaldirectoratemenco/guad.com

# No.27074-77/CD/DEL-Assistance Package

Dated: 14.03.2019

IN RING

Deputy Director (FIRM), MEPCO Limited Multan.

Reference:

a. Short -	PM'S ASSISTANCE	PACKAGE	FOR FAMILIES	WIII 1713-	1) 01 10
500,000	SERVICE			•	

Your office letter No.27032-34/CE/MEPCO/EA-H/PF-PMAP Dated: 14.03.2019.

Kindly find enclose herewith Legal Opinion / Legal vetting in original pertaining to new amended MEPCO Policy Draft of Assistance Package (prepared by MEPCO Management) by Senior Legal Advisor MEPCO Rao Muhammad Iqbal, Advocate Supreme Court of Pakistan as desired by MEPCO BOD, which is self-explanatory.

Legal Opinion/Legal vetting pertaining to new amended MEPCO Policy Draft Package by the Learned Senior Legal Advisor MEPCO is submitted for your kind perusal and further appropriate action please.

IU ?

DA/As above (Legal Opinicu/Legal vetting

along with Annexure-A)

(Malik Ameer Samtia) Director (Legal) MEPCO Ltd: Multan

CC to: -

- 1. D.G (HR&Admn) MEPCO Multan.
- 2. Finance Director MEPCO Multan.
- 3. Company Sceretary MEPCO HQ Multan.
- 4. Master File.

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Rao Muhammad Idbal
Advocate Supreme Court

And Multan

Rao Muhammad Igbal Advocate Supreme Court Multan

CC to:

- 1. Finance Director MEPCO HQ Multan.
- 2. Director (Logal) MEPCO HQ Multan.
- 3. Company Secretary MEPCO Multan.

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xcion Acconemodation	100% previou to the formings of employees as per their length of set- pay drawn to bess of into them 10 w of the decayered employees, rate of years' service will be applicable.	A capacitad vide and last parts as vice minimum 10 A payment hid gger of	100% persion to the termines of poperation complexees as por bleir length of strikes and hat gat or even, in case of less that followers service of the decesser employees, rate of minimum 10 years' service will be applicable.           Retendor of official economicodation of peyment git rent of hired house? Will the egg of superstrimetion.	<ul> <li>J. 77% of Cross Persion is applicable to the familier or docessed employees on 10% years of more qualitying solvice in the busis of least pay drives.</li> <li>For mole than 15% years qualitying sources, unly gratuly will be paid (§ 1% basis pay Nice, of exception years as lea Pension Rulys, 1977 Chaoter.// Clause-1.</li> <li>For less Han, 65% years, qualitying service, noting will be paid to the tambles of decessed angloyees.</li> <li>As pecRaveed Alophant Pobley (2009).</li> <li>Wido of an employee who dies during tarkies with be silowed to retain chick of accurate residentia second models angloyee states and residentia second models and residentia second models alophant Pobley (2009).</li> </ul>	As approved by MEPC for the second se	C BOD, 100% pension to the crybyees as sor their leng drawn. In case of less the a deceased employees, ra service will be applicable.

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## PRIME MINISTER'S ASSISTANCE PACKAGE FUR FAMILIES GOVERNMENT EMPLOYEES WHO DE IN SERVICE PUC (CP-) / PF-PMAP(Vol-11)

It is submitted that revision of Assistance Package for families of deceased employee who die during service was issued by DG (HR) PEPCO WAPDA House, Lanore letter No. GM(HR)/HRD/A-332/4050-75 dated C4.11.2016.

MEPCO BOD in its 134<sup>th</sup> meeting held on 20.03.2018 against aganda item No.5(v) notified by Company Secretary MEPCO (Jultan letter No.24390-414 dated 02.04.2018 (F/A) adopted the said Assistance Package and Jurther desired to orepare a new amended MEPCO Policy and got it vetted by Director (Legal) ensuring that there will be no duplication of benefits and employees will not be deprived of any benefit which they are already availing and executive order has been issued vide this office order No.89-I/46059-81 dated 24.04.2013 (F/B).

The new amended MEPCO Policy duly velted by Director (Legal) MEPCO is placed at (F/C) as per MEPCO BOD decision circulated vide this office order dated 24.04.2018 is submitted for parusal of CEO MEPCO. So, the same may be circulated / disseminated to all lower formations under MEPCO or its implementation in true letter and spirit or otherwise; please.

40 DO (HRM)

financial

DG, (HR)

DMLA

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MULTAN ELECTRIC POW.

Tel: 061-9210380 Fax: 061-9220204 admn2section@yanco.com

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No 44453 CE/MEPCO/EA-II/

Finance Director, MEPCO H/Qs Multan.

# Attention: Assistant Manager (CP&) SUBJECT: - PRIME MINISTER'S ASSISTANCE PACKAGE FOR FAMILIES OF GOVERNMENT EMPLOYEES WHO DE IN SERVICE.

Copies of this office order No. 89-1/460 9-31 dated: 24.04.2018 regarding adoption of Prime Minister's Assistance Package for amilies of Government Employees who die in service alongwith minutes of meeting of MEPCO BOD meeting held on 20.03.2018 and draft of new amended MEPCO Policy alongwith scale wise abstract of died employees w.e.f. 04.11.2016 to date are enclosed herewith.

CEO MEPCO has desired to put op this case alongwith financial Implication before ECD for final approval.

Kindly provide financial implication as per scale wise data of the employee

annexed with this letter within 03 x days for further process, please.

## Matter Most Urgent

opy io:

1

(Rana Muhammad Sarfraz) Assistant Director (Admn) G MEPCO H/Qs Multan

- Deputy Manager (Safety) MEPCO H/Q. Multan with the advice to provide list of employees who died during service w.e.f 04.11.2016 to to-date directly to FD office with copy of information to this office without any delay.
- 2. Mr. Muhammad Imran, Team Leade ERP HCM Module. ERP Floor MEPCO H/Qs Multan for similar action.

3. Master File:



Letters - 2019

MULTAN ELECTRIC POM

e. 1# 051-9220095 r3x-061-9210380-84/2058, 2093

# No. /FDM/BS/Corp-Budget/ 1586

The Dy. Director (URM) MEPCO Ltd., Multan

## OFFICE OF 1 FINAMOR DISF Date: 10

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PRIME MINISTER'S ASSISTANCE PACEAGE FOR FAMILIES OF Subject: -GOVERNMENT EMPLOYEES WIND DIE IN SERVICE Deputy Director (HRM) MEPCO HQ letter \$6,4144/CEAMEPCO/EA-II dated:

Ref: -

# 22.07.2020 and No.11823 CE/MEPCO/EA-II dated \$7.08.2020

With reference to above referred letters and updated no. of depeased employees during service and criteria provided by HR Directorate, the updated financial implication excluding education, onetime payment and subsequent annual impact has been estimated for adoption of the Prime Minister's Assistance Package, as under please.

Rs. 2.044.611 (m) One-time payment Subsequent Annual Impact Rs. 740.029 (m)

The calculation is given below.

1. Lump Sum Grant (A) In case of natural death

			5 30 a 14	1 1 1 2 1 1 2 2 2 2
202	No of Final avees	Lump Sum Grant	Total Ar.	<u>cunt</u>
<u></u>	44	0.600	32.4	<u> </u>
<u> </u>	146	0.900	131	100
9-10 11-15	1113	1.200	135	300
$\frac{1(-1.)}{1(-1.7)}$	15	1.500	24.	<u>100</u>
10-17	1	2 400	9.6	<u>do</u>
18	4-7-73		333	000

Lump Sum Grant in case of fetal occident on live lines (latal actident) @ Rs 2.500 (Million)

		5.4.5
No. of Fotal occidents of MEPCO	Rate of Lump Sum	2 1 5 4 1
Employees From 04-11-2016 to date	Payment per Employe	Ameuni
24	2.500	85.000

The above grant has been enhanced to Rs.3.500 (M) w.e.f. 13-05-2019 vide CEO office letter No.115-I/45730-42 dated 13-05-2019 which may please be adjusted accordingly.

## 2. Pension

0 2 SEP

MAIN DINRY SECTION

The additional one time payment is estimated as Rs.64.528 (M) and subsequent annual additional impact is estimated as Rs.32.391 (m)

3. Accommodation

2028

	Sr. No.	BPS	No. of Employees	Entitlement	Standard Rent	Per Mo atin Ren	Anzsal Projection	3 Years Frojection
	1	1-4	56	F-Type	2,500	140, 300	1,680,000	5.040
ſ		5-10	165	E-Type	3,625	598,125	5 7,177,500	21.532
	3	11-16	133	D-Type	6,563	872,379	10.474,548	31.423
ļ	4	17-18	13	C-Type	20,700	269,100	3,229,200	9.688
	Total		367				22.561.248	67.684

Etta Samed that payment against accommodation will be allowed for previous period.

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#### Education

The number of children, class and estimated cost of educatio per child of deseased employses ray please be provided by HR & Adum, Edwarate.

#### Allotment of Plot

As approved by MEPCO BOD, payment of lump sum grant to widow / normince died in service Rein Millions in lieu of plot

A				Concerning and the second second second second second second second second second second second second second s
	BPS	No. of Employees	Lump Sum Grant	Total Amount
	1	132	2,800	264,000
	9.15	777	5.900	1,110.200
	1.72	17	7,000	91.000
		2/5		1,465.000
	10(3)	267	1	

#### 5. Employment

No additional expense / insplication is involved as there is no mange in existing policy regarding employment.

#### 7. Marriage Grant

As approved by MEPCO BOD marriage grant amounting to Rs.8 Lac on wedding of one Ra In Mill daughter.

<u> 5111-512</u>			TO and A second mit	Ammai Immaci
200	No of Employees	Lump Sum Grant	Jotal America	1 212 0.2000 - 112 0.000
010	140. 01 01.10.00 000		203 60.8	1 78.290
1 1 0	3.67	n 2000	293.0VF	
1-10 -				

Dote: It is assumed that deceased employee may have at least one unrearried daughter

### 8. Health

No additional implication is calculated as the health facility is per entitlement during service is same as in existing policy.

### 9. House Building Advance

No Additional expense /implication is involved because the criteria is same as per existing policy.

## 10. Nomination of an Officer as Council

No financial implication is involved.

11. Special Lump Sum Grant From Welfare Fund:

As no security related death is reported, therefore the financial projection may be treated as Nil.

## 12. Monthly Welfare Grant:

The monthly welfare grant is already being paid to benefic aries at the existing/proposed rate. Olence there will be no additional financial impact in welfare grant. However the annual impact of welfare grant payable to the deceased employees as per the list provided by H.R. Directorate is Rs.8.065 (M).

13. EP Fund

No additional financial implication is involved.

Manager Corporate Accounts

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## PRIME MINISTER'S ASSISTANCE PACKAGE COR FAMILIES GOVERNMENT EMPLOYEES WHO DIE 10 SERVICS PUC (CP-) / PF-PMAI- (Vol-11)

energy ( Charles )

It is submitted that revision of Assistance Prenkings for the rise of escaesed employee who die chaine service was issued by DO (HR) PEPOO WAPDA House, Labora letter No. CM (HR)/HRD/A-332-1050-75 dated C4.11.2016

MEPCO BOD in its 134<sup>er</sup> meeting held on 20.03 2018 against agendation 140.5(7) notified by Company Secretary MEPCO Multan latter No.22090-414 dated 02.04.2016 <u>(FrA)</u> adopted the said Assistance Package and Juther desired to prepare a new amanded MEPCO Policy and got it vetted by Director (Legal) ensuring that there will be no cuplication of benefits and employees will not be deprived of any benefit which they are a ready availing and executive order has been issued vide this office order No.89-1/46059-81 dated 24.04.2018 (FrB).

tunilies of deceased employees for grant of all facilities as per said Assistance Peckage and mying pending in this office due to non-implementation of said package.

The new amonded MEPCO Policy duly vetted bil Director (Lagal) MEPCO is placed at (F/C) as per MEPCU BOD decision circulated whe this (lifee order belod 24.04.2018 was received and put up for perusal of CEO MEPCO vide MP-37 to NR-44 and the then CEO MEPCO vide NP-42 given his remarks "pi put up in BCD alongwith financial implication for final appraival".

Finance Director MEPCO was requested to chovide the Ipanoial implication for adoption / implementation of said package the same has been received and placed at (7,0).

In view of above, following is submitted for decision / further orders:-

The new amended MEPCO policy duly velted by Director (Logal) MEPCO placed at (F/2) as ear MEPCO 800 decision taken in 134<sup>th</sup> meeting held on 20.03.2018 and circulated vide this office order No. 89-I/46053-61 dated: 24.04.2018 may be directed / disseminated to all lower formations under MEPCO for its implementation in true lefter & splint.

An item note may be prepared and presented pattere MEPCO BOD for its approval and implementation as per remarks of the then CEO MEPCO at Nr 42.

Submitted for perusal & further orders of CEO MEPCO, please. D.D (HRM) DOD medow viele F/A D.D (HRM) already accorded the PS virg. Estemated for Personal / protection for 105 106 D. D (HRM) erenner 10 l'ana 104 ab vei for consident and decision, plesa. Zalla/2 09 10 V ( THOM) 107 108. DG(HKK) whether the BOD Metric appropriate PM Assistance B14/0 Paskage was motified or not 7. 109- Qui (AARM). P.a. nepter 35/10/20 110. DD/HEAL) P.T. n

I'l Infjerred Deck ye has already been mitigrad vide 0/0 dated 24.04.2018 (F/2) NP # 104 (1') DR (i) mitmill of for 112 Herman M. 19/5 3.1/10/20 113 Dri 1/102m) DG (HR, M The precious order in this regard was conditional subject to preparing an comercided Palicy To ansid any supplication of Policy / benefils :- Hence, it is opportunite to take up the case with Bod tegetter frianciel inflications grien by F.D. Also, keep in wear direture of PEPCO regading inclusion of cost in terrif fatition and approval of NEPRA for the knows . A 3/1/20 Dir HRMI puter elouie. 115 27/10/20. 12/11 DD (HRM) + Levie official Kight Din ?!! No. 11780 Dated 04-11-020 ud/o 19.1252

# PYA PPP ADJUSTMENT (Supporting Documents)
### MULTAN ELECTRIC POWER COMPANY LTD.

QUARTERLY ADJUSTMENT OF 4th QUARTER OF F7 2019-20 (APRIL 2020 TO ILBJE 2020)

and a second second second second second second second second second second second second second second second			APRIL 202	20		MAY 2020					JUNE 2020					1
Description	Rof. Rate (Rs./KWh)	Units Purchased (MWh)	Amount Recovered (Min Rs.)	Actual 2111-d (Min Rs.)	(Over)/ Under Recovered (Min. Rs.)	Rof. (tate (Rs./KWh)	Units Purchased (N997h)	Amount Recovered (Mbr Rs.)	Actual Billed (986: 35.)	(Over)/ Under Recovered (Min. its.)	Rof. Rolo (7*./KWh)	Vaits Purchasod (MWh)	Amount Recovered (Win Rs.)	Actual Alliad (Min 8c.)	(Gver)/ Under Recovered (Min. Rs.)	TOTAL (Win De.)
wiable 080M	0,3218	1,373,55	476 19	392.83	(84.36)	0.2876	2,128.64	012.20	555 61	(57,60)	0.2905	0,280.78	014.84	1954,977	240 84	92
Capacity Charges	5.1746	1,473.55	7,620.02	13,303.92	5,378,90	4,5030	2,123.64	0,587.7->	74,889-30	5,293.51	4.227.3	2,289.75	2,079,00	1,283,28	4 58	15.546
Use of System Charges	0,3302	1,473,55	495,41	597.71	102.31	0.29%	2,128,84	828,39	865.47	17.77	0.2883	2,280,78	(490) 14	732.68	.27.2.53	4101
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123)			1		5,689.67					5,273.00					5,103,12	16,066
the country of the country where the country	<b>\$</b> 10 00000000000000000000000000000000000	<ol> <li>Mercel and a stability of the stability</li> </ol>														Consequences for the second second
1241244, С.1.9. 1418385				······									······································			(482)
YOAL Quarterly Adjus	ment			an an again the s			Maria againg the second second									15,584

Impact of Losses on FCA

FCA Determined

1	Apr-20	ədajr-20	3111.20
	(0.4482)	(0.6222)	(0.5372)
	221.03	319,30	343,47
	(99.07)	(198,70)	(184.51)

Galculation of FPA	$Am^{23}$	thay-30	Jun-20
Reference	5,2359	5.0457	5.1139
Actual	4,7877	4.4234	4.5758
FCA Requested by CPPA-0	(0,4480)	(9,6223)	(9.6372)



# MULTAN ELECTRIC POWER COMPANY LIMITED

Ph: # 061-9220095 PBX-061-9210380-84/2058, 2093 Fax: 061-9220116 OFFICE OF THE FINANCE DIRECTOR

Date 2 558.21

NO. /FDM/BS/Qtr-Adj/ 21194-98

The Registrar,

National Electric Power Regulatory Authority, NEPRA Tower, Ataturk Avenue, Sector G- 5/1, Islamabad

### Subject: - <u>ADDENDUM TO OUARTERLY POWER PURCHASE</u> PRICE ADJUSTMENT FOR 2<sup>rd</sup> OUARTER FY 2020-21.

Ref: - MEPCO letter No.FDM/BS/ Qtr-Adj /69-74/S dated: 15.01.2021.

With reference to the above, MEPCO filed  $2^{rd}$  Quarterly Tariff Adjustment amounting to Rs.6,573 (M) for the period October-2020 to December-2020 on the basis of available information and FCA requested by CPPA-G for the month of December 2020.

Now, the Authority has notified the FCA for the month of December 2020. Accordingly, MEPCO has revised its  $2^{ni}$  Quarterly Tariff Adjustment for FY 2020-21 (Annex-A) as per standard guidelines which comes to Rs.6,860 Million.

MEPCO requests the Authority to allow the Quarterly Adjustment of Rs. 6,860 Million for  $2^{nd}$  quarter of FY 2020-21.

DA/As above.

CC to:

- 1. Joint Secretary (PF), Ministry of Energy, Power Division, Islamabad.
- 2. The Director General Finance (FEPCO), 712-WAPDA House, Labore.
- 3. The Chiof Executive Officer, MEPCO Ltd. Multan.
- 4. The Chief Executive Officer (CPPA-G), Shaheen Plaza, Plot No.73-West, Fazal-e-Haq Road, Blue Area, Islamabad

### MULTAN ELECTRIC POWER COMPANY LTD. Power Purchase Price Periodic Adjustment For the 2nd Quarter of FY 2020-21 (October 2020 to December 2020)

DESCRIPTION       Reference       Units       Amount       Actual Billou       Under       Reference       Units       Amount       Actual Billou       Uni	TOTAL Min Rs.)
Variable GeM 1 0.2402 1,592.01 384.03 761.29 377.21 0.2269 1,903.18 227.52 250.39 27.77 0.2838 972.08 275.38 205.11 20.21	430
Condity Charges 5.7460 1,595.01 0,787.90 9,656.36 (151.54) 7,4499 1,093.05 7,442.57 9,982.00 2,509,42 6,4232 972.03 6,244.84 9,310.25 3,066.41	5,424 }
Use of System Charges 0.3624 1,599.01 579.48 745.65 166.17 0.4376 1.003.18 448.79 674.98 266.15 0.3949 972.08 383.87 647.35 262.48	596
TOYAL 2,698.39 2,360.12	6,459

impact Of Losses on FCA

TOTAL PPP Adjustment (Min. Rs.)

IMPACT OF LOSSES ON FCA

*Description	Oct-20	Nov-20	Dec-20
FCA Determined	0.2925	0.7596	1.5359
Losses Allowed (MKWH)	239.85	150.48	145.81
Impact (Million Rs.)	70.16	115.81	223.95

FINANCE DIRECTOR, MEPCO

23,0

6,850

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### MULTAN ELECTRIC POWER COMPANY LTD.

### QUARTERLY ADJUSTMENT OF 1st QUARTER OF FY 2020-21 (HIL-SEP. 2020) (AFTER INCORPORATION OF DEPERMENED FCA 09/7020)

JULY X 2020					AUCUST 2020				SEPTEMDER 2020							
i Dosorindon L	Rai, Aate (Sc./LWh)	Amita Puncharad (iMWIa)	Amount Azcoverad (Min Rs.)	Actual Diller) (Min Re.)	iGver)/ Under Encovered (Win. Rs.)	Rof. Note (No./XV/c)	tintis Perchand (pavilij	Amouns (tecnessed) (ittin tts.)	Actual Dillad (Mice Stat)	(Over)/ Ander Recovered (Rela, Re.)	<b>Hof.</b> Cato Sta Astrony	Units Patronamed (MWh)	Amount Beconcred (Min 117-)	Ar termi Bilder (1 Filislen (17)	(Ovar)/ 1toper Svan-mostori (MAN1. Rs.)	<b>TOTAL</b> (149-13-1)
Wariable OR M	0.2390	2,483.15	094.22	701.23	100.02	0,2332	2,040.20	817.83	671 23	375-35	<b>e</b> .c. O	151.23	485 10	- 6995 1.1	210 39 3	
Starwardy Changes	1.1629	2,48.5.15	11,777.31	12,215.165	4343.57	4.6759	2,883,25	12,847.78	10,400.58	2,65.30	M.C	2,421,034	10,100,10	1121	1 14: 20	
User of System Charges	0844	2,483.25	706.21	338.29	15,2,74	0.3654	2,646.09	1245 - 1257 1267 - 16, 727	a59 11	्य के प्रदेश	9.000	2,491.00	644.37		1.20	441
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Impact of Losses on FCA

	Jul-20	Aang-20	39p-20
	372.47	397,24	327.25
1	311.98	191.79	364.50

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MULTAN ELECTRIC POWER COMPANY LIMITE

Ph: # 061-9220095 PBX-061-9210380-84/2058, 2093 Fax: 061-9220116 OFFICE OF THE FINANCE DIRECTOR

Date 6 05.020

NO. /FDM/BS/Qtr-Adj/\_/4577-81

The Registrar, National Electric Power Regulatory Authority, NEPRA Tower, Ataturk Avenue, Sector G- 5/1, Islamabad

PRICE PURCHASE OUARTERLY FOWER ADDENDUM TO Subject: -ADJUSTMENT FOR FY 2020-21.

Ref: - MEPCO letter No.FDM/BS/ Qtr-Adj /10222-26 dated: 03.11.2020.

With reference to the above, MEPCO filed 1<sup>st</sup> Quarterly Tariff Adjustment amounting to Rs.7,091 (M) for the period July-2020 to September-2020 on the basis of available information of FCA requested by CPPA-G for the month of August and September 2020.

Now, the Authority has notified the FCA for the said months. Accordingly, MEPCO has revised its 1<sup>st</sup> quarterly Tariff Adjustment for FY 2020-21 as per standard guidelines which comes to Rs.6.809 Million.

MEPCO requests the Authority to allow the Quarterly Adjustment of Rs. 6,809 Million for  $1^{st}$  quarter of FY 2020-21.

DA/As above.

ALI MUHA Finance Director

CC to:

- 1. The Joint Secretary (PF), Ministry of Energy, Power Division, Islamabad.
- 2. The Director General Finance (PEPCO), 712-WAPDA House, Lahore.
- 3. The Chief Executive Officer, MEPCO Ltd. Multan.
- 4. The Chief Executive Officer (CPPA-G), Shaheen Plaza, Plot No.73-West, Fazal-e-Haq Road, Blue Area, Islamabad

# MEPCO GARANCIAL STATEMENTS

# (FY 2017-18 TO 2019-20)



# MULTAN ELECTRIC POWER COMPANY LIMITED

# FINANCIAL STATEMENTS WITH ACCOMPANYING INFORMATION

30 JUNE 2020



Riaz Ahmad & Company

Chartered Accountants

560-F. Raja Road, Gulistan Colony Faisalabad 38000, Pakistan T: +92 (41) 886 10 42, 886 36 44 F: +92 (41) 886 36 11 racofsd@racopk.com www.racopk.com

### **INDEPENDENT AUDITOR'S REPORT**

### To the members of Multan Electric Power Company Limited

### Report on the Audit of the Financial Statements

### Opinion

We have audited the annexed financial statements of Multan Electric Power Company Limited (the Company), which comprise the statement of financial position as at 30 June 2020, and the statement of profit or loss, the statement of comprehensive income, the statement of changes in equity, the statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies and other explanatory information, and we state that we have obtained all the information and explanations which, to the best of our knowledge and belief, were necessary for the purposes of the audit.

In our opinion and to the best of our information and according to the explanations given to us, the statement of financial position, the statement of profit or loss, the statement of comprehensive income, the statement of changes in equity and the statement of cash flows together with the notes forming part thereof conform with the accounting and reporting standards as applicable in Pakistan and give the information required by the Companies Act, 2017 (XIX of 2017), in the manner so required and respectively give a true and fair view of the state of the Company's affairs as at 30 June 2020 and of the profit, other comprehensive income, the changes in equity and its cash flows for the year then ended.

### **Basis for Opinion**

We conducted our audit in accordance with International Standards on Auditing (ISAs) as applicable in Pakistan. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the Company in accordance with the International Ethics Standards Board for Accountants' *Code of Ethics for Professional Accountants* as adopted by the Institute of Chartered Accountants of Pakistan (the Code) and we have fulfilled our other ethical responsibilities in accordance with the Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

### **Emphasis of Matter**

We draw attention to the following matters:

a) Note 12.1.1 to the financial statements, which states that the Company has not recognized the impact of debit notes issued by Central Power Purchasing Agency (Guarantee) Limited (CPPA) for supplementary charges, being the mark-up charged on CPPA by Independent Power Producers (IPPs) on account of delayed payments, aggregating to Rupees 16,357.33 million.



# Riaz Ahmad & Company

Chartered Accountants

- b) Note 12.1.2 to the financial statements, interest on workers' profit participation fund amounting to Rupees 1,837.72 million was not accounted for by the Company. Moreover, workers' profit participation fund along with related interest was not paid to the workers due to pending decision of Economic Coordination Committee to exempt the corporatized entities under the umbrella of WAPDA.
- c) Note 12.1.4 to the financial statements describes various matters regrading tax contingencies the ultimate outcome of which cannot be presently determined hence no provision for the same has been made in accompanying financial statements.

Our opinion is not modified in respect of these matters.

### Information Other than the Financial Statements and Auditor's Report Thereon

Management is responsible for the other information. The other information comprises the information included in the annual report, but does not include the financial statements and our auditor's report thereon.

Our opinion on the financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

# Responsibilities of Management and Board of Directors for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the accounting and reporting standards as applicable in Pakistan and the requirements of Companies Act, 2017 (XIX of 2017) and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Board of directors are responsible for overseeing the Company's financial reporting process.

Chartered Accountants

### Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs as applicable in Pakistan will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with ISAs as applicable in Pakistan, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with the board of directors regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

# Riaz Ahmad & Company

Chartered Accountants

### **Report on Other Legal and Regulatory Requirements**

Based on our audit, we further report that in our opinion:

- a) proper books of account have been kept by the Company as required by the Companies Act, 2017 (XIX of 2017);
- b) the statement of financial position, the statement of profit or loss, the statement of comprehensive income, the statement of changes in equity and the statement of cash flows together with the notes thereon have been drawn up in conformity with the Companies Act, 2017 (XIX of 2017) and are in agreement with the books of account and returns;
- c) investments made, expenditure incurred and guarantees extended during the year were for the purpose of the Company's business; and
- d) no Zakat was deductible at source under the Zakat and Usher Ordinance, 1980 (XVIII of 1980)

The engagement partner on the audit resulting in this independent auditor's report is Liaqat Ali Panwar.

hike Almad & co. **RIAZ AHMAD & COMPANY** Chartered Accountants Faisalabad

Date: 0 6 OCT 2020

### MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF FINANCIAL POSITION AS AT 30 JUNE 2020

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	NOTE	2020 RUPEES	2019 RUPEES	2018 RUPEES	ACCETC	NOTE	2020 RUPEES	2019 RUPEES	2018 RUPEES
EQUITY AND LIABILITIES			Restated	Restated	AJJLIJ				
SHARE CAPITAL AND RESERVES									
Authorized share capital		• ·			NON-CURRENT ASSETS				
5 000 000 000 (2019: 5 000 000 000) ordinary									
shares of Rupees 10 each		50,000,000,000	50,000,000,000	50,000,000,000					
					Property, plant and equipment	13	_ 117,672,020,684	108,889,817,854	100,028,337,227
Issued, subscribed and paid up share capital	3	10,823,636,048	10,823,636,048	10,823,636,048	Intangible asset	14 ´	-	_10,101,690	27,397,086
Deposit for shares	4	31,337,632,169	31,337,632,169	30,590,260,624	Long term advances	15	81,394,604	80,630,425	76,959,810
Accumulated loss		(127,536,887,153)	(133,587,076,083)	(106,192,058,629)	Long term deposits	16	49,185	49,185	49,185
Total equity		(85,375,618,936)	(91,425,807,866)	(64,778,161,957)		-	117 757 464 477	100 000 500 154	100 122 242 200
LIABILITIES							117,755,404,475	100,980,999,194	100,132,743,308
NON-CURRENT LIABILITIES					CURRENT ASSETS				
Long term financing	5	8,117,630,545	8,811,426,965	9,234,627,888	Stores and spare parts	17	6,328,680,702	8,103,425,849	5,763,585,227
Staff retirement benefits	6	80,582,683,869	79,175,417,563	70,394,154,272	Trade debts	18	51,201,853,926	29,489,190,947	39,154,330,754
Long term security deposits	7	10,179,383,631	9,179,842,474	8,164,534,805	Loans and advances	19	320,793,215	349,920,881	411,795,054
Receipt against deposit works	8	25,803,025,352	20,722,976,017	20,448,934,978	Other receivables	20	94,228,676,437	57,164,705,281	57,697,402,536
Deferred credit	9	59,724,026,331	57,194,876,289	52,220,167,587	Tax refunds due from Government	21	4,621,111,602	6,679,287,571	10,673,864,099
Deferred mark-up		-	- ]	626,688,464	Accrued Interest		157,817,812	103,482,195	48,504,557
		184,406,749,728	175,084,539,308	161,089,107,994	Cash and bank balances	22 [	17,367,926,676	10,457,887,798	10,220,738,570
CURRENT LIABILITIES							174,226,860,370	112,347,900,522	123,970,220,797
Trade and other payables	10	174.852.741.194	123.000.632.069	116.154.515.079	1				
Accrued mark-up	11	10,788,639,164	9,292,966,980	7,164,857,708					
Current portion of long term financing	5	6,031,857,596	5,376,169,185	4,472,645,281					
Provision for taxation		1,275,956,097	-						
		192,949,194,051	137,669,768,234	127,792,018,068					
TOTAL LIABILITIES		377,355,943,779	312,754,307,542	288,881,126,062					
CONTINGENCIES AND COMMITMENTS	12								
TOTAL EQUITY AND LIABILITIES		291,980,324,843	221,328,499,676	224,102,964,105	TOTAL ASSETS	-	291,980,324,843	221,328,499,676	224,102,964,105
The annexed notes form an integral part of these fi	inancial st	tatements.						, DIRECTOR	

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### MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF PROFIT OR LOSS FOR THE YEAR ENDED 30 JUNE 2020

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	NOTE	2020 RUPEES	2019 RUPEES Restated
SALES OF ELECTRICITY - NET	23	199,343,165,359	165,347,625,359
TARIFF DIFFERENTIAL SUBSIDY	24	79,587,951,363	69,964,631,669
		278,931,116,722	235,312,257,028
COST OF ELECTRICITY	25	(248,407,080,166)	(225,725,413,330)
GROSS PROFIT		30,524,036,556	9,586,843,698
AMORTIZATION OF DEFERRED CREDIT	9	2,952,291,619	2,758,528,394
		33,476,328,175	12,345,372,092
OPERATING EXPENSES EXCLUDING DEPRECIATION			
AND AMORTIZATION	26	(28,622,813,514)	(31,940,190,116)
DEPRECIATION ON OPERATING FIXED ASSETS	13.3	(5,121,211,315)	(4,693,124,291)
AMORTIZATION ON INTANGIBLE ASSET	14	(10,101,690)	(17,295,396)
		(33,754,126,519)	(36,650,609,803)
LOSS FROM OPERATIONS		(277,798,344)	(24,305,237,711)
OTHER INCOME	27	4,141,557,469	3,812,922,702
FINANCE COST	28	(2,211,859,833)	(2,310,169,241)
PROFIT / (LOSS) BEFORE TAXATION		1,651,899,292	(22,802,484,250)
TAXATION	29	(1,275,956,097)	-
PROFIT / (LOSS) AFTER TAXATION		375,943,195	(22,802,484,250)
EARNINGS / (LOSS) PER SHARE - BASIC	30	0.35	(21.07)
EARNINGS / (LOSS) PER SHARE - DILUTED	30	0.09	(5.41)

The annexed notes form an integral part of these financial statements.

CHIEF EXECUTIVE OFFICER

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, DIRECTOR

### MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDED 30 JUNE 2020

	2020 RUPEES	2019 RUPEES Restated
PROFIT / (LOSS) AFTER TAXATION	375,943,195	(22,802,484,250)
OTHER COMPREHENSIVE INCOME / (LOSS)		
Items that will not be reclassified subsequently to profit or loss: Remeasurements of defined benefit obligations	5,674,245,735	(4,592,533,204)
Items that may be reclassified subsequently to profit or loss	-	-
Other comprehensive income / (loss) for the year	5,674 <b>,</b> 245,735	(4,592,533,204)
TOTAL COMPREHENSIVE INCOME / (LOSS) FOR THE YEAR	6,050,188,930	(27,395,017,454)

The annexed notes form an integral part of these financial statements.

CHIEF EXECUTIVE OFFICER

### MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 30 JUNE 2020

	SHARE CAPITAL	DEPOSIT FOR SHARES	ACCUMULATED LOSS	TOTAL EQUITY
	ten an an the set of t	n mit all uit for the field of the field the f	RUPEES	\$
Balance as at 30 June 2018	10,823,636,048	30,590,260,624	(106,224,501,798)	(64,810,605,126)
Impact of restatement - Note 11.1		-	32,443,169	32,443,169
Balance as at 30 June 2018 - restated	10,823,636,048	30,590,260,624	(106,192,058,629)	(64,778,161,957)
Non-cash settlement against deposit for shares		747,371,545		747,371,545
Loss for the year - restated		-	(22,802,484,250)	(22,802,484,250)
Other comprehensive loss for the year		-	(4,592,533,204)	(4,592,533,204)
Total comprehensive loss for the year - restated	-	-	(27,395,017,454)	(27,395,017,454)
Balance as at 30 June 2019 - restated	10,823,636,048	31,337,632,169	(133,587,076,083)	(91,425,807,866)
Profit for the year Other comprehensive income for the year		-	375,943,195 5,674,245,735	375,943,195 5,674,245,735
Balance as at 30 June 2020	10,823,636,048	- 31,337,632,169	6,050,188,930	(85,375,618,930)

The annexed notes form an integral part of these financial statements.

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CHIEF EXECUTIVE OFFICER

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### MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 30 JUNE 2020

	NOTE	2020 RUPEES	2019 RUPEES
CASH FLOWS FROM OPERATING ACTIVITIES			
<b>Cash generated from operations</b> Finance cost paid Staff retirement benefits paid Payment for Fund contribution regarding pension obligation Net decrease / (increase) in long term advances	31	12,860,153,660 (4,905,299) (4,469,675,503) (681,651,671) 3,759,420	7,901,805,194 (4,452,579) (4,329,892,086) (160,224,720) (2,423,799)
Net cash generated from operating activities		7,707,680,607	3,404,812,010
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditure on property, plant and equipment Profit on bank deposits received		(13,886,727,969) 1,566,162,096	(13,439,008,582) 768,437,015
Net cash used in investing activities		(12,320,565,873)	(12,670,571,567)
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from long term financing Repayment of long term financing Consumers' security deposits received Receipt against deposit works-net		- (38,108,009) 999,541,157 10,561,490,996	554,481,341 (74,158,360) 1,015,307,669 8,007,278,135
Net cash from financing activities		11,522,924,144	9,502,908,785
NET INCREASE IN CASH AND CASH EQUIVALENTS		6,910,038,878	237,149,228
CASH AND CASH EQUIVALENTS AT THE BEGINNING OF THE YEAR		10,457,887,798	10,220,738,570
CASH AND CASH EQUIVALENTS AT THE END OF THE YEAR (NOTE 22)		17,367,926,675	10,457,887,798

The annexed notes form an integral part of these financial statements.

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CHIEF EXECUTIVE OFFICER

DIRECTOR

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### MULTAN ELECTRIC POWER COMPANY LIMITED NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 30 JUNE 2020

### 1. THE COMPANY AND ITS ACTIVITIES

- 1.1 Multan Electric Power Company Limited (the Company) is a public limited company incorporated in Pakistan under the repealed Companies Ordinance, 1984 (now Companies Act, 2017). The Company was established to takeover all the properties, rights, assets, obligations and liabilities of Multan Area Electricity Board (MAEB) owned by Pakistan Water and Power Development Authority (WAPDA) and such other assets and liabilities as agreed. The Company was incorporated on 14 May 1998 and commenced operation on 09 June 1998. Its registered office is situated at Shahrah-e-Quaid-e-Azam, WAPDA House, Lahore. The principal place of business of the Company is located at Khanewal Road, Multan. While the Company have various 132-KV and 66-KV grid stations along with other offices located in 13 districts of South Punjab including Multan, Pakpattan, Sahiwal, Khanewal, Bahawalnagar, Bahawalpur, Rahim Yar Khan, Lodhran, Dera Ghazi Khan, Layyah, Muzaffargarh, Rajanpur and Vehari. The principal activity of the Company is distribution and supply of electricity to public within defined geographical boundaries.
- 1.2 Ministry of Energy, Government of Pakistan vide S.R.O. 667(I)/2019 dated 28 June 2019 has allowed an amount of Rupees 34,633 million as quarterly adjustment on account of Power Purchase Cost relating to first half of financial year 2018-19, which will be recovered in next fifteen months after year end. However, an amount of Rupees 26,367 million has been recovered during the year and remaining amount of Rupees 8,266 million has to be recovered in next 3 months after year end. Federal Government notified vide S.R.O.1170(I)/2019 the adjustment in the approved tariff, on account of annual indexation / adjustment of distribution margin and periodic adjustment for the 3rd and 4th Quarters of FY 2018-19 with immediate application of Rupees 4,791 million and 5,495 million respectively. However, an amount of Rupees 2,883 million in respect of Annual Indexation and amount of Rupees 3,306 million has been recovered during the year and remaining amounts of Rupees 1,908 million and 2,189 million respectively has to be recovered in the next 3 months after year end. Federal Government notified vide S.R.O.1474(I)2019 the adjustment in the approved tariff, on account of periodic adjustment for 1st Quarter of FY 2019-20 of Rupees 1,428 million. However an amount of Rupees 672 million has been recovered during the year and remaining amount of Rupees 756 million has to be recovered in the next 5 months after the year end. If these adjustments had been allowed in the respective years, the revenue for years ended 30 June 2019 and 30 June 2020 would have been increased by Rupees 44,919 million and Rupees 756 million respectively. Consequently, accumulated loss would have been reduced by Rupees 13,119 million.

### 1.3 Impact of COVID-19 on these financial statements

The pandemic of COVID-19 which rapidly spread all across the world has not only endangered human lives but has also adversely impacted the global economy. From 24 March 2020, Government of Punjab announced a temporary lockdown as a measure to reduce the spread of COVID-19. Lockdown impacted the purchasing power of general public so, the Government of Pakistan issued a Prime Minister's Relief Package for Small and Medium Enterprises (SMEs) and a package for domestic consumers. Under the package for SMEs, the Government of Pakistan will bear relief allowed to commercial and industrial consumers. In this regard, the Company has Rupees 3.988 billion receivable from Government of Pakistan at the reporting date. Under the relief package to domestic consumers the bills are collectible in three installments due to which the Company has deferred amount against the consumers of Rupees 13.417 billion. The total recoverability deferred under these packages amounted to Rupees 17.405 billion. Apart from these, according to management's assessment there is no other significant accounting impact of these effects of COVID-19 in these financial statements.

### 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The significant accounting policies applied in the preparation of these financial statements are set out below. These policies

### 2.1 Basis of preparation

### a) Statement of compliance

These financial statements have been prepared in accordance with the accounting and reporting standards as applicable in Pakistan. The accounting and reporting standards applicable in Pakistan comprise of:

- International Financial Reporting Standards (IFRSs) issued by the International Accounting Standards Board (IASB) as notified under the Companies Act, 2017; and

- Provisions of and directives issued under the Companies Act, 2017.

Where provisions of and directives issued under the Companies Act, 2017 differ from the IFRSs, the provisions of and directives issued under the Companies Act, 2017 have been followed.

### b) Accounting convention

These financial statements have been prepared under the historical cost convention except as otherwise stated in the respective accounting policies.

### c) Critical accounting estimates and judgments

The preparation of financial statements in conformity with the approved accounting standards requires the use of certain critical accounting estimates. It also requires the management to exercise its judgment in the process of applying the Company's accounting policies. Estimates and judgments are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The areas where various assumptions and estimates are significant to the Company's financial statements or where judgments were exercised in application of accounting policies are as follows:

### Useful lives, patterns of economic benefits and impairments

Estimates with respect to residual values and useful lives and pattern of flow of economic benefits are based on the analysis of the management of the Company. Further, the Company reviews the value of assets for possible impairment on annual basis. Any change in the estimates in the future might affect the carrying amount of respective item of property, plant and equipment, with a corresponding effect on the depreciation charge and impairment.

### Provision for obsolescence of stores and spare parts

The Company reviews the carrying amount of stores and spare parts on regular basis and provision for obsolescence is made if there is any change in usage pattern and physical form of stores and spare parts.

### Taxation

In making the estimates for income tax currently payable by the Company, the management takes into account the current income tax law and the decisions of appellate authorities on certain issues in the past. Instances where the Company's views differ from the views taken by the income tax department at the assessment stage and where the Company considers that its view on items of material nature is in accordance with law, the amounts are shown as contingent liabilities.

### Allowance for expected credit losses

The allowance for expected credit losses assessment requires a degree of estimation and judgement. It is based on the lifetime expected credit loss, based on the Company's experience of actual credit loss in past years.

### Revenue from contracts with customers involving sale of goods

When recognizing revenue in relation to the sale of goods to customers, the key performance obligation of the Company is considered to be the point of delivery of the goods to the customer, as this is deemed to be the time that the customer obtains control of the promised goods and therefore the benefits of unimpeded access.

### Staff retirement benefits

The Company operates funded pension scheme, unfunded free electricity scheme and unfunded free medical facility scheme for all its employees along with entitlement for accumulated compensated absences which are encashed at the time of retirement upto maximum limit of 365 days. The calculation of the benefits requires assumptions to be made of future outcomes, the principal ones being in respect of increase in salary and the discount rates used to convert future cash flows to current values. The assumptions used for the plans are determined by independent actuary on annual basis. The amount of the expected return on plan assets is calculated using the expected rate of return for the year. Calculations are sensitive to changes in the underlying assumptions. The figure of staff retirement benefit liabilities primarily represents the increase in actuarial present value of the obligations for benefits earned on employee service during the year and the interest on the obligations in respect of employee service in previous years, net of the respected return on plan assets.

# d) Interpretation and amendments to published approved accounting standards that are effective in current year and are relevant to the Company

Following interpretation and amendments to published approved accounting standards are mandatory for the Company's accounting periods beginning on or after 01 July 2019:

- Amendments to IFRS 09 'Financial Instruments'
- IFRIC 23 'Uncertainty over Income Tax Treatments'
- Amendments to IAS 19 'Employee Benefits' Plan Amendment, Curtailment or Settlement
- Annual Improvements to IFRSs: 2015 2017 Cycle

The amendments and interpretation listed above do not have any impact on the amounts recognized in prior periods and are not expected to significantly affect the current or future periods.

### e) Standards and amendments to published approved accounting standards that are effective in current year but not relevant to the Company

There are other standards and amendments to published approved accounting standards that are mandatory for accounting periods beginning on or after 01 July 2019 but are considered not to be relevant or do not have any significant impact on the Company's financial statements and are therefore not detailed in these financial statements.

# f) Amendments to published approved accounting standards that are not yet effective but relevant to the Company

Following amendments to existing standards have been published and are mandatory for the Company's accounting periods beginning on or after 01 July 2020 or later periods:

Interest Rate Benchmark Reform which amended IFRS 7 'Financial Instruments: Disclosures', IFRS 9 'Financial Instruments' and IAS 39 'Financial Instruments: Recognition and Measurement', is applicable for annual financial periods beginning on or after 01 January 2020. The G20 asked the Financial Stability Board (FSB) to undertake a fundamental review of major interest rate benchmarks. Following the review, the FSB published report setting out its recommended reforms of some major interest rate benchmarks such as Interbank Offer Rates (IBORs). Public authorities in many jurisdictions have since taken steps to implement those recommendations. This has in turn led to uncertainty about the long-term viability of some interest rate benchmarks. In these amendments, the term 'interest rates benchmark rate, such as that resulting from the FSB's recommendations set out in its July 2014 report 'Reforming Major Interest Rate Benchmarks' (the reform). The amendments made provide relief from the potential impacts of the uncertainty caused by the reform. A company shall apply these exceptions to all hedging relationships directly affected by interest rate benchmark reform. However, the amendments are not likely to affect the financial statements of the Company.

Amendments to IAS 1 'Presentation of Financial Statements' and IAS 8 'Accounting Policies, Changes in Accounting Estimates and Errors' (effective for annual periods beginning on or after 01 January 2020). The amendments are intended to make the definition of material in IAS 1 easier to understand and are not intended to alter the underlying concept of materiality in IFRSs. In addition, the IASB has also issued guidance on how to make materiality judgments when preparing their general purpose financial statements in accordance with IFRSs.

Amendments to IAS 1 'Presentation of Financial Statements' (effective for annual periods beginning on or after 01 January 2022). These amendments have been added to further clarify when a liability is classified as current. These amendments also amend the aspect of classification of liability as non-current by requiring the assessment of the entity's right at the end of the reporting period to defer the settlement of liability for at least twelve months after the reporting period. An entity shall apply these amendments retrospectively in accordance with IAS 8. The amendments are not likely to affect the financial statements of the Company.

Amendments to IAS 37 'Provisions, Contingent Liabilities and Contingent Assets' (effective for annual periods beginning on or after 01 January 2022). These amendments clarify what comprise the cost of fulfilling a contract. Cost of fulfilling a contract is relevant when determining whether a contact is onerous. An entity is required to apply the amendments to contracts for which it has not yet fulfilled all its obligations at the beginning of the annual reporting period in which it first applies the amendments (the date of initial application). Restatement of comparative information is not required, instead the amendments require an entity to recognize the cumulative effect of initially applying the amendments as an adjustment to opening balance of retained earnings or other component of equity, as appropriate, at the date of initial application. However, the amendments are not likely to affect the financial statements of the Company.

Amendments to IAS 16 'Property, Plant and Equipment' (effective for annual periods beginning on or after 01 January 2022). These amendments clarify that sales proceeds and cost of items produced while bringing an item of property, plant and equipment to the location and condition necessary for it to be capable of operating in the manner intended by management, are recognized in profit or loss in accordance with applicable standards. The entity measures the cost of those items applying the measurement requirements of IAS 2 'Inventories'. The standard also removes the requirement of deducting the net sales proceeds from cost of testing. An entity shall apply these amendments retrospectively, but only to items of property, plant and equipment which are brought to the location and condition necessary for them to be capable of operating in the manner intended by management on or after the beginning of the earliest period presented in the financial statements in which the entity first applies the amendments. The entity shall recognize the cumulative effect of initially applying the amendments as an adjustment to the opening balance of retained earnings (or other component of equity, as appropriate) at the beginning of that earliest period presented. However, the amendments are not likely to affect the financial statements of the Company.

On 14 May 2020, IASB issued Annual Improvements to IFRSs: 2018 - 2020 Cycle, incorporating amendments to three IFRSs more specifically in IFRS 9 'Financial Instruments', relevant to the Company. The amendments clarify that an entity includes only fees paid or received between the entity (the borrower) and the lender, including fees paid or received by either the entity or the lender on the other's behalf, when it applies the '10 percent' test in paragraph B3.3.6 of IFRS 9 in assessing whether to dè-recognize a financial liability. These amendments are effective for annual periods beginning on or after 01 January 2022 and are not likely to have an impact on Company's financial statements.

On 29 March 2018, the IASB has issued a revised Conceptual Framework. The new Framework: reintroduces the terms stewardship and prudence; introduces a new asset definition that focuses on rights and a new liability definition that is likely to be broader than the definition it replaces, but does not change the distinction between a liability and an equity instrument; removes from the asset and liability definitions references to the expected flow of economic benefits—this lowers the hurdle for identifying the existence of an asset or liability and puts more emphasis on reflecting uncertainty in measurement; discusses historical cost and current value measures, and provides some guidance on how the IASB would go about selecting a measurement basis for a particular asset or liability; states that the primary measure of financial performance is profit or loss, and that only in exceptional circumstances will the IASB use other comprehensive income and only for income or expenses that arise from a change in the current value of an asset or liability; and discusses uncertainty, de-recognition, unit of account, the reporting entity and combined financial statements. The Framework is not an IFRS and does not override any standard, so nothing will change in the short term. The revised Framework will be used in future standard-setting decisions, but no changes will be made to current IFRSs. Preparers might also use the Framework to assist them in developing accounting policies where an issue is not addressed by an IFRS. It is effective for annual periods beginning on or after 01 January 2020 for preparers that develop an accounting policy based on the Framework.

# g) Standards and amendments to published approved accounting standards that are not yet effective and not considered relevant to the Company

There are other standards and amendments to published approved accounting standards that are mandatory for accounting periods beginning on or after 01 July 2020 but are considered not to be relevant or do not have any significant impact on the Company's financial statements and are therefore not detailed in these financial statements.

### 2.2 Functional and presentation currency along with foreign currency transactions and translation

These financial statements have been presented in Pak Rupees, which is the Company's functional and presentation currency. All monetary assets and liabilities in foreign currencies are translated into Pak Rupees at exchange rates prevailing at the reporting date. Transactions in foreign currencies are initially recorded at exchange rates prevailing at the dates of the transactions. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year end exchange rates of monetary assets and liabilities denominated in foreign currencies are charged or credited to statement of profit or loss.

### 2.3 Staff retirement benefits

### 2.3.1 Defined benefit plans

The Company provides funded pension scheme, an unfunded free electricity scheme and an unfunded free medical facility scheme for all its employees. Further, the Company's employees are also entitled for accumulated compensated absences which are encashed at the time of retirement upto maximum limit of 365 days. The company's obligations under these schemes are determined annually by a qualified actuary using projected unit Credit Actuarial Cost Method. latest actuarial valuations have been carried on 30 June 2020. The company's net obligation in respect of defined benefits plans is calculated by estimating the amount of future benefits that employees have earned in the current and prior periods, discounting that amount and deducting the fair value of any plan assets. Past service cost is recognized immediately in the statement of profit or loss.

Remeasurement of the net defined benefit liability (except for compensated absences), which comprises actuarial gains and losses, the return on plan assets (excluding interest) and the effect of the asset ceiling (if any, excluding interest), are recognized immediately in other comprehensive income. The Company determines the net interest expense on the net defined benefit liability for the period by applying the discount rate used to measure the defined benefit obligation at the beginning of the annual period to the then-net defined benefit liability, taking into account any changes in the net defined benefit liability during the period as a result of contributions and benefits payments. Net interest expense and other expenses related to defined benefit plan is recognized in profit or loss. Remeasurement related to the compensated absences is recognized in the year of eccurrence in the statement of profit or loss.

### 2.3.2 General / Employees' Provident Fund

For General / Employees' Provident Fund and WAPDA Welfare Fund, the Company makes deduction from salaries of the employees and remits these amounts to the funds established by WAPDA. The provident fund related disclosure required by the Companies Act, 2017 is not shown in these financial statements as General / Employees' Provident Fund established by WAPDA includes the employees of other power distribution and generation companies and the Company's share cannot be segregated from the whole General / Employees' Provident Fund.

### 2.4 Taxation

### Current

Provision for current tax is based on the taxable income for the year determined in accordance with the prevailing law for taxation of income. The charge for current tax is calculated using prevailing tax rates or tax rates expected to apply to the profit for the year, if enacted. The charge for current tax also includes adjustments, where considered necessary, to provision for tax made in previous years arising from assessments framed during the year for such years.

### Deferred

Deferred tax is accounted for using the liability method in respect of all temporary differences arising from differences between the carrying amount of assets and liabilities in the financial statements and the corresponding tax bases used in the computation of the taxable profit. Deferred tax liabilities are generally recognized for all taxable temporary differences and deferred tax assets to the extent that it is probable that taxable profits will be available against which the deductible temporary differences, unused tax losses and tax credits can be utilized.

Deferred tax is calculated at the rates that are expected to apply to the period when the differences reverse based on tax rates that have been enacted or substantively enacted by the reporting date. Deferred tax is charged or credited in the statement of profit or loss, except to the extent that it relates to items recognized in other comprehensive income or directly in equity. In this case, the tax is also recognized in other comprehensive income or directly.

### 2.5 Property, plant, equipment and depreciation

### a) Cost

Operating fixed assets are stated at cost less accumulated depreciation and any identified impairment loss, except freehold land which is stated at cost less any identified impairment loss and leasehold land which is stated at cost less accumulated depreciation and any identified impairment loss. Capital work-in-progress is stated at cost less any recognized impairment loss. This includes all costs connected with specific assets (including borrowing cost) incurred during installation and construction period. These are transferred to specific assets as and when these assets are available for intended use. Cost of operating fixed assets consists of historical cost, borrowing cost pertaining to the erection / construction period of qualifying assets and directly attributable costs of bringing the assets to working condition for their intended use.

Major renewals and improvements to an item of property, plant and equipment are recognized in the carrying amount of the item if it is probable that the embodied future economic benefits will flow to the Company and the cost of renewals or improvements can be measured reliably. The cost of day-to-day servicing of property, plant and equipment is recognized in statement of profit or loss as incurred.

### b) Depreciation

Depreciation on operating fixed assets is calculated applying the straight line method so as to write off the cost / depreciable amount of the assets over their estimated useful lives at the rates given in Note 13.2. The Company charges the depreciation on additions from the month when the asset is available for use and on deletions up to the month when the asset is de-recognized. Depreciation on operating fixed assets is charged to the statement of profit or loss except for depreciation provided on construction equipment and vehicles during the period of construction of operating fixed assets that is capitalized as part of the cost of operating fixed assets. The assets' residual values and useful lives are reviewed and adjusted, if appropriate, at each reporting date.

### c) De-recognition

An item of property, plant and equipment is de-recognized upon disposal or when no future economic benefits are expected from its use or disposal. Any gain or loss arising on de-recognition of the asset is included in the statement of profit or loss in the year the asset is de-recognized.

### 2.6 Stores and spare parts

Usable stores and spare parts are valued principally at cost using moving average cost formula less provision for slow moving, while items considered obsolete are carried at nil value. Items-in-transit are valued at cost comprising invoice value plus other charges paid thereon.

### 2.7 Cash and cash equivalents

Cash and cash equivalents comprise cash in hand, cash at banks on current, saving and deposit accounts and other short term highly liquid instruments that are readily convertible into known amounts of cash and which are subject to insignificant risk of changes in values.

### 2.8 Revenue from contracts with customers

### i) Revenue recognition

### Sale of electricity

Revenue from the sale of electricity is recognized on supply of electricity to consumers at the rates determined by NEPRA and notified by the Government of Pakistan in official gazette from time to time. Late payment charges are recognized on accrual basis.

### Tariff differential subsidy

Tariff differential subsidy on electricity announced by the Government of Pakistan for consumers is recognized under revenue on accrual basis.

### Rental and service income

Meter rentals are recognized on time proportion basis.

### Rendering of services

Revenue from a contract to provide services is recognized over time as the services are rendered based on either a fixed price or an hourly rate.

### Interest

Interest income is recognized as it accrues using the effective interest method using the rate that exactly discounts estimated future cash receipts through the expected life of the financial asset to the gross carrying amount of the financial asset.

### Other revenue

Other revenue is recognized when it is received or when the right to receive payment is established.

### ii) Contract assets

Contract assets arise when the Company performs its performance obligations by transferring goods to a customer before the customer pays its consideration or before payment is due. Contract assets are treated as financial assets for impairment purposes.

### iii) Contract liabilities

Contract liability is the obligation of the Company to transfer goods to a customer for which the Company has received consideration from the customer. If a customer pays consideration before the Company transfers goods, a contract liability is recognized when the payment is made. Contract liabilities are recognized as revenue when the Company performs its performance obligations under the contract.

### 2.9 Financial Instruments

### i) Recognition, classification and measurement of financial instruments

### a) Recognition

The Company initially recognizes financial assets on the date when they are originated. Financial liabilities are initially recognized on the trade date when the entity becomes a party to the contractual provisions of the instrument.

### b) Classification

The Company classifies its financial assets and financial liabilities at amortized cost. A financial asset is measured at amortized cost if both of following conditions are met:

- the financial asset is held within a business model whose objective is to hold financial assets in order to collect contractual cash flows: and

- the contractual terms of the financial asset give rise on specified dates to cash flows that the solely payments of principal and interest on the principal amount outstanding.

### c) Measurement

### Financial assets

At initial recognition, the Company measures a financial asset at its fair value plus transaction costs that are directly attributable to the acquisition of the financial asset. Subsequent measurement of debt instruments depends on the Company's business model for managing the asset and the cash flow characteristics of the asset. The Company classifies its debt instruments at amortized cost. Financial assets that are held for collection of contractual cash flows where those cash flows represent solely payments of principal and interest are measured at amortized cost. Interest income from these financial assets is included in other income using the effective interest rate method. Any gain or loss arising on derecognition is recognized directly in profit or loss and presented in other income / (other expenses).

Financial assets measured at amortized cost comprise of trade debts, loans and advances, accrued interest, cash and bank balances, deposits and other receivables.

### Financial liabilities

Financial liabilities are classified and measured at amortized cost. These are subsequently measured at amortized cost using the effective interest method. Interest expense is recognized in statement of profit or loss. Any gain or loss on derecognition is also included in profit or loss. Financial liabilities measured at amortized cost comprise of long term financing, trade and other payables, long term security deposits and accrued mark-up.

### ii) Impairment of financial assets

The Company assesses on a forward looking basis the expected credit losses associated with its debt instruments carried at amortized cost. The impairment methodology applied depends on whether there has been a significant increase in credit risk. For trade debts and other receivables, the Company applies the simplified approach to recognize expected lifetime losses from initial recognition of the receivables.

### iii) De-recognition

### Financial assets

The Company de-recognizes a financial asset when the contractual rights to the cash flows from the asset expire, or it transfers the rights to receive the contractual cash flows in a transaction in which substantially all of the risks and rewards of ownership of the financial asset are transferred, or it neither transfers nor retains substantially all of the risks and rewards of ownership and does not retain control over the transferred asset. Any interest in such de-recognized financial assets that is created or retained by the Company is recognized as a separate asset or liability.

### Financial liabilities

The Company de-recognizes a financial liability when its contractual obligations are discharged or cancelled or expired. The Company also de-recognizes a financial liability when its terms are modified and the cash flows of the modified liability are substantially different, in which case a new financial liability based on the modified terms is recognized at fair value. On de-recognition of a financial liability, the difference between the carrying amount extinguished and the consideration paid (including any non-cash assets transferred or liabilities assumed) is recognized in profit or loss.

### iv) Offsetting of financial instruments

Financial assets and financial liabilities are set off and the net amount is reported in the financial statements when there is a legal enforceable right to set off and the Company intends either to settle on a net basis or to realize the assets and to settle the liabilities simultaneously.

### 2.10 Trade receivables

Trade receivables are initially recognized at fair value and subsequently measured at amortized cost using the effective interest method, less any allowance for expected credit losses.

The Company has applied the simplified approach to measure expected credit losses, which uses a lifetime expected loss allowance. Actual credit loss experience over past years is used to base the calculation of expected credit loss.

Expected credit losses are recognized as follows:

- a) No expected credit loss on Government institutions balances;
- b) Expected credit loss of seventy five percent on permanently disconnected consumers; and
- c) Expected credit loss on arrears from private consumers and deferred arrears at the rates approved.

The percentage rates for creating allowance for expected credit losses on trade debts is as follows:

Permanently disconnected connections	75%
Deferred arrears	75%
Arrears:	
More than 3 months and up to 6 months	5%
More than 6 months and up to 1 year	10%
More than 1 year	100%

### 2.11 Deferred credit

Amounts received from consumers and Government as contributions towards the cost of extension of electricity distribution network and of providing service connections are deferred and amortized over the estimated useful lives of related assets except for separately identifiable services in which case revenue is recognized upfront upon establishing a connection network. Amortization of deferred credit for the year is recognized as income in the statement of profit or loss.

### 2.12 Borrowings

Financing and borrowings are initially recognized at fair value of the consideration received, net of transaction costs. These are subsequently measured at amortized cost using the effective interest method.

### 2.13 Borrowing cost

Interest, mark-up and other charges on long term finances directly attributable to the acquisition, construction and production of qualifying assets are capitalized up to the date of commissioning of respective qualifying assets. All other interest, mark-up and other charges are charged to the statement of profit or loss in the period in which these are incurred.

### 2.14 Loans, advances, deposits and receivables

These are recognized at cost less an estimate made for doubtful receivables based on a review of all outstanding amounts at the year end.

### 2.15 Share capital

Ordinary shares are classified as share capital. Incremental costs directly attributable to the issue of new shares are shown in equity as a deduction, net of tax.

### 2.16 Trade and other payables

Trade and other payables are initially recognized at fair value plus directly attributable costs. These are subsequently measured at amortized cost.

### 2.17 Impairment of non-financial assets

Assets that have an indefinite useful life are not subject to depreciation and are tested annually for impairment. The carrying amount of the Company's other non-financial assets are reviewed at each reporting date to determine whether there is any indication of impairment. If any such indication exists, then the asset's recoverable amount is estimated. The recoverable amount of an asset is the greater of its value in use and fair value less cost to sell. Impairment losses recognized in prior periods are assessed at each reporting date for any indication that the loss has decreased or no longer exists. An impairment loss is reversed if there has been a change in the estimates used to determine the recoverable amount. An impairment loss is reversed only to that extent that the asset's carrying amount after the reversal does not exceed the carrying amount that would have been determined, net of depreciation or amortization, if no impairment losses had been recognized. An impairment loss is recognized if the carrying amount of the asset exceeds its recoverable amount.

### 2.18 Provisions

Provisions are recognized when the Company has a present, legal or constructive obligation as a result of past events and it is probable that an outflow of resources embodying economic benefits will be required to settle the obligations and a reliable estimate of the amount can be made. Provisions are reviewed at each reporting date and adjusted to reflect current best estimate.

### 2.19 Earnings / (loss) per share

The Company presents basic and diluted earnings / (loss) per share data for its ordinary shares. Basic earnings / (loss) per share is calculated by dividing the profit attributable to ordinary shareholders or loss for the year of the Company by the weighted average number of ordinary shares outstanding during the year. Diluted earnings / (loss) per share is determined by adjusting the profit attributable to ordinary shareholders or loss for the year and the weighted average number of ordinary shareholders or loss for the year and the weighted average number of ordinary shares outstanding or loss for the year.

### 2.20 Contingent assets

Contingent assets are disclosed when the Company has a possible asset that arises from past events and whose existence will only be confirmed by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the Company. Contingent assets are not recognized until their realization becomes certain.

### 2.21 Contingent liabilities

A contingent liability is disclosed when:

- there is a possible obligation that arises from past events and whose existence will only be confirmed by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the Company or;

- there is present obligation that arises from past events but it is not probable that an outflow of resources will be required to settle the obligation or the amount of the obligation cannot be measured with sufficient reliability.

### 2.22 Intangible asset

Intangible asset represents the cost of computer softwares and is stated at cost less accumulated amortization and any identified impairment loss. Intangible asset is amortized from the month, when the assets becomes available for use, using the straight line method, and upto the last month previous the month of disposal, whereby the cost of the intangible asset is amortized over its estimated useful life over which economic benefits are expected to flow to the Company. The useful life and amortization method is reviewed and adjusted, if appropriate, at each reporting date.

### 3. ISSUED, SUBSCRIBED AND PAID UP SHARE CAPITAL

2020 NUMBER	2019 OF SHARES		2020 RUPEES	2019 RUPEES
1 000	1 000	Ordinary shares of Rupees 10 each fully paid in cash to Government of Pakistan (GoP) and its nominee directors	10,000	10,000
1 082 362 604	1 082 362 604	Ordinary shares of Rupees 10 each fully paid issued for consideration other than in cash to WAPDA	10,823,626,048	10,823,626,048
1 082 363 604	1 082 363 604		10,823,636,048	10,823,636,048

### 4. DEPOSIT FOR SHARES

This represents credit of Rupees 31,337,632,169 (2019: Rupees 31,337,632,169) received by the Company in financial year 2014 from Central Power Purchase Agency (Guarantee) Limited (CPPA) in pursuance of letter No. F.1(5)-CF-1/2012-13/1017 dated 02 July 2013 from Ministry of Finance as GoP investment against circular debt of Rupees 341 billion. Hence this was treated as GoP equity investment in the Company.

LONG T	ERM FINANCING	2020 RUPEES	2019 RUPEES
Loans fi	rom related party		
Secured	1		
From Go	P - (foreign re-lent) :		
Intern	ational Bank for Reconstruction and Development (Note 5.1)	3,849,036,226	3,849,036,226
Asian	Development Bank - Tranche I (Note 5.2)	1,354,866,393	1,354,866,393
Asian	Development Bank - Tranche II (Note 5.3)	2,168,842,944	2,168,842,944
Asian	Development Bank - Tranche III (Note 5.4)	3,118,563,244	3,118,563,244
Asian	Development Bank - Tranche IV (Note 5.5)	2,772,764,983	2,772,764,983
Unsecu	red	13,264,073,790	13,264,073,790
Cash [	Development Loan from GoP (Note 5.6)	797,050,000	797,050,000
•		14,061,123,790	14,061,123,790
Other	loans (Note 5.7, 5.8, 5.9 and 5.10)	88,364,351	126,472,360
		14, 149, 488, 141	14,187,596,150
Less:			
Current p	cortion shown under current liabilities	934,027,986	951,588,840
Overdue	portion shown under current liabilities	5,097,829,610	4,424,580,345
		6,031,857,596	5,376,169,185
		8,117,630,545	8,811,426,965

- 5.1 This represents re-lent portion of loan obtained by the GoP from International Bank for Reconstruction and Development (IBRD) for electricity distribution and transmission improvement project which is secured against the guarantee by GoP, pursuant to the re-lent agreement between GoP and the Company. This facility carries interest at the rate of 17% per annum which comprises of re-lending interest of 11% per annum and exchange risk cover of 6% per annum payable on half yearly basis. Repayment of principal has to be made on half yearly basis within maximum period of 15 years including grace period of 2 years starting from September 2011. The overdue amount of principal and mark-up aggregate to Rupees 2,566.656 million (2019: Rupees 2,246.061 million) and Rupees 3,722.036 million (2019: Rupees 3,458.130 million) respectively.
- 5.2 This represents re-lent portion of loan obtained by GoP from Asian Development Bank (ADB) for Distribution Enhancement Investment Program which is secured against the guarantee by GoP, pursuant to the re-lent agreement between GoP and the Company. This facility carries interest at the rate of 17% inclusive of relending interest of 11% per annum plus exchange risk cover fee of 6% per annum which shall be charged both on principal amount and interest amount separately. Repayment of principal has to be made on half yearly basis within maximum period of 15 years including grace period of 2 years starting from February 2011. The overdue amount of principal and mark-up aggregate to Rupees 905.799 million (2019: Rupees 1,017.485 million) and Rupees 925.569 million (2019: Rupees 832.868 million) respectively.

- 5.3 This represents re-lent portion of loan obtained by GoP from ADB for Distribution Enhancement Investment Program which is secured against the guarantee by GoP, pursuant to the re-lent agreement between GoP and the Company. Disbursements during the year of Rupees Nil (2019: Rupees 16.186 million) have been transferred to the Company. This facility carries interest at the rate of 15% inclusive of relending interest of 8.2% per annum plus exchange risk cover fee of 6.5% per annum which shall be charged both on principal amount and interest amount separately. Repayment of principal has to be made on half yearly basis within maximum period of 17 years excluding grace period of 3 years starting from June 2014. The overdue amount of principal and mark-up aggregate to Rupees 789.359 million (2019: Rupees 657.980 million) and Rupees 1,798.902 million (2019: Rupees 1,573.079 million) respectively.
- 5.4 This represents re-lent portion of loan obtained by GoP from ADB for Distribution Enhancement Investment Program which is secured against the guarantee by GoP, pursuant to the re-lent agreement between GoP and the Company. Disbursements during the year of Rupees Nil (2019: Rupees 192.484 million) have been transferred to the Company. This facility carries interest at the rate of 15% inclusive of relending interest of 8.2% per annum plus exchange risk cover fee of 6.8% per annum which shall be charged both on principal amount and interest amount separately. Repayment of principal has to be made on half yearly basis within maximum period of 25 years including grace period of 5 years starting from June 2018. The overdue amount of principal and mark-up aggregate to Rupees 383.848 million (2019: Rupees 227.578 million) and Rupees 1,826.320 million (2019: Rupees 1,390.581 million) respectively.
- 5.5 This represents re-lent portion of loan obtained by GoP from ADB for Distribution Enhancement Investment Program which is secured against the guarantee by GoP, pursuant to the re-lent agreement between GoP and the Company. Disbursements during the year of Rupees Nil (2019: Rupees 345.812 million) have been transferred to the Company. This facility carries interest at the rate of 15% inclusive of relending interest of 8.2% per annum plus exchange risk cover fee of 6.3% per annum which shall be charged both on principal amount and interest amount separately. Repayment of principal will be started from June 2019 and will be repaid on half yearly basis within maximum period of 25 years including grace period of 5 years. The overdue amount of principal and mark-up aggregate to Rupees 207.957 million (2019: Rupees 69.319 million) and Rupees 1,411.020 million (2019: Rupees 1,003.261 million) respectively.
- 5.6 This represents a loan obtained from the GoP under "Prime Minister's Southern Punjab Development Package" for construction of new grid stations and laying transmission lines. The limit of the loan facility is Rupees 1,228 million. As per instructions of the Finance Division of GoP for loan disbursements, the interest shall be chargeable at a prevailing rate of interest for respective year, which has been assessed as 12.59% for the year 2009-10, 13.61% for 2010-11 and 12.64% per annum for the year 2011-12 by the Company. Repayment of principal has to be made on yearly basis within maximum period of 25 years including grace period of 5 years starting from June 2015. The overdue amount of principal and mark-up aggregate to Rupees 239.115 million (2019: Rupees 199.263 million) and Rupees 842.782 million (2019: Rupees 762.184 million) respectively.
- 5.7 These include Rupees Nil (2019: Rupees 13.889 million) interest free loan from RYK Mills Limited under an agreement to meet expenses for grid interconnection. This loan has been completely repaid during the year. The overdue amount of principal aggregates to Rupees Nil (2019: Rupees 2.778 million).
- 5.8 These include two interest free loans of Rupees 3.617 million (2019: Rupees 11.573 million) and Rupees 9.444 million (2019: Rupees 15.555 million) from Hamza Sugar Mills Limited under an agreement to meet expenses for grid interconnection. Loan No. 1 is repayable in 36 equal monthly installments commencing after 18 months of commercial operation date of the project which is 01 March 2016. The overdue amount of principal aggregate to Rupees 1.447 million (2019: Rupees 0.723 million). Loan No. 2 is repayable in 36 equal monthly installments of commercial operation date of the project which is 10 March 2017. The overdue amount of principal aggregates to Rupees 0.555 million).
- 5.9 These include Rupees 55 million (2019: Rupees 55 million) interest free loan from The Thal Industries Corporation Limited under an agreement to meet expenses for grid interconnection. The loan is repayable in 36 equal monthly installments commencing after 18 months of commercial operation date of the project which has not yet been assessed.
- 5.10 These include Rupees 20.303 million (2019: Rupees 30.455 million) interest free loan from Harappa Solar (Private) Limited under an agreement to meet expenses for grid interconnection. The loan is repayable in 36 equal monthly installments commencing after 17 months of commercial operation date which is 14 October 2017. The overdue amount of principal aggregates to Rupees 2.538 million (2019: Rupees 2.538 million).
- 5.11 The fair value adjustment in accordance with the requirements of IFRS 9 'Financial Instruments' arising in respect of the loans given in Note 5.8, Note 5.9 to Note 5.10 is not considered material and hence not recognized.

		2020 RUPEES	2019 RUPEES
6.	STAFF RETIREMENT BENEFITS		
	Free medical benefits (Note 6.1)	8,894,496,626	6,690,277,642
	Pension (Note 6.1)	64,365,593,400	65,322,228,339
	Free electricity benefits (Note 6.1)	3,488,920,119	3,356,447,248
	Compensated absences (Note 6.1)	3,833,673,724	3,806,464,334
		80,582,683,869	79,175,417,563

### 6.1 Movement in the net liabilities recognized in the statement of financial position is as follows:

	and the second se				
		5 - K - K	30 June 2020		
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Balance as at 01 July 2019	6,690,277,642	65,322,228,340	3,356,447,248	3,806,464,334	79,175,417,564
Charge for the year (Note 6.2)	1,236,313,088	10,074,662,763	612,437,422	309,425,941	12,232,839,214
Remeasurement recognized in other					
comprehensive income (Note 6.3)	979,597,361	(6,278,116,187)	(375,726,909)	-	(5,674,245,735)
Benefits paid	(11,691,465)	(4,071, <b>529,8</b> 45)	(104,237,642)	(282,216,551)	(4,469,675,503)
Contribution made	-	(681,651,671)	-	-	(681,651,671)
Balance as at 30 June 2020	8,894,496,625	64,365,593,400	3,488,920,119	3,833,673,724	80,582,683,869
			30 June 2019		
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Balance as at 01 July 2018	4,493,494,423	60,148,562,987	2,573,361,784	3,178,735,078	70,394,154,272
Charge for the year (Note 6.2) Remeasurement racognized in other	531,702,722	6,795,636,027	330,036,560	921,471,585	8,678,846,894

Balance as at 30 June 2019	6,690,277,642	65,322,228,340		3,806,464,334	/9,1/5,417,564
Polonen an ab 20 June 2010	6 600 277 642	CC 333 330 240	3 366 447 348	2.000 464.024	70 175 417 564
Contribution made	-	(160,224,720)	-	-	(160,224,720)
Benefits paid	(15,226,411)	(3,939,898,971)	(81,024,375)	(293,742,329)	(4,329,892,086)
comprehensive income (Note 6.3)	1,580,306,908	2,478,153,017	534,073,27 <del>9</del>	-	4,592,533,204

		2020 PUDEES	2019 BUREES
	Present value of defined benefit obligations	66,714,371,425	66,802,556,973
	rair value of plan assets (Note 6.1.1.1)	(2,348,778,025)	(1,480,328,633)
		64,365,593,400	65,322,228,340
6.1.1.1	Change in fair value of plan assets		
	Balance as at 01 July	1,480,328,633	1,213,580,349
	Interest income	214,647,652	121,358,035
	Cash flows:		
	<ul> <li>Total employer's contributions</li> </ul>		
	(i) Employer's contributions	681,651,671	160,224,719
	(ii) Employer's direct Benefit payments	4,753,181,506	3,939,898,971
	<ul> <li>Benefit payments from Plan</li> </ul>	(4,753,181,506)	(3,939,898,971)
	Return on plan assets	(27,849,931)	(14,834,470)
	Balance as at 30 June	2,348,778,025	1,480,328,633

### Amounts recognized in the statement of profit or loss against defined benefit schemes are: 6.2

	30 June 2020				
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Current service cost	267,070,462	898,125,568	133,309,800	4,538,758	1,303,044,588
Interest cost Actuarial gains	969,242,626	3,1,0,23,1122	4/9,127,022	(226,589,445)	(226,589,445)
Net charge for the year	1,236,313,088	10,074,662,763	512,437,422	309,425,941	12,232,839,214
	30 June 2019				
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Current sarvice cost Interest cost	183,114,600 448,588,122	977,774,677 5,817,861,350	76,751,600 253,284,960	54,123,805 303,186,391	1,291,764,682 6,822,920,823
Actuarial losses	-	-	-	564,161,389	564,161,389
Net charge for the year	631,702,722	6,795,636,027	330,036,560	921,471,585	8,678,846,894

### 6.3 Remeasurement recognized in other comprehensive income:

			30 June 2020		11
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Loss / (gain) on obligation	979,597,361	(6,305,966,118)	(375,726,909)	-	(5,702,095,666)
Loss on plan assets	-	27,849,931	-	-	27,849,931
Experience adjustments	979,597,361	(6,278,116,187)	(375,726,909)	~	(5,674,245,735)
			30 June 2019		·
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Loss on obligation	1,580,306,908	2,463,318,547	534,073,279	-	4,577,698,734
Loss on plan assets	-	14,834,470	-	-	14,834,470
Experience adjustments	1,580,306,908	2,478,153,017	534,073,279		4,592,533,204

### 6.4 Movement in present value of defined benefit obligations:

30 June 2020					
Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total	
RUPEES	RUPEES	RUPEES	RUPEES	RUPEES	
6,690,277,642	65,322,228,340	3,356,447,248	3,806,464,334	79,175,417,564	
267,070,462	898,125,568	133,309,800	4,538,758	1,303,044,588	
969,242,626	9,176,537,195	479,127,622	531,476,628	11,156,384,071	
(11,691,465)	(4,071,529,845)	(104,237,542)	(282,216,551)	(4,469,675,503)	
979,597,361	(6,278,116,187)	(375,726,909)	-	(5,674,245,735)	
2	-	-	(226,589,445)	(226,589,445)	
•	(681,651,671)	-	-	(681,651,671)	
8,894,496,626	64,365,593,400	3,488,920,119	3,833,673,724	80,582,683,869	
	Free medical benefits RUPEES 6,690,277,642 267,070,462 569,242,626 (11,691,465) 979,597,361 2 8,894,496,626	Free medical benefits         Pension           RUPEES         RUPEES           \$,690,277,642         65,322,228,340           267,070,462         898,125,568           969,242,626         9,176,537,195           (11,691,465)         (4,071,529,845)           979,597,361         (6,278,116,187)           2         (681,651,671)           8,894,496,626         64,365,593,400	30 June 2020           Free medical benefits         Pension         Free electricity benefits           RUPEES         RUPEES         RUPEES           \$6,690,277,642         65,322,228,340         3,356,447,248           267,070,462         898,125,558         133,309,800           \$69,242,626         9,176,537,195         479,127,622           (11,691,465)         (4,071,529,845)         (104,237,642)           979,597,361         (6,278,116,187)         (375,726,909)           -         (681,651,671)         -           8,894,496,626         64,365,593,400         3,488,920,119	30 June 2020           Free medical benefits         Pension         Free electricity benefits         Compensated absences           RUPEES         RUPEES         RUPEES         RUPEES         RUPEES           5,690,277,642         65,322,228,340         3,356,447,248         3,806,464,334           267,070,462         898,125,568         133,309,800         4,538,758           969,242,626         9,176,537,195         479,127,622         531,476,628           (11,691,465)         (4,071,529,845)         (104,237,642)         (282,216,551)           979,597,361         (6,278,116,187)         (375,726,909)         -           2         -         (226,589,445)         -           3.8894,496,626         64,365,593,400         3,488,920,119         3,833,673,724	

		30 June 2019				
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total	
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES	
Balance as at 01 July 2018	4,493,494,423	60,148,562,987	2,573,361,784	3,178,735,078	70,394,154,272	
Current service cost	183,114,600	977,774,677	76,751,600	54,123,805	1,291,764,682	
Interest cost	448,588,122	5,817,861,350	253,284,960	303,185,391	6,822,920,823	
Benefits paid	(15,226,411)	(3,939,898,971)	(81,024,375)	(293,742,329)	(4,329,892,086)	
Remeasurements	1,580,306,908	2,478,153,017	534,073,279	-	4,592,533,204	
Actuarial losses	-	-	-	564,161,389	564,161,389	
Contribution made	-	(160,224,720)	-	•	(160,224,720)	
Balance as at 30 June 2019	5 690 277 642	65 322 228 340	3 355 447 748	3 806 454 334	79 175 417 564	

6.5 All of the investment of plan assets is in deposit account of a commercial bank along with in certain term deposit receipts of a commercial bank.

<sup>6.6</sup> Principal actuarial assumptions :

		30 June	2020	
	Free medical benefits	Pension	Free electricity benefits	Compensated absences
Discount rate (per annum)	9.25%	9.25%	9.25%	9.25%
Inflation rate (per annum)	-	-	7.25%	-
Annual medical claim - Rupees	17,771	-	-	-
Salary increase rate used for year end obligation (per annum)		8.75%	-	-
Medical / pension / electricity indexation rate	9.25%	3.00%	7.25%	-
Medical exposure rate (per annum)	14.50%	-	-	-
Mortality rates	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 and 4 years	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 year
Withdrawal rates	Low	Law	Low	Low
Expected charge to the statement of profit or loss for the next financial year (Rugees)	1,114,515,418	6,935,019,573	468,356,068	359,573,412

	30 June 2019			
	Free medical benefits	Pension	Free electricity benefits	Compensated absences
Discount rate (per annum)	14.50%	14.50%	14.50%	14.25%
Inflation rate (per annum)	*	-	12.50%	-
Annual medical claim - Rupees	13,153	-	-	-
Salary increase rate used for year end obligation (per annum)	-	14.00%	-	-
Medical / pension indexation rate	14.50%	8.25%	12.25%	-
Medical exposure rate (per annum)	14.50%	-	-	-
Mortality rates	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 and 4 years	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 year
Withdrawal rates Expected charge to the statement of profit or loss for the next	Low	Low	Low	Low
financial year (Rupees)	1,179,756,475	10,591,275,113	574,565,433	613,909,085

### Sensitivity analysis for actuarial assumptions: 6.7

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The sensitivity of the staff retirement benefits to changes in the weighted principal assumption is:

		30 June 2020		
	Free medical benefits	Pension	Free electricity benefits	Compensated absences
Discount rate Increase in assumption (Rupees) Decrease in assumption (Rupees)	1.00% (1,554,667,322) 1,898,280,323	1.00% (4,704,177,338) 12,734,879,534	1.00% (587,942,395) 703,618,602	1.00% (411,645,453) 491,389,953
Medical exposure rate Increase in assumption (Rupees) Decrease in assumption (Rupees)	1.00% 640,403,757 (551,458,791)	-	-	- - -
Medical inflation rate Increase in assumption (Rupees) Decrease in assumption (Rupees)	1.00% 1,982,279,173 (357,903,469)	-	- -	- -
Withdrawal rates Increase in assumption (Rupees) Decrease in assumption (Rupees)	10.00% (12,452,295) 15,120,644	10.00% 2,315,420,839 2,382,135,211	10.00% (2,093,352) 2,093,352	10.00% (23,402,924) (31,015,852)
Future salary increase Increase in assumption (Rupees) Decrease in assumption (Rupees)	- - -	1.00% 4,732,310,253 (1,013,704,589)	- -	1.00% 491,156,145 (418,735,906)
Indexation rate Increase in assumption (Rupees) Decrease in assumption (Rupees)		1.00% 9,528,756,873 (2,408,372,252)	1.00% 761,209,716 (634,993,791)	- -
Mortality setback Increase in assumption (Rupees) Decrease in assumption (Rupees)	1 year (333,543,623) 336,211,972	1 year 4,159,059,723 2,002,189,132	1 year -	1 year (29,759,719) (24,659,057)

······································	30 Jun	e 2019	
Free medical benefits	Pension	Free electricity benefits	Compensated absences
1.00% (1,103,055,655) 1,332,236,830	1.00% (4,617,905,548) 12,644,723,197	1.00% (464,046,472) 592,173,681	1.00% (373,200,523) 440,418,710
1.00% 481,699,991 (414,797,213)	-	-	-
1.00% 1,357,364,759 (1,138,311,151)	-	- -	- -
10.00% (9,366,388) 11,373,472	10.00% 1,446,927,355 1,513,729,911	10.00% (2,013,868) 2,013,868	10.00% 3,806,464 (3,806,464)
-	1.00% 4,630,146,172 (1,296,163,505)	- -	1.00% 440,371,816 (379,478,634)
-	1.00% 9,362,154,945 (2,051,255,932)	- 643,430,937 (503,467,087)	-
1 year (250,385,411) 252,892,495	1 year 4,183,547,201 2,057,896,898	1 year	1 year (2,550,331) 2,550,331

Discount rate
Increase in assumption (Rupees)
Decrease in assumption (Rupees)

Medical exposure rate Increase in assumption (Rupees) Decrease in assumption (Rupees)

Medical inflation rate Increase in assumption (Rupees) Decrease in assumption (Rupees)

Withdrawal rates Increase in assumption (Rupees) Decrease in assumption (Rupees)

Future salary increase Increase in assumption (Rupees) Decrease in assumption (Rupees)

Indexation rate Increase in assumption (Rupees) Decrease in assumption (Rupees)

Mortality setback Increase in assumption (Rupees) Decrease in assumption (Rupees)

The sensitivity analysis is based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. When calculating the sensitivity of the staff retirement benefits to significant actuarial assumptions, the same method (present value of the staff retirement benefits calculated with the projected unit credit method at the end of the reporting period) has been applied as when calculating the staff retirement benefits liabilities recognized within the statement of financial position.

The methods and types of assumptions used in preparing the sensitivity analysis were changed as compared to the previous year due to downward trend in discount rate structure and decrease in inflationary expectations.

6.8 As at 30 June 2020, the average duration of these benefits was 14 years.

### 6.9 Risks associated with staff retirement benefits

### Longevity risk

The risk arises when the actual lifetime of retirees is longer than expectation. This risk is measured at the plan level over the entire retiree

### Salary increase risk

The most common type of retirement benefit is one where the benefit is linked with final salary. The risk arises when the actual increases are higher than expectation and impacts the liability accordingly.

### Withdrawal risk

The risk of actual withdrawals varying with the actuarial assumptions can impose a risk to the benefit obligation. The movement of the liability can go either way.

### 7. LONG TERM SECURITY DEPOSITS

These represent security deposits received from consumers on account of electricity connections. These are refundable / adjustable on disconnection of electricity supply. Out of the total amount, an amount of Rupees 1,723.660 million (2019: Rupees 1,268.952 million) is kept in separate bank accounts maintained in respect of security deposits received.

		2020	2019
		RUPEES	RUPEES
8,	RECEIPT AGAINST DEPOSIT WORKS		
	Consumers demand notices awaiting connections (Note 8.1)	4,759,638,093	4,823,951,134
	Funds received against deposit works (Note 8.2)	21,043,387,259	15,899,024,883
		25,803,025,352	20,722,976,017

8.1 These represent amounts received from consumers through demand notices against which the related works / jobs have not been completed.

8.2 These represent amounts received directly by the Company for electrification of villages, colonies and other deposit works, mainly provided through Government funding against which the related works / jobs have not been completed.

		2020 RUPEES	2019 RUPEES
9.	DEFERRED CREDIT		
	Balance as at 01 July	81,943,095,059	74,209,857,963
	Addition during the year	5,481,441,661	7,733,237,096
		87,424,536,720	81,943,095,059
	Less: Amortization		
	Balance as at 01 July	24,748,218,770	21,989,690,376
	Amortization for the year	2,952,291,619	2,758,528,394
		27,700,510,389	24,748,218,770
	Balance as at 30 June	59.724,026,331	57,194,876,289

9.1 This represents the capital contributions received from consumers and Government against which assets are constructed by the Company.

		2020 PU0555	2019 PUDEES
10.	TRADE AND OTHER PAYABLES	NOF 123	NOF 110
	Creditors	2,171,261,305	3,203,238,163
	Equalization surcharge payable	2,237,968,773	2,235,784,140
	Due to associated companies (Note 10.1)	160,511,794,554	107,784,414,901
	Accrued liabilities	1,138,994,294	1,026,265,209
	Contract liabilities	960,319,052	693,986,358
	Retention money payable	804,528,670	855,663,073
	Electricity duty payable	51,922,924	360,849,896
	Neelum Jhelum surcharge payable	142,211,788	169,431,383
	T.V. license fees payable	115,566,435	138,752,150
	Financing cost surcharge	1,183,851,409	1,296,471,778
	Tariff rationalization surcharge	1,786,009,455	1,762,846,490
	Compact Fluorescent Lamps cost payable (Note 10.2)	807,373,696	807,373,696
	Workers' profit participation fund (Note 10.3 and Note 10.4)	1,779,060,924	1,592,118,856
	Other liabilities	1,161,777,915	973,435,976
		174,852,741,194	123,000,632,069
10.1	Due to associated companies		
	Central Power Purchasing Agency (Guarantee) Limited (CPPA)	155,442,616,672	104,090,970,184
	Hyderabad Electric Supply Company Limited (HESCO)	7,498,707	925,667
	Gujranwala Electric Power Company Limited (GEPCO)	11,766,077	17,910,967
	Faisalabad Electric Supply Company Limited (FESCO)	179,339,754	61,595,780
	National Transmission and Despatch Company Limited (NTDC)	4,865,395,938	3,604,849,050
	Sukkur Electric Power Company Limited (SEPCO)	5,177,406	8,163,253
	·	160,511,794,554	107,784,414,901

- 10.2 During financial year 2013-14, the Company had received Compact Fluorescent Lamps (CFLs) from Pakistan Electric Power Company (PEPCO) under the Clean Development Mechanism (CDM) Program of activities -"National CFL Project Pakistan". CFLs cost will have to be borne by the Company from its distribution margin.
- **10.3** The Company has not made payment of its contribution towards Workers' Profit Participation Fund (WPPF), being the Company's liability on account of provision of Companies Profit (Workers' Participation) Act, 1968 uptill 30 June 2015. This matter is pending for decision with Economic Coordination Committee (ECC) upon recommendation submitted by WAPDA to exempt the undertakings established under the umbrella of WAPDA from compliance with the requirements of Companies Profit (Workers' Participation) Act, 1968. Due to pending decision with the ECC, no provision for mark-up is made as required under Companies Profit (Workers' Participation) Act, 1968. However, the Company has shown the mark-up as contingent liability under Note 12.1.2 to the financial statements.

### 10.4 Workers' profit participation fund

	At the beginning of the year Provision for the year (Note 26)	1,692,118,856 86,942,068	1,692,118,856 -
	At the end of the year	1,779,060,924	1,692,118,856
11.	ACÇRUED MARK-UP	2020 RUPEES	2019 RUPEES Restated
	Foreign re-lent loans Cash development loan (Note 11.1) Overdue mark-up on foreign re-lent and cash development loans	175,152,313 86,858,135 10,526,628,716 10,788,639,164	204,553,143 63,309,832 9,020,104,005 9,292,966,980

**11.1** The figure of accrued mark-up has been restated based on the confirmation received from Finance Division, Government of Pakistan (GoP). Mark-up was charged by the Finance Division of GoP on each sanctioned amount individually while the Company charged the mark-up on cumulative amount as per the rate applied by Ministry of Finance Division on last sanctioned amount.

This prior period error has been corrected retrospectively in these financial statements in accordance with IAS 8. Consequently, for the financial year ended 30 June 2018, accrued mark-up and accumulated loss has been decreased by Rupees 32,443,169. For the financial year ended 30 June 2019, accrued mark-up and loss after taxation have been increased by Rupees 20,155,304. Basic loss per share has been increased by Rupees 0.02 per share while no significant effect has been made on diluted loss per share.

### 12. CONTINGENCIES AND COMMITMENTS

### 12.1 Contingencies

12.1.1 The Company has received various invoices from CPPA representing late payment charges (supplementary charges) being the share of the Company in the mark-up charged to CPPA by Independent Power Producers (IPPs) on account of delayed payments aggregating to Rupees 22,018.83 million (2019: Rupees 17,058.28 million).

As mentioned in Para 18 of tariff determination by NEPRA communicated through letter no. NEPRA/TRF-283/MEPCO-2014/4264-4266 dated 27 March 2015 and Para 8.10 and 20 of tariff determination by NEPRA communicated through letter no. NEPRA/TRF-332/MEPCO-2015/2697-2699 dated 29 February 2016, it was mutually agreed by the representatives of CPPA and distribution companies that, as per clause 9.3(d) of electricity supply agreement dated 29 June 1998 between DISCOs and NTDC, the DISCOs are obliged to pay late payment charges (supplementary charges) to CPPA on account of delay payments of invoices.

NEPRA has decided that the late payment charges (supplementary charges) recovered from consumers on utility bills shall be offset against the late payment charges (supplementary charges) invoices raised by CPPA and CPPA cannot account for late payment charges (supplementary charges) over and above what is calculated as per agreement. Therefore, no provision for late payment charges (supplementary charges) of Rupees 16,357.33 million have been recognized in these financial statements as the management is of the view that supplementary charges have not been allowed as expense by NEPRA in tariff determination.

- 12.1.2 The Companies Profit (Workers' Participation) Act, 1968 requires payment of the allocated amount to the workers' profit participation fund within nine months of the close of relevant financial year. However, due to pending decision of the Economic Coordination Committee to exempt the corporatized entities under the umbrella of WAPDA from requirements of the said Act, no provision of interest aggregating to Rupees 1,837.72 million (2019: Rupees 1,531.48 million) on unpaid amount has been recognized by the Company in these financial statements.
- 12.1.3 In addition to above-mentioned matters, large number of small cases have been filed against the Company, primarily by the Company's employees, customers and vendors, the quantum of which cannot be estimated reliably. However, the management is of the view that in the overall context of these financial statements, there would be no significant liability of the Company against such cases.

### 12.1.4 Income Tax

- (i) Additional Commissioner Inland Revenue amended the deemed assessments under section 120 of the Income Tax Ordinance, 2001 (the Ordinance) by passing an order under section 122(5A) of the Ordinance on the grounds that the minimum tax liability under section 113 was not discharged. He passed the orders vide DCR No. 10/07 dated 02 February 2015 and 19/18 dated 14 April 2015 for tax years 2010 and 2013 and created a demand of Rupees 5.63 million for the Tax Year 2010 and Rupees 109.82 million for the Tax Year 2013. Being aggrieved from the impugned orders, the Company filed appeals before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 05 May 2015 and the same was upheld by the Learned CIR(A). Appeal against the orders of -CIR(A) has been filed with the Appellate Tribunal Inland Revenue on 19
   October 2015 which is pending for adjudication.
- (ii) Inland Revenue Audit Officer passed an order no. DCR 01/54 dated 12 November 2007 for the tax year 2007 under section 161 and 205 of the Ordinance creating a demand amounting to Rupees 10.22 million on grounds that withholding tax was not timely deducted by the Company on payments to certain parties. Being aggrieved an appeal was filed with Commissioner Inland Revenue (Appeals) (CIR(A)) and same was upheld by the Learned CIR (A). Against the orders of Learned CIR(A), second appeal was filed before Appellate Tribunal Inland Revenue. The matter is pending for adjudication.
- (iii) Additional Commissioner Inland Revenue (ACIR) passed the orders vide 92/10 dated 26 February 2009 under section 113 of the Ordinance and charged income tax on turnover for the tax year 2007 amounting to Rupees 153 million and for the tax year 2008 amounting to Rupees 72 million along with default surcharge of Rupees 9.9 million and Rupees 2 million respectively. Being aggrieved from the impugned orders, the Company filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) and the same was upheld by the Learned CIR(A). Subsequently appeal against the orders of CIR(A) was filed with the Appellate Tribunal Inland Revenue (ATIR) on 14 May 2009 who upheld the orders of CIR (A). Being aggrieved with both forums writ petition is filed before Honorable Lahore High Court, Lahore vide petition no. PTR 43/2011 and PTR 44/2011. The Honorable Lahore High Court, Lahore remanded back the case to the full bench of ATIR, which is pending for adjudication.
- (iv) Additional Commissioner Inland Revenue amended the deemed assessment under section 122(5A) of the Ordinance for the tax year 2014 vide bar code no.100000008089093 dated 12 November 2015 on ground that the minimum tax liability under section 113 was not discharged and thereby raised a demand of Rupees 1,736 million. Being aggrieved an appeal was filed with Commissioner Inland Revenue (Appeals) on 03 December 2015 who upheld the said order and subsequently another appeal has been filed with Appellate Tribunal Inland Revenue on 05 April 2016, which is pending for adjudication.

- (v) The Inland Revenue Audit Officer (IRAO) made an assessment under sections 124, 162(1) and 205 of the Ordinance vide no. 10/62 dated 24 June 2015 for Tax Year-2010, 2011 and 2012 wherein he raised demand amounting to Rupees 52.906 million treating service fee for the collection of Pakistan Television (PTV) license fees as commission rather than as service fee. In this regard, an appeal has been filed before the Learned Commissioner Inland Revenue (Appeals) (CIR(A)) on 11 August 2015 which is decided in favor of the Company vide orders dated 29 March 2016 and case was remanded back to the concerned IRAO / Assistant Commissioner Inland Revenue (ACIR) with direction to recalculate the service fee according to the agreement between WAPDA and PTV. Against the order of CIR(A), Regional Tax Office, Multan has filed appeal before Appellate Tribunal Inland Revenue. The said appeal is pending for adjudication.
- (vi) Additional Commissioner Inland Revenue passed the order for tax year 2015 that the Company was liable to pay Rupees 893 million being higher of minimum tax under section 113 and 113 (C) of the Ordinance. The assessment already finalized under section 120(1) of the Ordinance, therefore, being erroneous in so far as prejudicial to the interest of revenue, is amended under section 122 of the Ordinance. Being aggrieved from the impugned order, the Company filed appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) and same was upheld by the learned CIR(A). Appeals against the orders of CIR(A) has been filed with the Appellate Tribunal Inland Revenue on 17 January 2017, which are pending for adjudication.
- (vii) Assistant Commissioner Inland Revenue passed the order under section 122(1) of the Ordinance vide 14/39 dated 22 June 2017 for the tax year 2011 that the Company was liable to pay Rupees 226 million due to violation of certain provisions of Ordinance. Being aggrieved from the impugned order, the Company filed appeal before the Commissioner Inland Revenue (Appeals) on 07 July 2017 which is pending for adjudication.
- (viii) Assistant Commissioner Inland Revenue started proceedings for amendment of assessment under section 122 of the Ordinance on 17 January 2018. By ignoring all submissions, the ACIR issued an order vide bar code no. 100000032291023 dated 13 April 2018 raising a demand of Rupees 1,294 million. Being aggrieved, the Company filed appeal before Commissioner Inland Revenue (Appeals) (CIR (A)) on 11 May 2018. The matter is pending for adjudication before CIR (A).
- (ix) Assistant Commissioner Inland Revenue issued an order vide bar code no. 100000026203200 dated 09 November 2017 under section 161 of the Ordinance and raised a demand of Rupees 191 million along with default surcharge of Rupees 13 million on the grounds that the Company failed to deduct income tax while making payment to certain parties. Being aggrieved with the orders the Company has filed an appeal before Commissioner Inland Revenue (Appeals) on 13 December 2017, the proceeding of which is pending.
- (x) The Inland Ravenue Audit Officer (IRAO) started proceedings under sections 161 and 205 of the Ordinance regarding discharging of liability to deduct income tax on different heads of account. By ignoring all submissions the Learned IRAO issued an order vide no. 10/47 dated 21 October 2013 and raised a demand of Rupees 718 million along with default surcharge of Rupees 161 million. Being aggrieved, the Company filed appeal before Commissioner Inland Revenue (Appeals) (CIR (A)) on 19 November 2013. The Learned CIR (A) issued an order dated 24 February 2014 and confirmed the demand of Rupees 379 million. A second appeal was filed before Appellate Tribunal Inland Revenue on 11 June 2014 who upheld the orders of CIR (A). Being aggrieved with both forums a writ petition vide tax reference no. 27 of 2014 was filed before Honorable Lahore High Court, Lahore who decided the case on 02 July 2016 in favor of the Company and deleted the demand of Rupees 301 million. To give effect to the judgment to decision of Honorable Lahore High Court, Lahore the Assistant Commissioner Inland Revenue issued appeal effect order and raised a demand of Rupees 78 million along with default surcharge of Rupees 66 million. Being aggrieved, further appeal was filed before CIR (A) on 15 December 2017 which is pending for adjudication.
- (xi) Assistant Commissioner Inland Revenue issued an order under section 161 of the Ordinance vide bar code no. 100000028613889 dated 04 January 2018 on the grounds that income tax was not deducted by the Company while making payment to certain parties during the tax years 2012 to 2015 and raised a demand of default surcharge of Rupees 277 million. Being aggrieved by the orders, an appeal was filed before Commissioner Inland Revenue (Appeals) (CIR (A)) on 01 February 2018. The Learned CIR (A) decided the case vide orders dated 24 April 2018 in favor of the Company by accepting the two contentions out of four. A second appeal was filed before Appellate Tribunal Inland Revenue for two contentions rejected by the Learned CIR (A). The ATIR remanded the case back to learned ACIR for rehearing. The Learned ACIR reordered against Company on the two contentions not accepted, for which appeal has been filed before CIR-A dated 22 June 2020 which is pending adjudication.
- (xii) Assistant Commissioner Inland Revenue (ACIR) started proceedings through show cause notice no. 826798-1 date 17 May 2018 under section 161 regarding advance tax collection of the differential amount of sales tax for tax year 2011. Subsequently, ACIR issued order no. 2/30 date 28 August 2018 and raised demand of income tax amounting to Rupees 307 million and default surcharge amounting to Rupees 363.668 million. Being aggrieved by the order, an appeal was filed before Commissioner Inland Revenue (Appeals) (CIR (A)) on 26 August 2018 which is pending for adjudication.
- (xiii) Assistant Commissioner Inland Revenue (ACIR) initiated proceedings through show cause notice vide document no. 100000033710411 dated 13 June 2018 under section 161 regarding advance tax collection of the differential amount of sales tax for tax year 2017. Subsequently, ACIR issued order no. 1/30 dated 27 August 2018 and raised demand of income tax amounting to Rupees 293 million and default surcharge amounting to Rupees 40.687 million. Being aggrieved by the order, an appeal was filed before Commissioner Inland Revenue (Appeals) (CIR (A)) on 26 August 2018 and same was upheld by the learned CIR(A). A second appeal was filed before Appellate Tribunal Inland Revenue which is pending for adjudication.

(xiv) Assistant Commissioner Inland Revenue initiated proceedings through notice bearing bar code no. 100000034664302 dated 02 July 2018 under section 161 questioning the compliance of income tax withholding on payment to CPPA on account to use of system charges during tax year 2017. By disregarding the reply submitted, ACIR issued order no. 4/30 dated 09 September 2018 and raised demand of income tax amounting to Rupees 293 million and default surcharge amounting to Rupees 42.7 million. Being aggrieved by the order, an appeal was filed before learned Commissioner Inland Revenue (Appeals) (CIR (A)) on 26 August 2018 and same was upheld by the learned CIR(A). A second appeal was filed before Appellate Tribunal Inland Revenue and the proceedings are still pending.

Aggregate provision of Rupees 6,528.53 million regarding the cases stated in paragraph numbers 12.1.4(i) to 12.1.4(xiv) has not been accounted for in the books of account of the Company as in the opinion of tax advisor, the favorable outcome of these cases is expected.

### Sales Tax:

- (xv) The Deputy Commissioner Inland Revenue (DCIR) has passed an order against the Company dated 19 November 2012 by treating the "Subsidy" aggregating to Rupees 24,739.75 million during the period from July 2010 to June 2011 as taxable supplies under the Sales Tax Act, 1990 (the Act) and also taxed unexplained differences amounting to Rupees 925.29 million and raised a demand of Rupees 4,363.05 million. Being aggrieved by the order, the Company filed an appeal before the Commissioner Inland Revenue (Appeals) who upheld the order of DCIR, afterwards second appeal was filed before the Appellate Tribunal Inland Revenue (ATIR) and vide its order number STA 247/LB/2013 dated 19 December 2014 the point of unexplained income was remanded back to DCIR and matter of subsidy was upheld against which the Company filed a writ petition before Honorable Lahore High Court, Lahore on 25 May 2018 who remanded back the case to the full bench of ATIR to decide the case which is still pending for adjudication.
- (xvi) The Deputy Commissioner Inland Revenue (DCIR) passed the order vide no. 21/2016 dated 02 May 2016 thereby alleging that the Company has paid less amount of sales tax withheld of Rupees 691.82 million for tax periods July 2014, August 2014, January 2015 and April 2015 in violation of sections 3(1)(A) of the Act. Against the said order of DCIR, the Company has filed an appeal before the Commissioner Inland Revenue (Appeais) who upheld the orders of DCIR. Afterwards, second appeal was filed before the Appellate Tribunal Inland Revenue who remanded back the case to DCIR vide order dated 18 April 2018. Later Assistant Commissioner Inland Revenue issued an order on 05 May 2019 by ignoring the contentions and submissions of the Company. Being aggrieved by the order, an appeal has been filled with CIR (A) which is pending for adjudication.
- (xvii) The Deputy Commissioner Inland Revenue (DCIR) has passed the order vide no. 20/2016 dated 02 May 2016 alleging that the Company has not charged and paid sales tax on supplies to retailers amounting Rupees 22.27 million during the tax periods of July 2014 and August 2014 and has directed the Company to deposit the same along with default surcharge and penalty of Rupees 1.11 million. The Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) who upheld the orders of DCIR on 27 March 2016. Being aggrieved, the Company has filed an appeal before Appellate Tribunal Inland Revenue who remanded back the case to DCIR vide order dated 18 April 2018. Later Assistant Commissioner Inland Revenue issued an order on 30 April 2019 by ignoring the contentions and submissions of the Company. Being aggrieved by the order, appeal has been filled before CIR (A), which is pending for adjudication.
- (xviii) The Deputy Commissioner Inland Revenue (DCIR) has passed the order vide no. 09/2016 dated 15 April 2016 alleging that the Company has not charged and paid sales tax amounting to Rupees 23 million from retailers during the month of October 2015 and has directed it to deposit the same along with default surcharge and penalty of Rupees 1.160 million. Against the orders of DCIR an appeal has been filed before the Commissioner Inland Revenue (Appeals) (CIR(A)) and CIR(A) has confirmed the orders of DCIR. Being aggrieved, the Company has filed an appeal before Appellate Tribunal Inland Revenue on 02 June 2018 which is pending for adjudication.
- (xix) The Deputy Commissioner Inland Revenue (DCIR) has passed an order against the Company dated 31 March 2014 on the grounds that the Company has less paid further tax amounting to Rupees 36.8 million and extra tax of Rupees 23.5 million for the tax period from July 2013 to October 2013. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) who upheld the order of DCIR vide order dated 02 May 2015. Afterwards, a second appeal was filed before Appellate Tribunal Inland Revenue on 06 June 2015 for which decision is awaited.
- (xx) The Deputy Commissioner Inland Revenue (DCIR) has passed an order vide no. 19/2016 dated 05 February 2016 on the grounds that the Company has supplied electricity to unregistered persons during the period from July 2014 to June 2015 without payment of sales tax amounting to Rupees 476 million, leviable thereon. Being aggrieved the Company has filed an appeal on 11 November 2016 before the Commissioner Inland Revenue (Appeals) who upheld the order of DCIR. Afterwards, a second appeal was filed before Appellate Tribunal Inland Revenue (ATIR). ATIR decided the case in favor of the Company vide order dated 18 April 2018 and remanded back the proceedings to the Learned DCIR / Assistant Commissioner Inland Revenue (ACIR). In second round of proceedings, Assistant Commissioner Inland Revenue (ACIR) once again issued order on 30 April 2019 by ignoring the contentions and submissions of the Company. Being aggrieved with the order an appeal has been filed before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is pending for adjudication.

- (xxi) The Deputy Commissioner Inland Revenue (DCIR) has passed an order against the Company dated 19 February 2016 and raised a demand amounting to Rupees 199 million on the grounds that the Company has made taxable supplies to three steel melters / rerollers but declared lesser quantity of electricity sold to buyers during the period from July 2011 to June 2015. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) who upheld the order of DCIR. Afterwards an appeal was filed before Appellate Tribunal Inland Revenue who remanded back the case to DCIR vide order dated 13 April 2013. In second round of proceedings Assistant Commissioner Inland Revenue (ACIR) once again issued orders on 02 April 2019 by ignoring the contentions and submissions of the Company. Being aggrieved with the order an appeal has been filed by the Company before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is pending for adjudication.
- (xxii) The Deputy Commissioner Inland Revenue (DCIR) has passed the order vide no. Audit unit-01/Corporate Zone/TAMS-0763/2010-11/529 dated 14 December 2016 on the grounds that the Company is required to pay sales tax on various heads amounting to Rupees 10,054 million. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 16 January 2017 who upheld the orders of DCIR. A second appeal was filed before Appellate Tribunal Inland Revenue (ATIR) dated 18 September 2017 which has been decided in favour of the Company and remanded the case to DCIR. Additional Commissioner Inland Revenue (ACIR) has once again made demand of sale tax amounting to Rupees 6,095 million and penalty of amounting to Rupees 304.780 million vide order no. 38/2019-ST dated 23 June 2020. Being aggrieved with the decision, an appeal was filed in CIR-A dated 29 July 2020 which is pending for adjudication.
- (xxiii) The Deputy Commissioner Inland Revenue (DCIR) has passed the order No. 95/2017 dated 27 April 2017 on the grounds that the Company is required to pay sales tax on various heads amounting to Rupees 17,185.81 million. Being aggreved the Company has filed an appeal before the Commissioner Inland Revenue (Appeais) (CIR(A)) on 25 May 2017. CIR (A) has decided the case by issuing order on 23 July 2018 in favor of the Company by annulling the orders of DCIR and directed him to provide appropriate opportunity of being heard. Proceedings of the case are pending before DCIR for adjudication.
- (xxiv) The Assistant Commissioner Inland Revenue (ACIR) has passed the order vide no. 84 dated 07 April 2017 and raised a demand of sales tax amounting to Rupees 51.9 million on the grounds that the Company has failed to pay extra tax and further tax on supply of electricity to unregistered persons during the period from July 2015 to September 2016. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 05 May 2017. The Learned CIR(A) has issued an order dated 11 April 2018 in favor of the Company by annulling the case. Now the case is pending before ACIR.
- (XXV) The Assistant Commissioner Inland Revenue (ACIR) has passed the order on 28 August 2017 and raised a demand of sales tax amounting to Rupees 565 million on the grounds that the Company has failed to deduct the sales tax during the tax periods from July 2014 to June 2016. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 06 October 2017. CIR(A) has decided the case in favor of the Company vide its order dated 11 April 2018 by annulling the order of the Learned ACIR. Now the case is pending before ACIR.
- (xxvi) The Assistant Commissioner Inland Revenue (ACIR) vide its show cause notice no. 684 dated 04 December 2017 raised question of withholding of sales tax amounting to Rupees 64 million. On submissions made by the Company, the ACIR accepted the contentions of the Company to the extent of Rupees 65 million and rejected the submission of Rupees 19 million. The ACIR issued an order vide 174/2018 dated 28 February 2018 and raised demand of sales tax amounting to Rupees 19 million along with default surcharge amounting to Rupees 1.9 million. Being aggrieved, the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 30 March 2018. CIR(A) issued an order on 10 August 2018 in favor of the Company and annulled the order of ACIR. Now the case is pending before the Learned ACIR.
- (xxvii) The Additional Commissioner Punjab Revenue Authority has issued an order vide no. ENF-I, Unit-01, WH/112/2015-17 dated 28 November 2016 alleging that the Company has failed to withhold PRA sales tax amounting to Rupees 1,645 million from payments made on account of services acquired by the Company. Being aggrieved with the order, the Company has filed an appeal before the Commissioner (Appeals) Punjab Revenue Authority (C(A)PRA). The C(A)PRA has issued an order vide no. 27/2017 dated 14 November 2017 reducing the tax liability to Rupees 71 million along with penalty of Rupees 3.5 million. Afterwards, the Company has filed second appeal before the Appellate Tribunal Punjab Revenue Authority on 22 December 2017, the decision of which is awaited.
- (xxviii) The Assistant Commissioner Inland Revenue (ACIR) initiated proceedings through notice no. 99 dated 15 August 2018 aileging that the Company has claimed inadmissible input tax amounting to Rupees 2.8 million. By ignoring the reply and supporting documents ACIR issued order against the Company and raised demand of sales tax amounting to Rupees 2.8 million. Being aggrieved with the order of ACIR the Company filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)). CIR(A) set aside the order and remanded the case back to Learned ACIR, which is still pending for adjudication.
- (xxix) The Assistant Commissioner Inland Revenue (ACIR) initiated proceedings through notice no. 151 dated 04 June 2018 alleging that the Company has claimed inadmissible input tax amounting to Rupees 33 million on purchase of cement. The ACIR issued order dated 17 August 2018 against the Company. Being aggrieved with the order of the ACIR the Company filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is still pending for adjudication.

- (xxx) The Assistant Commissioner Inland Revenue (ACIR) issued notice on 22 November 2018 alleging that the Company has not charged sales tax on electricity supplied to employees for free of cost. The ACIR issued order on 22 March 2019 and raised demand of sales tax amounting to Rupees 1,056.59 million. Being aggrieved with the order of the ACIR the Company filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is pending for adjudication.
- (xxxi) The Assistant Commissioner Inland Revenue (ACIR) issued notice on 22 November 2018 alleging that the Company has not charged sales tax on reconnection fee recovered from consumers. The ACIR issued order dated 20 March 2019 and raised demand of sales tax amounting to Rupees 9.35 million. Being acgrieved, an appeal was filed before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is still pending for adjudication.
- (xxxii) The Assistant Commissioner Inland Revenue (ACIR) issued notice on 22 November 2018 alleging that the Company has not charged sales tax on Tariff Differential Subsidy (TDS). The ACIR issued an order dated 18 March 2019 and raised a demand of sales tax amounting to Rupees 4,516.7 million. Being aggrieved, an appeal was filed before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is still pending for adjudication.
- (xxxiii) The Assistant Commissioner Inland Revenue (ACIR) issued notice dated 02 April 2019 alleging that the Company has filed sales tax returns after due date as prescribed in the Act. Subsequently, after year end the ACIR issued order dated 23 July 2019 against the Company and raised the demand of penalty and default surcharge amounting to Rupees 0.019 million and 5.103 million respectively. Being aggrieved, an appeal against the order has been filed on 23 August 2019, before the Commissioner Inland Revenue (Appeals) (CIR(A)). CIR(A) decided the case in favor of the Company on 06 August 2020 by annulling the order of ACIR and remanded the case back to ACIR for review of facts. It is now pending for adjudication before ACIR.

Aggregate provision of Rupees 35,732.22 million relating to the above stated paragraph numbers 12.1.4(xv) to 12.1.4(xxxiii) has not been recorded in the books of account of the Company on the advice of tax advisor of the Company.

### 12.2 Commitments

Letters of credit for capital expenditure and other than capital expenditure are of Rupees 2,516.084 million (2019: Rupees 1,153.065 million). Keeping in view the nature of Company's business, segregation of capital expenditure and other than capital expenditure is not possible at this stage.

	•	2020 RUPSES	2019 RUPEES
13,	PROPERTY, PLANT AND EQUIPMENT		
	Capital work-in-progress (Note 13.1)	15,040,135,950	10,899,402,994
	Operating fixed assets (Note 13.2)	102,631,884,734	97,990,414,860
		117,672,020,684	108,889,817,854
13.1	Capital work-in-progress		
	Civil works	239,918,365	209,407,849
	Distribution equipment (Note 13.1.2)	14,800,217,585	10,689,995,145
	•	15,040,135,950	10,899,402,994
13.1.1	Movement in capital work-in-progress		
	Balance at 01 July	10,899,402,994	11,161,660,296
	Add: Additions during the year	\$,140,108,075	8,562,460,880
		19,039,511,069	19,724,121,176
	Less:	۲ <u>۰۰۰۰</u> ۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰	
9	Transferred to operating fixed assets (13.1.4)	3,975,209,944	8,795,912,542
	Impairment charged during the year (Note 26)	24,165,175	28,805,640
		3,999,375,119	8,824,718,182
	Balance as at 30 June	15,040,135,950	10,899,402,994

**13.1.2** These include borrowing cost of Rupees 40.851 million (2019: Rupees 144.401 million) incurred specifically to finance the construction of distribution equipment. The capitalization rate used was 15.557 (2019: 15.557) percent per annum.

13.1.3 Depreciation capitalized related to capital work-in-progress was Rupees 7.052 million (2019: Rupees 5.581 million). Moreover operating expenses of Rupees 673.786 million (2019: Rupees 412.367 million) have also been included in capital work-in-progress.

13.1.4 Opening work transferred to operating fixed assets	2,162,185,137	4,010,964,366
Work started during the year and transferred to operating fixed assets	1,813,024,807	4,784,948,176
Total work transferred to cperating fixed assets	3,975,209,944	8,795,912,542
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#### 13.2 OPERATING FIXED ASSETS

	Land -Freehold	Land -Leasehold	Buildings on freehold land	Office equipment	Distribution equipment	Other plant and equipment	Vehicles	Totai
		·		(RUPEE	S)			** ** ** ** ** ** ** ** ** ** ** ** **
At 30 June 2018 Cost Accumulated depreciation	358,679,002	2,277,338 (790,164)	4,036,180,530 (983,983,732)	565,703,381 (270,653,629)	123,981,113,872 (39,265,641,728)	509,950,673 (311,702,375)	1,019,094,116 (773,550,353)	130,472,998,912 (41,606,321,981)
Net book value	358,679,002	1,487,174	3,052,196,798	295,049,752	84,715,472,144	198,248,298	245,543,763	88,866,676,931
Year ended 30 June 2019 Opening net book value	358,679,002	1,487,174	3,052,196,798	295,049,752	84,715,472,144	198,248,298	<b>245,5</b> 43,763	88,866,676,931
Additions	37,177,432	-	300,673,209	51,866,521	13,077,759,651	351,470,595	3,496,100	13,822,443,508
Disposals Depreciation charge	-	-	(82,265,161)	(46,946,611)	(4,485,036,782)	(39,520,936)	(44,936,089)	(4,698,705,579)
Closing net book value	395,856,434	1,487,174	3,270,604,846	299,969,662	93,308,195,013	510,197,957	204,103,774	97,990,414,860
<b>At 30 June 2019</b> Cost Accumulated depreciation	395,856,434	2,277,338 (790,164)	4,336,853,739 (1,066,248,893)	617,569,902 (317,600,240)	137,058,873,523 (43,750,678,510)	861,421,268 (351,223,311)	1,022,590,216 (818,486,442)	144,295,442,420 (46,305,027,560)
Net book value	395,856,434	1,487,174	3,270,604,846	299,969,662	93,308,195,013	510,197,957	204,103,774	97,990,414,860
Year ended 30 June 2020 Opening net book value	395,856,434	1,487,174	3,270,604,846	299,969,662	93,308,195,013	510,197,957	204,103,774	97,990,414,860
Additions Depreciation charge	•	- / _	248,640,822 (87,523,125)	16,368,405 (52,115,502)	9,388,284,352 (4,874,010,566)	78,052,335 (69,690,906)	38,387,311 (44,923,252)	9,769,733,225 (5,128,263,351)
Closing net book value	395,856,434	1,487,174	3,431,722,543	264,222,565	97,822,468,799	518,559,386	197,567,833	102,631,884,734
At 30 June 2020 Cost Accumulated depreciation	395,856,434	2,277,338 (790,164)	4,585,494,561 (1,153,772,018)	633,938,307 (369,715,742)	146,447,157,875 (48,624,689,076)	939,473,603 (420,914,217)	1,060,977,527 (863,409,694)	154,065,175,645 (51,433,290,911)
Net book value	395,856,434	1,482,174	3,431,722,543	264,222,565	97,822,468,799	518,559,386	197,567,833	102,631,884,734
Annual rate of depreciation (%)	-	-	2	10	3.5	10	10	

13.2.1 The property and rights in the above assets were transferred to the Company on 01 July 1998 by WAPDA in accordance with the terms and conditions of the Business Transfer Agreement (BTA) executed between WAPDA and the Company.

13.2.2 Furniture and fixture have been included in other plant and equipment and computers have been clubbed in office equipment.

13.2.3 Title of some of freehold land has not been transferred with the name of Company. Book value of such freehold land is not available separately.

13.2.4 On 01 March 2019, the Company entered into an Authorization and Interest agreement with Power Holding (Private) Limited (PHPL) and Meezan Bank Limited (MBL), in which Company authorized PHPL to carry out "Certain Actions" in relation to Relevant Transaction Assets representing freehold land at Bahawalpur, Khanpur, Dera Ghazi Khan, Jampur, Bahawalnagar, Multan, Tounsa Shareef, Arlfwala and Sahiwal having combined area of 1181 kanal and 14 marta amounting to Rupees 256,940,077. Certain Actions include selling the Relevant Transaction Assets to MBL and creating a security interest over the same for the purpose of enabling PHPL to raise financing through the Sukuk issue. In addition to this agreement, PHPL entered into an Asset Purchase Agreement with MBL for selling the Relevant Transaction Assets to MBL which include the land of the Company and of other distribution and generation companies for a total purchase price of Rupees 200,000 million against which Sukuk certificates will be issued by PHPL for a period of ten years.

		2020 RUPEES	2019 RUPEES
13.3	Depreciation charge for the year has been allocated as follows:		
	Operating cost Capital work-in-progress (Note 13.1.3)	5,121,211,315 7,052,036	4,693,124,291 5,581,288
		5,128,263,351	4,698,705,579
14.	INTANGIBLE ASSET		
	Computer Softwares		
	Opening book value Amortization charged during the year	10,101,690 (10,101,690)	27,397,086 (17,295,396)
	Closing book value		10,101,690
	Cost Accumulated amortization	86,476,981 (86,476,981)	86,476,981 (76,375,291)
	Net book value	-	10,101,690
	Amortization rate (per annum)	20%	20%

14.1 These include SAP software, Dongle Software and Global Positioning System (GPS).

## 15. LONG TERM LOANS AND ADVANCES

#### Considered good - secured:

House building / purchase of plots	90,045,510	92,255,426
Vehicles	24,478,291	26,017,795
	114,523,801	118,283,221
Less: Current portion shown under current assets (Note 19)	33,129,197	37,652,796
	<u></u>	80,630,425

**15.1** Loans for house building and purchase of plot are repayable in ten years, car and motor cycle loans in five years and bicycle loans in four years. As per Company's policy, interest is charged equal to the profit rate applied on 'General Provident Fund' which is 12 percent (2019: 14.35 percent) per annum. The principal amount is recoverable in equal monthly installments and interest is recoverable in lump sum at the time of final settlement of loans. These loans are secured by mortgage of immovable property and hypothecation of vehicles.

## 16. LONG TERM DEPOSITS

These represent security deposits with utility companies against connections.

#### 17. STORES AND SPARE PARTS

	Stores	5,93 <b>9</b> ,215,725	7,644,539,367
	Spare parts	460,287,893	540,936,597
		6,399,503,619	8,185,475,964
	Less: Provision for slow moving and obsolete items of stores and spare parts (Note 17.1)	70,822,917	82,050,115
		6,328,680,702	8,103,425,849
17.1	Provision for slow moving and obsolete items of stores and spare parts	an an an an an an an an an an an an an a	
	Balance as at 01 July	82,050,115	91,734,823
	Less: Reversal of provision for slow moving and obsolete items (Note 27)	(11,227,198)	(9,684,708)
	Balance as at 30 June	70,822,917	82,050,115

		2020 RUPEES	2019 RUPEES
18.	TRADE DEBTS		
	Partially secured:		
	Considered good	62,669,478,427	40,472,778,854
	Less: Allowance for expected credit losses (Note 18.2)	(11,467,624,501)	(10,983,587,907)
		51,201,853,926	29,489,190,947

18.1 Trade debts include the amount receivable from domestic consumers up to 300 units, in respect of Prime Minister's Relief Package for deferred payment of electricity bill due to COVID-19 pandemic. As per the directions by Government of Pakistan, the bills are collectable in the form of three installments. Trade debts include the deferred amount against the consumers, who have opt for the installments. The said amount accumulates to a total of Rupees 13,416.803 million. Late Payment Surcharge (LPS) will not be levied in case of non-payment by such consumers. In addition to this, no mark-up will be charged on the deferred amount.

18.2	Allowance for expected credit losses		
	Balance as at 01 July	10,983,587,907	4,073,166,345
	Add: Expected credit loss allowance for the year (Note 26)	583,580,214	6,955,204,725
		11,567,168,121	11,028,371,070
	Less:		
	Trade debts written off against allowance for expected credit losses	99,543,620	44,783,163
	Balance as at 30 June	11,467,624,501	10,983,587,907

18.3 Trade debts are partially secured to the extent of corresponding consumers' security deposits. Trade debts as at the reporting date are classified into domestic, commercial, agriculture, public lights, residential colonies and others.

18.4 As at 30 June, ageing analysis of these trade debts is as follows:

19.

20.

Not past due yet	8,638,252,225	4,787,273,305
Due upto 2 months	6,244,919,178	3,059,737,138
2 to 3 months	12,799,344,560	233,942,274
3 to 6 months	4,486,842,359	412,429,391
6 months to 1 year	579,226,900	1,649,131,771
1 year to 3 years	2,163,782,601	2,602,765,852
3 years and above	2,575,475,002	2,588,707,385
Balances due from Government	16,802,787,025	16,802,787,025
Deferred arrears (1 year to 3 years)	8,378,848,577	8,336,004,713
	52,669,478,427	40,472,778,854
Less: Allowance for expected credit losses	11,467,624,501	10,983,587,907
	51,201,853,926	29,489,190,947
LOANS AND ADVANCES		
Considered good:		
Employees against expenses	41,519,632	37,316,143
Advances to suppliers .	246,144,386	274,951,942
Current portion of long term loans and advances (Note 15)	33,129,197	37,652,796
	320,793,215	349,920,881
OTHER RECEIVABLES		
Considered good:		
Due from associated companies / undertakings (Note 20.1)	3,511,540,561	3,537,293,994
Sales tax receivable from consumers	20,730,719,043	13,438,739,583
Agriculture subsidy receivable from Government of Punjab	150,006,763	150,006,763
Tariff differential subsidy receivable from Government of Pakistan	65,699,063,554	39,910,496,354
Prime Minister's relief package for Small and Medium Enterprises	2 000 052 050	
(Note 20.13)	3,988,253,868	-
Duties, charges and taxes (Note 20,14) Receivable against damaged items during warraphy period	41 007 873	38 006 675
Others	108,084,775	90,071,962
	94,228,676,437	57,164,705,281
		27

		2020 RUPEES	2019 RUPEES
20.1	Due from associated companies / undertakings		
	Jamshoro Power Company Limited (GENCO-I) Central Power Generation Company Limited (GENCO-II) Northern Power Generation Company Limited (GENCO-III) Lakhra Power Generation Company Limited (GENCO-IV) Lahore Electric Supply Company Limited (LESCO) Quetta Electric Supply Company Limited (QESCO) Islamabad Electric Supply Company Limited (IESCO) Peshawar Electric Supply Company Limited (PESCO) WAPDA Current Account WAPDA Welfare Fund	2,195,004 239,247,169 954,432,843 949,483 386,439,776 79,092,350 79,159,620 451,296,860 997,648,536 321,078,920	1,556,133 293,995,215 976,059,922 571,003 416,582,705 68,769,763 79,450,779 454,627,978 947,323,847 289,356,640
		3,511,540,561	3.537.293.994

**20.2** The ageing analysis of amounts due from associated companies / undertakings is as follows:

Upto 6 months	273,929,548	391,284,359
6 months to 1 year	191,684,540	366,504,653
1 year to 3 years	311,584,761	501,070,040
3 years and above	2,734,341,712	2,278,434,942
	3,511,540,561	3,537,293,994

**20.3** The maximum aggregate amount due from Jamshoro Power Company Limited (GENCO-I) at the end of any month during the year was Rupees 2.29 million (2019: Rupees 3.22 million).

20.4 The maximum aggregate amount due from Central Power Generation Company Limited (GENCO-II) at the end of any month during the year was Rupees 363.20 million (2019: Rupees 303.74 million).

**20.5** The maximum aggregate amount due from Northern Power Generation Company Limited (GENCO-III) at the end of any month during the year was Rupees 962.56 million (2019: Rupees 993.01 million).

**20.6** The maximum aggregate amount due from Lakhra Power Generation Company Limited (GENCO-IV) at the end of any month during the year was Rupees 0.95 million (2019: Rupees 0.99 million).

**20.7** The maximum aggregate amount due from Lahore Electric Supply Company Limited (LESCO) at the end of any month during the year was Rupees 434.22 million (2019: Rupees 480.11 million).

**20.8** The maximum aggregate amount due from Quetta Electric Supply Company Limited (QESCO) at the end of any month during the year was Rupees 89.85 million (2019: Rupees 68.77 million).

**20.9** The maximum aggregate amount due from Islamabad Electric Supply Company Limited (IESCO) at the end of any month during the year was Rupeës 81.97 million (2019: Rupees 102.15 million).

**20.10** The maximum aggregate amount due from Peshawar Electric Supply Company Limited (PESCO) at the end of any month during the year was Rupees 474.17 million (2019: Rupees 528.55 million).

**20.11** The maximum aggregate amount due from Water and Power Development Authority (WAPDA) current account at the end of any month during the year was Rupees 11,143.84 million (2018: Rupees 1,373.43 million).

**20.12** The maximum aggregate amount due from Water and Power Development Authority (WAPDA) welfare fund at the end of any month during the year was Rupees 292.66 million (2019: Rupees 298.36 million).

**20.13** This relief was allowed under the Prime Minister's Relief Package to Small and Medium Enterprises (SMEs). This relief was given to commercial and industrial consumers based upon the electricity consumption from May 2019 to July 2019. Maximum relief allowed to commercial consumers and industrial consumers was upto Rupees 100,000 and Rupees 450,000 upto 3 months (i.e. October 2020), provided that the connected load of commercial consumers and industrial consumers is upto 5KW and 70KW respectively.

		2020 RUPEES	2019 RUPEES
20.14	Duties, charges and taxes		
	Receivables not yet realized:		
	Electricity duty	204,041,508	265,120,574
	Income tax	440,920,276	321,219,743
	Other taxes	132,291,224	87,308,477
	Neelum Jhelum surcharge	390,475,913	231,922,348
	Debt service surcharge	1,820,686,518	906,830,035
	Universal obligation surcharge	137,775,551	155,525,181
	T.V. license fee	390,475,913	117,366,195
	Equalization surcharge	7,195,653	8,807,433
		3,523,862,556	2,094,099,986
	Payables not yet realized:		
	Electricity duty	(204,041,508)	(265,120,574)
	Income tax	(440,920,276)	(321,219,743)
	Other taxes	(132,291,224)	(87,308,477)
	Neelum Jheium surcharge	(390,475,913)	(231,922,348)
	Debt service surcharge	(1,820,686,518)	(906,830,035)
	Universal obligation surcharge	(137,775,551)	(155,525,181)
	T.V. license fee	(390,475,913)	(117,366,195)
	Equalization surcharge	(7,195,653)	(8,807,433)
		(3,523,862,556)	(2,094,099,986)
			·····

**20.14.1** These represent the amounts billed to the customers on behalf of the respective authorities and are receivable at year end which have been netted off against their respective payables.

#### 21. TAX REFUNDS DUE FROM GOVERNMENT

	Income tax Sales tax	2,551,409,801 2,069,701,801	1,868,796,960 4,810,490,611
		4,621,111,602	6,679,287,571
22	CASH AND BANK BALANCES		
	Current accounts	452,976,140	29,123,711
	Deposit accounts (Note 22.1)	4,913,909,263	1,801,134,333
	Term deposit receipts (Note 22.2)	12,001,000,000	8,627,629,754
		17,367,885,403	10,457,887,798
	Cash in hand	. 41,273	-
		17,367,926,676	10,457,887,798

**22.1** Rate of profit on deposit accounts ranges from 3.25 percent to 6.50 percent (2019: 3.75 percent to 10.25 percent) per annum.

22.2 These represent term deposit receipts placed with different banks having maturity period of one to three (2019: one to three) months at profit rates ranging from 7.10 percent to 10.75 percent (2019: 10.00 percent to 12.50 percent) per annum.

#### 23. SALES OF ELECTRICITY

Less: Sales tax	33,888,338,111	28,109,096,311
	199,343,165,359	165,347,625,359

### 24. TARIFF DIFFERENTIAL SUBSIDY

This represents the tariff subsidy claimed from the Government of Pakistan as the difference between rates determined by NEPRA and rates charged to the consumers as notified by the Government of Pakistan from time to time.

#### 25. COST OF ELECTRICITY

The Company purchased electricity from CPPA and other private power producers. The electricity purchased during the year has been accounted for according to invoices issued by CPPA and adjusted in accordance with monthly fuel price adjustment determined and notified by NEPRA.

RUPEES         RUPEES           26.         OPERATING EXPENSES EXCLUDING DEPRECIATION         9,543,846,206         9,174,535,394           Salaries, wages and other benefits         12,222,238,214         8,673,846,893         8,673,846,893           Repair and maintenance         1,278,679,966         1,272,5590,787         174,535,590,787           Travelling and conveyance         951,774,379         985,538,113         Bitechrichy bils collection charges         452,774,915         515,747,368           Advertising and publicity         24,237,891         49,167,906         91,762,805         92,663,274           Advertising and publicity         24,237,991         112,211,083         91,173,885         92,137,885           Computer and outside services         608,448,685         52,660,324         112,211,083         91,173,885           Computer and outside services         182,575,566         121,387,617         843,843         92,725,566         121,387,617           Rent, rates and taxes         25,131,993         23,411,165         183,865         52,660,324         183,863         184,845         52,660,324           Management frees         152,556         121,387,617         843,942,72,659         34,941,165         183,943         34,12,72,659         141,65,175         24,805,440         145,1			2020	2019
26.         OPERATING EXPENSES EXCLUDING DEPRECIATION         Statics, wages and other benefits         9,543,846,206         9,174,535,394           Staff retirement benefits         12,232,359,214         8,673,946,893         Repair and maintenance         1,728,679,986         1,728,579,979         585,588,113           Travelling and conveyance         951,774,573         985,557         144,323,786,79         586,747,145           Travelling and conveyance         12,232,879,216         1,57,47,868         1,728,679,986         1,728,679,986           Travelling and conveyance         24,327,581         43,657,906         24,327,581         43,657,906           Office supplies and publicity         24,237,581         43,657,906         1,50,000         90wer, light and water         112,211,033         91,173,885           Computer and outside services         608,448,665         526,603,244         665,21,26         1,80,001           Management fees         152,557,586         121,387,617         7,811,165         1,832,504,42,503         1,802,600         2,857,785         1,238,564,72           Allowance for expected credit losses (Note 13.1)         124,165,175         28,805,640         9,92,956,500,220         32,352,557,975         29,296,600,220         32,352,557,975         29,296,600,220         32,352,557,975         29,296,600,220			RUPEES	RUPEES
Salaries, wages and other benefits         9,543,846,206         9,174,535,294           Staff retirement benefits (Note 6.2)         12,222,839,214         6,678,846,833           Repair and maintenance         17,226,579,986         1,725,590,787           Travelling and conveyance         951,254,373         985,563,113           Electricity bills collection charges         452,719,415         515,747,868           Transportation         399,307,873         364,247,145           Advertising and publicity         24,237,581         49,167,906           Office supplies and other expenses         249,959,567         241,123,900           Legal and professional         39,265,783         33,865,767           Auditors' remuneration (Note 26.1)         12,221,090         1,150,000           Power, light and water         112,211,083         91,173,885           Computer and oxitage encises         608,448,685         552,603,244           Management frees         12,237,991         66,623,126           Management frees         12,357,519         66,603,124           Insurance         13,247,617         28,305,640           Morkners profit participation fund (Note 10.4)         89,942,068         2,732,203,527,975           Less: Charged to capital work in progress (Note 13.1.1)         24,165	26.	OPERATING EXPENSES EXCLUDING DEPRECIATION		
Staff retirement benefits (Note 6.2)         12,222,899,214         6,678,846,593           Repair and maintenance         1,725,679,866         1,725,593,795           Travelling and conveyance         951,754,379         985,508,113           Electricity bills collection charges         452,719,415         515,747,868           Transportation         399,307,873         364,247,145           Advertising and oublicity         24,237,811         49,167,906           Office supplies and other expenses         24,99,993,557         242,132,811           Legal and professional         39,285,783         33,865,767           Auditors' remuneration (Note 26.1)         1,2,297,500         1,150,000           Power, light and water         112,211,083         91,173,885           Computer and outside services         608,448,665         52,603,244           Telephone and postage         54,772,519         66,623,126           Management feas         152,575,566         121,387,617           Allowance for expected credit losses (Note 15.2)         583,560,214         6,955,204,725           Scharge loss         1,972,980,600,203         2,3232,557,975           Less: Charged to capital work in progress (Note 13.1.1)         543,451,518         31,940,190,116           Other cariffications fee		Salaries, wages and other benefits	9.543.846 206	9 174 535 394
Repair and maintenance         1,728,579,986         1,728,579,986         1,728,579,986           Travelling and conveyance         951,754,379         985,563,113           Electricity bills collection charges         452,719,415         515,747,688           Transportation         399,307,873         364,247,145           Advertising and publicity         24,237,581         49,167,906           Office supplies and other expenses         249,959,567         242,123,990           Legal and professional         39,267,787,300         1,150,000           Power, light and water         112,211,083         91,173,885           Computer and oxiside services         608,448,685         526,603,244           Telephone and postage         54,772,519         66,623,126           Management frees         12,25,75,866         121,387,617           Rent, rates and taxes         25,131,993         32,411,165           Insurance         34,722,519         66,623,126           Allowance for expected credit losses (Note 13.2)         583,502,14         6,952,064           Workers' profit pation fund (Note 10.4)         86,942,068         -           Workers' profit pation fund (Note 10.4)         86,942,068         -           Unter erificazions fee         1,650,000         150,000 <th></th> <th>Staff retirement benefits (Note 6.2)</th> <th>12 232 839 214</th> <th>8 678 846 893</th>		Staff retirement benefits (Note 6.2)	12 232 839 214	8 678 846 893
Travelling and conveyance         951,754,379         985,638,113           Electricity bills collection charges         452,719,415         513,747,268           Transportation         399,307,873         364,247,145           Advertising and publicity         24,237,581         491,67,906           Office supplies and other expenses         24,939,557         242,123,900           Legal and professional         39,285,783         33,865,767           Auditor's remuneration (Note 26.1)         2,2897,500         1,150,000           Power, light and water         112,211,083         91,173,885           Computer and outside services         608,448,685         526,603,244           Trates and taxes         122,157,566         121,387,617           Insurance         33,044,384         34,272,659           Allowance for expected credit losses (Note 18.2)         583,500,214         6,955,204,725           Exchange loss         1,972,804,018         2,732,320,512           Impairment of capital work in progress (Note 13.1.1)         24,165,175         28,805,640           Worker's profit participation fund (Note 10.4)         6,942,066         32,325,57,975           Less: Charged to capital work in progress (Note 13.1.3)         28,22,281,31,41         31,940,190,116           26.1         A		Renair and maintenance	1 728 679 986	1 725 590 787
Electricity bills collection charges         452,719,415         515,747,668           Transportation         399,307,3364,247,145         44,275,861         49,167,906           Advertising and publicity         24,237,881         49,167,906         24,237,881         49,167,906           Using and professional         24,237,881         33,865,767         40,002         33,865,767           Auditors remuneration (Note 26.1)         2,49,958,573         34,84,685         52,603,244           Telephone and postage         60,8448,685         526,603,244           Telephone and postage         54,772,519         66,623,126           Management fees         12,357,586         121,387,617           Rent, rates and taxes         25,131,993 - 23,411,165           Insurance         33,044,394         34,272,569           Allowance for expected credit losses (Note 13.1)         24,465,175         28,052,640           Worker's profit participation fund (Note 10.4)         86,942,068         -           Other charges (Note 26.2)         1,973,804,016         27,32,320,532           Less: Charged to capital work-in-progress (Note 13.1.3)         67,78,606         412,367,859           26.1         Auditor's remuneration         28,622,613,514         31,940,108,116           Audit fee		Travelling and conveyance	951 754 379	985 638 113
Transportation       399,307,823       364,247,145         Advertising and publicity       24,237,814       49,167,906         Office supplies and other expenses       24,237,814       49,167,906         Legal and professional       39,287,831       33,865,767         Auditor's remuneration (Note 26.1)       1,2,897,800       1,150,000         Power, light and water       112,211,083       91,173,885         Computer and outside services       608,448,685       526,603,244         Trates and taxes       122,513,993       23,411,165         Insurance       33,044,384       34,272,659         Allowance for expected credit losses (Note 18.2)       533,044,384       34,272,659         Exchange loss       1,973,800,018       2,733,230,547         Uworks' profit participation fund (Note 10.4)       86,642,068       -         Other charges (Note 26.2)       1,973,800,018       2,733,232,557,975         Less: Charged to capital work-in-progress (Note 13.1.3)       67,27,860,020       32,252,557,975         Less: Charged to capital work-in-progress (Note 13.1.3)       67,27,860       31,940,190,116         Auditor's remuneration       1,072,500       850,000       -         Auditor's remuneration       2,286,22,813,514       31,940,190,116 <td< th=""><th></th><th>Electricity hills collection charges</th><th>452,719,415</th><th>515 747 868</th></td<>		Electricity hills collection charges	452,719,415	515 747 868
Advertising and publicity         24,237,581 - 49,167,906           Office supplies and other expenses         249,935,967 - 242,123,990           Legal and professional         39,285,783 - 33,865,767 - 4uditors' remuneration (Note 26.1)           Power, light and water         11,2,297,590 - 1,150,000           Power, light and water         11,23,759 - 66,623,126           Computer and outside services         608,448,865 - 526,603,244           Telephone and postage         54,772,519 - 66,623,126           Management fees         112,237,581 - 121,387,617 -           Rent, rates and taxes         25,13,993 - 23,411,165           Insurance         33,044,384 - 34,272,559           Allowance for expected credit losses (Note 18.2)         553,200,214 - 6,955,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 525,204,725 - 526,503,204 - 6,955,204,725 - 526,503,204 - 6,955,204,725 - 526,503,204 - 6,955,204,725 - 526,503,204 - 6,955,204,725 - 526,503,204 - 6,955,204,725 - 526,503,204 - 6,955,204,725 - 526,503,204 - 6,955,204,725 - 526,503,204 - 6,955,204,725 - 526,503,204 - 6,953,206,700 - 23,3725,557,975 - 528,505,60 - 23,3726,002 - 23,352,557,975 - 528,505,60 - 23,3726,002 - 23,352,557,975 - 528,500,200 - 23,3726,002 - 23,3725,557,975 - 528,500,00 - 150,000 -		Transportation	399.307.873	364,247,145
Office supplies and other expenses         249,959,557         242,123,990           Legal and professional         39,285,783         33,865,767           Auditors' remuneration (Note 26.1)         2,287,700         1,130,000           Power, light and water         112,211,083         91,173,885           Computer and outside services         608,448,685         526,603,244           Telephone and postage         54,772,519         66,623,126           Management fees         122,211,893         21,31,993         23,411,165           Insurance         33,044,384         34,272,659         Allowance for expected credit losses (Note 13.1.1)         24,165,175         28,205,264           Worker's proft participation fund (Note 10.4)         86,942,068         2,732,320,532         29,296,600,220         2,732,320,532           Other charges (Note 26.2)         1.972,804,018         2,732,785,766         412,367,859           Less: Charged to capital work-in-progress (Note 13.1.3)         673,786,776         412,13,7859           Conter cartifications fee         1,072,500         850,000           Reimbursable expenses         175,000         150,000           Z2,897,500         1,150,000         2,887,200         1,150,000           Des include supplemental charges of Rupees 1,847.91 million (2019; Rupees 2,171.1		Advertising and publicity	24,237,581	49 167 906
Legal and professional         39,285,783         33,365,767           Auditors' remuneration (Note 26.1)         1,2,211,083         91,123,885           Computer and outside services         608,448,685         526,603,244           Telephone and postage         54,772,519         66,623,126           Management fees         12,257,556         121,387,617           Rent, rates and taxes         23,044,384         34,272,659           Allowance for expected credit losses (Note 13.2)         583,580,214         6,955,204,725           Exchange loss         1,841,518         Impairment of capital work in progress (Note 13.1.1)         24,165,17         28,805,640           Workers' profit participation fund (Note 10.4)         86,942,068         -         -           Other charges (Note 26.2)         29,295,600,220         32,352,557,975         -           Less: Charged to capital work-in-progress (Note 13.1.3)         673,766,706         412,367,859           Zeb,206.00         20,352,557,975         Less: Charged to capital work-in-progress (Note 13.1.3)         23,625,700         150,000           Solutior's remuneration         23,926,600         203,232,557,975         29,295,600,220         32,352,557,975           Less: Charged to capital work-in-progress (Note 13.1.3)         573,706,706         412,367,859         150,000		Office supplies and other expenses	249,959,567	242,123,990
Auditor's remuneration (Note 26.1)       2,897,500       1,150,000         Power, light and water       112,211,083       91,173,885         Computer and postage       54,772,519       66,623,126         Management fees       122,587,586       121,387,617         Rent, rates and taxes       25,131,993       23,411,165         Insurance       33,444,384       34,272,659         Allowance for expected credit losses (Note 13.2)       533,520,214       6,955,204,725         Exchange loss       -404,991       1,841,518         Impairment of capital work in progress (Note 13.1.1)       24,165,175       28,805,640         Worker's profit participation fund (Note 10.4)       86,942,068       2,732,320,532         Other charges (Note 26.2)       1,972,804,018       2,732,320,532         Less: Charged to capital work-in-progress (Note 13.1.3)       673,786,706       412,367,859         26.1       Auditor's remuneration       31,940,190,116       28,622,813,514       31,940,190,116         26.1       Audit fee       1,072,500       850,000       150,000         Other certifications fee       1,630,000       150,000       150,000         Rembursable expenses       175,000       150,000       2,371,19       150,000         Company, which com		Legal and professional	39,285,783	33.865.767~
Power, light and water         112,211,083         91,173,885           Computer and outside services         608,448,685         526,603,244           Telephore and postage         54,772,519         66,623,126           Management fees         152,557,586         121,387,617           Rent, rates and taxes         23,144,384         34,272,659           Allowance for expected credit losses (Note 18.2)         583,500,214         6,955,204,725           Exchange loss         404,691         1,841,513           Impairment of capital work in progress (Note 13.1.1)         24,165,175         28,805,640           Worker's profit participation fund (Note 10.4)         86,942,068         -           Other charges (Note 26.2)         1,973,804,018         2,732,320,532           Less: Charged to capital work-in-progress (Note 13.1.3)         673,786,706         412,367,859           Other certifications fee         1,500,000         150,000           Audit fee         1,072,500         850,000           Other certifications fee         1,570,000         150,000           Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPS) to CPPA on the basis of average outstanding balance.         -           Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers		Auditors' remuneration (Note 26.1)	2.897.500	1,150,000
Computer and outside services         526,603,244           Telephone and postage         54,772,519           Management fees         152,557,586		Power light and water	112 211 083	91 173 885
Telephone and postage         54,772,519         66,623,126           Management fees         152,567,586         121,387,617           Rentr, rates and taxes         25,131,993         23,411,165           Insurance         33,044,384         34,272,559           Allowance for expected credit losses (Note 18.2)         583,520,214         6,955,204,725           Exchange loss         404,991         1,841,513           Impairment of capital work in progress (Note 13.1.1)         24,165,175         28,805,640           Workers' profit participation fund (Note 10.4)         86,942,068         -           Other charges (Note 26.2)         1,973,804,018         2,732,320,532           Less: Charged to capital work-in-progress (Note 13.1.3)         26,73,78,706         412,367,859           Z8,622,813,514         31,940,190,116         21,327,500         12,307,950           Auditor's remuneration         1,072,500         \$50,000         10,000           Audit fee         1,072,500         1,000         2,307,500           Other certifications fee         1,450,000         150,000           Remt, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producars (IPPS) to CPPA on the basis of average outstanding balance.         -         1,620,497,713         - 823,414,653		Computer and outside services	608.448.685	526.603.244
Management fees         12,257,566         121,387,617           Rent, rates and taxes         122,537,566         121,387,617           Rent, rates and taxes         132,537,566         121,387,617           Allowance for expected credit losses (Note 13.2)         533,520,214         6,955,204,725           Exchange loss         404,991         1,841,518           Impairment of capital work in progress (Note 13.1.1)         24,165,175         28,805,640           Workers' profit participation fund (Note 10.4)         86,942,068         -           Other charges (Note 26.2)         1.979,804,018         2.732,320,532           Less: Charged to capital work-in-progress (Note 13.1.3)         673,786,706         412,367,859           Auditor's remuneration         1.630,000         150,000           Audit fee         1,072,500         850,000           Other cartifications fee         1,630,000         150,000           Reimbursable expenses         175,000         1,150,000           26.2         These include supplemental charges of Rupees 1,847.91 million (2019: Rupees 2,171.19 million) passed on the Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance.         -           7.0         OTHER INCOME         1,847,910,761         -         - </th <th></th> <th>Telephone and postage</th> <th>54 772 519</th> <th>66 623 126</th>		Telephone and postage	54 772 519	66 623 126
Rent, rates and taxes       25,131,993       23,411,165         Insurance       33,044,384       34,272,559         Allowance for expected credit losses (Note 13.2)       583,500,214       6,955,204,725         Exchange loss		Management fees	152,567,586	121 387 617
Insurance       33,044,384       34,272,659         Allowance for expected credit losses (Note 13.2)       533,044,384       34,272,659         Exchange loss       404,991       1,841,518         Impairment of capital work in progress (Note 13.1.1)       24,165,175       28,0640         Workers' profit participation fund (Note 10.4)       86,942,068       -         Other charges (Note 26.2)       1,979,904,018       2,732,320,532         Less: Charged to capital work-in-progress (Note 13.1.3)       673,786,706       412,367,859         26.1       Auditor's remuneration       -       1,072,500       \$50,000         Audit fee       1,072,500       \$50,000       150,000         Other centifications fee       1,650,000       11,150,000       11,150,000         Zest (IPPs) to CPPA on the basis of average outstanding balance.       27,001,220       23,324,4653         Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance.       -       -       1,620,497,713       623,414,653         Two long the deposits and term deposit receipts       -       -       1,620,497,713       623,414,653         Two long the deposits and term deposit receipts       -       1,620,497,713       623,414,653         Two		Rent, rates and taxes	25.131.993	23.411.165
Allowance for expected credit losses (Note 13.2)       532,00,724       6,955,206,725         Exchange loss       404,991       1,841,518         Impairment of capital work in progress (Note 13.1.1)       24,165,175       28,805,640         Workers' profit participation fund (Note 10.4)       86,942,068       2,732,320,532         Other charges (Note 26.2)       1,972,804,018       2,732,320,532         Less: Charged to capital work-in-progress (Note 13.1.3)       673,786,706       412,367,859         Zes,622,813,514       31,940,190,115       31,940,190,115         Zes,622,813,514       31,940,190,115       31,940,190,0115         Zes,700       1,50,000       150,000       150,000         Zes,700       1,50,000       150,000       1,150,000         Zes,700       1,50,000       1,150,000       2,88,750         Zes,700       1,271,19       1,191,100       passed on the Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPS) to CPPA on the basis of average outstanding			33 044 384	34 272 659
Exchange loss         0.000,000           Impairment of capital work in progress (Note 13.1.1)         24,165,175         28,805,640           Workers' profit participation fund (Note 10.4)         86,942,068         -           Other charges (Note 26.2)         1,973,804,018         2,732,320,552           Less: Charged to capital work-in-progress (Note 13.1.3)         29,296,600,220         32,352,557,975           Less: Charged to capital work-in-progress (Note 13.1.3)         27,3264,018         2,732,320,552           Auditor's remuneration         28,622,813,514         31,940,190,116           Audit fee         1,072,500         \$50,000           Other certifications fee         1,550,000         150,000           Reimbursable expenses         175,000         150,000           28,622,813,514         31,940,190,116           Charges (Note 26.2)         2,837,500         1,150,000           28,00         1,50,000         150,000         2,837,500         1,150,000           28,02,94,04,04,04,07,713         633,414,653         -         1,620,497,713         623,414,653           Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance.         -         1,620,497,713         623,414,653           Income f		Allowance for expected credit losses (Note 18.2)	583.580.214	6.955.204.725
Impairment of capital work in progress (Note 13.1.1)       24,165,175       28,805,640         Workers' profit participation fund (Note 10.4)       86,942,068       2732,320,532         Other charges (Note 26.2)       1,979,804,018       2,732,320,532         Less: Charged to capital work-in-progress (Note 13.1.3)       673,786,706       412,367,859         28,622,813,514       31,940,190,116         26.1       Auditor's remuneration         Audit fee       1,072,500       \$50,000         Other certifications fee       1,650,000       150,000         Rembursable expenses       175,000       150,000         27, Other certifications fee       1,637,706       412,367,859         (IPPs) to CPPA on the basis of average outstanding balance.       1,550,000       1,155,000         27, OTHER INCOME       -1,620,497,713       623,414,653         Income from financial assets       -1,647,910,761       -2,171,197,235         7, V. licer.se fee services       3,468,408,474       2,994,611,888         Income from non-financial assets       -1,620,497,713       623,414,653         T.V. licer.se fee services       77,935,906       91,111,175,024,408,474       2,994,611,888         Income from non-financial assets       -1,620,497,713       623,414,653       -2,72,144,653		Fychange loss	404 991	1 841 518
Workers' profit participation fund (Note 10.4) $1,972,904,018$ $2,732,320,532$ Other charges (Note 26.2) $1,972,904,018$ $2,732,320,532$ Less: Charged to capital work-in-progress (Note 13.1.3) $66,942,068$ $2,732,320,532$ <b>26.1</b> Auditor's remuneration $28,622,813,514$ $31,940,190,116$ Audit fee $1,072,500$ $850,000$ Other certifications fee $1,650,000$ $150,000$ Reimbursable expenses $1,75,000$ $150,000$ <b>26.2</b> These include supplemental charges of Rupces 1,847.91 million (2019: Rupces 2,171,19 million) passed on the Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance. <b>27.OTHER INCOMEIncome from financial assets</b> $-1,620,497,713$ $623,414,653$ Profit on bank deposits and term deposit receipts $-1,620,497,713$ $623,414,653$ Late payment surcharge $3,468,408,474$ $2,994,611,888$ <b>Income from financial assets</b> $72,970,122$ $77,933,906$ Meter / service rent $37,216,164$ $49,675,225$ Meter / service charges $37,216,164$ $51,222,439$ Sale of scrap $6,67,636,839$ $96,639,4954$ $40,699,631$ Credit balances written back $8,72,16,164$ $51,222,439$ Reversal of provision for slow moving and obsolete items of stores $11,227,198$ $9,684,768$ and spare parts (Note 17.1) $929,511$ $929,5511$ Miscellaneous $929,5511$ $929,5511$		Impairment of capital work in progress (Note 13.1.1)	24.165.175	28,805,640
Other charges (Note 26.2)         1,979,804,018         2,732,320,532           Less: Charged to capital work-in-progress (Note 13.1.3)         673,786,706         412,367,859           Less: Charged to capital work-in-progress (Note 13.1.3)         673,786,706         412,367,859           26.1         Auditor's remuneration         28,622,813,514         31,940,190,116           Audit fee         1,072,500         850,000         150,000           Other certifications fee         1,650,000         150,000         150,000           Reimbursable expenses         1,75,000         150,000         1,150,000           26.2         These include supplemental charges of Rupees 1,847.91 million (2019: Rupees 2,171.19 million) passed on the Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance.        1,620,497,713         -623,414,653           Income from financial assets        1,847,910,761        2,171,197,235         -2,994,611,888           Income from non-financial assets        1,847,910,761         -2,171,197,235         -70,440,954           Miscellaneous service charges         3,468,408,474         2,994,611,888         -70,440,954           Miscellaneous service charges         77,935,906         -91,181,175         -70,440,954           Sale of scrap         <		Workers' profit participation fund (Note 10.4)	86 942 068	-
Solid and got (note both)         Solid and got (note both)           29,295,600,220         23,252,57975           Less: Charged to capital work-in-progress (Note 13.1.3)         673,786,706         412,367,859           26.1         Auditor's remuneration         31,940,190,116           Audit fee         1,072,500         \$50,000           Other certifications fee         1,072,500         \$50,000           Reimbursable expenses         175,000         150,000           27,000         150,000         150,000           28.77,500         1,150,000         150,000           28.77,500         1,150,000         1,50,000           28.97,500         1,150,000         1,50,000           28.97,500         1,150,000         1,50,000           28.97,500         1,150,000         1,50,000           28.97,500         1,150,000         1,50,000           28.97,500         1,150,000         1,150,000           29.98,100         CPPA on the basis of average outstanding balance.         2,837,500         1,150,000           27.0         OTHER INCOME         -1,620,497,713         623,414,653         -2,171,197,235           Adde,408,474         2,994,611,888         -1,620,497,713         -2,171,197,235         -70,440,954 </th <th></th> <td>Other charges (Note 26.2)</td> <td>1.979 804 018</td> <td>2 732 320 532</td>		Other charges (Note 26.2)	1.979 804 018	2 732 320 532
Less: Charged to capital work-in-progress (Note 13.1.3)       673,786,706       412,367,859         26.1       Auditor's remuneration       31,940,190,115         Audit fee       1,072,500       \$50,000         Other certifications fee       1,650,000       150,000         Reimbursable expenses       1,650,000       150,000         26.2       These include supplemental charges of Rupees 1,847.91 million (2019: Rupees 2,171.19 million) passed on the Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance.         27.       OTHER INCOME         Income from financial assets      1,620,497,713       823,414,653         Profit on back deposits and term deposit receipts      1,620,497,713       823,414,653         Late payment surcharge      1,620,497,713       823,414,653         T.V. license fee services      1,847,910,761      2,171,197,235         Meter / service rent       72,970,122       -70,440,954         Miscellaneous service charges       31,185,467       40,675,225         Sale of scrap       -5,854,9494       -6,626,899         Credit balences written back       -7,2440,954       -70,440,954         Reversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)       11,227,198			29 296 600 220	32 352 557 975
Class charged to deption work in progress (note 15.1.5)Or $J_1/00_1/00_1$ District of the progress of		Less: Charged to capital work-in-progress (Note 13.1.3)	673 786 706	412 367 859
26.1         Auditor's remuneration           Audit fee         1,072,500         \$50,000           Other certifications fee         1,650,000         150,000           Reimbursable expenses         175,000         150,000           26.2         These include supplemental charges of Rupees 1,847.91 million (2019: Rupees 2,171.19 million) passed on the Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance.           27.         OTHER INCOME           Income from financial assets        1,620,497,713         - 823,414,653           Profit on bank deposits and term deposit receipts        1,620,497,713         - 823,414,653           Late payment surcharge        1,847,910,761         - 2,171,197,235           Weter / service rent        1,847,910,761         - 2,171,197,235           Miscelianeous service charges         31,185,467         -70,440,954           Miscelianeous service charges         -55,854,948         -67,636,839           Sale of scrap         -56,394,954         -67,636,839           Credit balances written back         37,216,164         51,222,439           Reversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)         9,684,768         11,227,198         9,684,768           Miscel		cess. Charged to capital work in progress (note 15.1.5)		31 040 100 116
Addit fee1,072,500 $$50,000$ Other certifications fee $1,530,000$ $150,000$ Reimbursable expenses $175,000$ $150,000$ 2.897,500 $1,190,000$ 2.897,500 $1,190,000$ 2.994,611,888 $-1,620,497,713$ 1.0000 $823,414,653$ 2.994,611,888 $-1,847,910,761$ 2.994,611,888 $49,675,225$ 3.468,408,474 $2,994,611,888$ 1.0000 $1,185,467$ 2.994,611,888 $31,185,467$ 1.997,910,721 $-70,440,954$ 3.468,408,474 $2,994,611,75$ 9.810 of scrap $55,854,948$ 9.96,394,954 $46,869,963$ 9.96,394,954 $46,869,963$ 9.96,34,954 $37,216,164$ 9.96,84,72	26.1	Auditor's remuneration	20,022,013,314	51,540,190,110
Addit ree $1,072,500$ $330,000$ Other certifications fee $1,650,000$ $150,000$ Reimbursable expenses $175,000$ $150,000$ <b>26.2</b> These include supplemental charges of Rupees 1,847.91 million (2019: Rupees 2,171.19 million) passed on the Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance. <b>27.</b> OTHER INCOMEIncome from financial assetsProfit on bank deposits and term deposit receiptsLate payment surchargeIncome from non-financial assetsT.V. license fee servicesMiscellaneous service chargesReconnection feesSale of scrapCredit balances written backReversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)MiscellaneousMiscellaneousReversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)MiscellaneousMiscellaneousReversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)MiscellaneousMiscellaneousSale of scrapCredit balances written backReversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)MiscellaneousMiscellaneousMiscellaneousReversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)MiscellaneousMiscellaneousMiscellaneousReversal of provision for slow moving and obsolete items of st	20,2		1 077 500	950 000
1,050,00010,000Reimbursable expenses175,000150,00026.2These include supplemental charges of Rupees 1,847.91 million (2019: Rupees 2,171.19 million) passed on the Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance.27. OTHER INCOMEIncome from financial assetsProfit on bank deposits and term deposit receipts1,620,497,713623,414,653Late payment surcharge1,847,910,7612,171,197,235Income from non-financial assets2,970,122-70,440,954T.V. license fee services31,185,46740,675,225Meter / service rant72,970,122-70,440,954Miscellaneous service charges55,854,94867,636,839Sale of scrap-96,394,95446,869,963Credit balances written back9,634,9541,227,198Reversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)9,644,768Miscellaneous1,227,1989,684,768Miscellaneous9,6394,9541,620,995,511		Audit lee .	1,072,000	150,000
Instance expensesInstanceIns		Deimburgable european	175.000	150,000
26.2       These include supplemental charges of Rupees 1,847.91 million (2019: Rupees 2,171.19 million) passed on the Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance.         27.       OTHER INCOME         Income from financial assets       -1,620,497,713       823,414,653         Profit on bank deposits and term deposit receipts       -1,620,497,713       823,414,653         Late payment surcharge       -1,847,910,761       -2,171,197,235         Income from non-financial assets       -1,847,910,761       -2,171,197,235         T.V. license fee services       31,185,467       40,675,225         Meter / service rent       -72,970,122       -70,440,954         Miscellaneous service charges       55,854,948       -67,636,839         Sale of scrap       -96,394,954       46,869,963         Credit balances written back       37,216,164       51,222,439         Reversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)       11,227,198       9,684,708         Miscellaneous       290,364,236       440,599,511       440,599,511		Reinbulsable expenses	273,000	150,000
<ul> <li>26.2 These include supplemental charges of Rupees 1,847.91 million (2019: Rupees 2,171.19 million) passed on the Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance.</li> <li>27. OTHER INCOME <ul> <li>Income from financial assets</li> <li>Profit on bank deposits and term deposit receipts</li> <li>Late payment surcharge</li> <li>T.V. license fee services</li> <li>Meter / service rent</li> <li>Miscellaneous service charges</li> <li>Sale of scrap</li> <li>Credit balances written back</li> <li>Reversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)</li> <li>Miscellaneous</li> </ul> </li> </ul>			2,897,500	1,150,000
Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance. 27. OTHER INCOME Income from financial assets Profit on bank deposits and term deposit receipts Late payment surcharge1,620,497,713 - 823,414,653 1,847,910,7612,171,197,235 3,468,408,474 2,994,611,888 Income from non-financial assets T.V. license fee services Meter / service rant Miscellaneous service charges Sale of scrap Credit balances written back Reversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1) Miscellaneous service	26.2	These include supplemental charges of Rupees 1,847.91 million (201	9: Rupees 2,171.19 mil	lion) passed on the
(IPPs) to CPPA on the basis of average outstanding balance.27. OTHER INCOMEIncome from financial assetsProfit on bank deposits and term deposit receipts-1,620,497,713823,414,653Late payment surcharge-1,847,910,761-2,171,197,2353,468,408,4742,994,611,888Income from non-financial assetsT.V. license fee services31,185,467Meter / service rent-72,970,122Miscellaneous service charges-77,935,906Sale of scrap-55,854,948Credit balances written back-96,394,954Reversal of provision for slow moving and obsolete items of stores37,216,164Miscellaneous ser11,227,1989,584,708290,364,236440,599,511		Company, which comprise re-allocation of mark-up on late payments	imposed by Independe	nt Power Producers
27. OTHER INCOME         Income from financial assets         Profit on bank deposits and term deposit receipts         Late payment surcharge         Income from non-financial assets         T.V. license fee services         Meter / service rent         Miscellaneous service charges         Sale of scrap         Credit balances written back         Reversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)         Miscellaneous is		(IPPs) to CPPA on the basis of average outstanding balance.		
Income from financial assets         Profit on bank deposits and term deposit receipts         Late payment surcharge         Income from non-financial assets         T.V. license fee services         Miscellaneous service charges         Sale of scrap         Credit balances written back         Reversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)         Miscellaneous         Miscellaneous         Sale of scrap         Credit balances written back         Reversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)         Miscellaneous         Miscellaneous         Sale of scrap         11,227,198         290,364,236         40,675,225         -70,440,954         -71,935,906         -55,854,948         -96,394,954         -96,394,954         -96,394,954         -96,394,954         -96,394,954         -96,394,954         -96,894,708         -96,894,708         -96,894,236	27.	OTHER INCOME		
Profit on bank deposits and term deposit receipts Late payment surcharge $-1,620,497,713$ $-1,847,910,761$ $823,414,653$ $-2,171,197,235$ $2,994,611,888$ Income from non-financial assets $31,185,467$ $-72,970,122$ $40,675,225$ $-70,440,954$ Meter / service rent Miscellaneous service charges $31,185,467$ $-72,970,122$ $40,675,225$ $-70,440,954$ Sale of scrap Credit balances written back Reversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1) $9,684,708$ $440,599,511$		Income from financial assets		
Late payment surcharge $-1,847,910,761$ $-2,171,197,235$ Late payment surcharge $-1,847,910,761$ $-2,171,197,235$ <b>Income from non-financial assets</b> $31,185,467$ $40,675,225$ T.V. license fee services $31,185,467$ $40,675,225$ Meter / service rant $-72,970,122$ $-70,440,954$ Miscellaneous service charges $77,935,906$ $91,181,175$ Reconnection fees $-55,854,948$ $-67,636,839$ Sale of scrap $-96,394,954$ $46,869,963$ Credit balances written back $37,216,164$ $51,222,439$ Reversal of provision for slow moving and obsolete items of stores $11,227,198$ $9,684,708$ and spare parts (Note 17.1) $11,227,198$ $9,684,708$ Miscellaneous $290,364,236$ $440,599,511$		Profit on bank deposits and term deposit receipts		823,414,653
3,468,408,474       2,994,611,888         3,468,408,474       2,994,611,888         T.V. license fee services         Meter / service rent       31,185,467       40,675,225         Miscellaneous service charges       77,935,906       91,181,175         Reconnection fees       55,854,948       67,636,839         Sale of scrap       -96,394,954       46,869,963         Credit balances written back       37,216,164       51,222,439         Reversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)       11,227,198       9,684,708         Miscellaneous       290,364,236       440,599,511		Late payment surcharge	1,847,910,761	- 2,171,197,235
Income from non-financial assets         31,185,467         40,675,225           T.V. license fee services         -72,970,122         -70,440,954           Miscellaneous service charges         77,935,906         91,181,175           Reconnection fees         55,854,948         67,636,839           Sale of scrap         -96,394,954         46,869,963           Credit balances written back         37,216,164         51,222,439           Reversal of provision for slow moving and obsolete items of stores and spare parts (Note 17.1)         11,227,198         9,684,708           Miscellaneous         290,364,236         440,599,511         440,599,511			3.468,408,474	2,994,611,888
T.V. license fee services       31,185,467       40,675,225         Meter / service rant       -72,970,122       -70,440,954         Miscellaneous service charges       .77,935,906       91,181,175         Reconnection fees       .55,854,948       .67,636,839         Sale of scrap       .96,394,954       46,869,963         Credit balances written back       .37,216,164       51,222,439         Reversal of provision for slow moving and obsolete items of stores       .11,227,198       9,684,708         Miscellaneous       .290,364,236       .440,599,511		Income from non-financial assets	, , ,	, , ,
Meter / service rant       -72,970,122       -70,440,954         Miscellaneous service charges       .77,935,906       .91,181,175         Reconnection fees       .55,854,948       .67,636,839         Sale of scrap       .96,394,954       46,869,963         Credit balances written back       .37,216,164       51,222,439         Reversal of provision for slow moving and obsolete items of stores       .11,227,198       9,684,708         Miscellaneous       .290,364,236       .440,599,511		T.V. license fee services	31.185.467	40.675.225
Miscellaneous service charges       .77,935,906       .91,181,175         Reconnection fees       .55,854,948       .67,636,839         Sale of scrap       .96,394,954       .46,869,963         Credit balances written back       .37,216,164       .51,222,439         Reversal of provision for slow moving and obsolete items of stores       .11,227,198       .9,684,708         Miscellaneous       .290,364,236       .440,599,511		Meter / sentice rent	72.970.122	-70,440,954
Reconnection fees       55,854,948       67,636,839         Sale of scrap       -96,394,954       46,869,963         Credit balances written back       37,216,164       51,222,439         Reversal of provision for slow moving and obsolete items of stores       11,227,198       9,584,708         Miscellanceus       290,364,236       440,599,511		Miscellaneous service charges	77,935,906	91.181.175
<ul> <li>Sale of scrap</li> <li>Credit balances written back</li> <li>Reversal of provision for slow moving and obsolete items of stores</li> <li>and spare parts (Note 17.1)</li> <li>Miscellanceus</li> <li>290,364,236</li> <li>40,599,511</li> </ul>		Reconnection fees	55,854,948	67.636.839
Credit balances written back37,216,16451,222,439Reversal of provision for slow moving and obsolete items of stores11,227,1989,684,708and spare parts (Note 17.1)290,364,236440,599,511		Sale of scrap	-96.394.954	46.869.963
Reversal of provision for slow moving and obsolete items of stores     11,227,198     9,584,708       And spare parts (Note 17.1)     290,364,236     440,599,511	•	Credit balances written back	37,216.164	51,222,439
and spare parts (Note 17.1) 11,227,198 9,684,708 Miscellaneous 290,364,236 440,599,511		Reversal of provision for slow moving and obsolete items of stores		
Miscellageous 290.364,236 440,599,511		and spare parts (Note 17.1)	11,227,198	9,584,708
		Miscellaneous	290,364,236	440,599,511

	4,141,557,469
	2020 RUPEES
FINANCE COST	
Mark-up on long term financing Mark-up transferred from GoP	1,431,235,173 775,719,361

28.

Bank charges and commission

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2,310,169,24	11
	35

818,310,814

3,812,922,702

1,336,863,528

968,853,134

4,452,579

2019 RUPEES

Restated

673,148,995

2,211,859,833

4,905,299

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		2020 RUPEES	2019 RUPEES
29.	TAXATION		
29.1	Current		
	For the year	1,275,956,097	

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Provision for current taxation represents minimum tax under section 113 of the Income Tax Ordinance 2001 adjusted by brought forward tax credit for non-equity investment in plant and machinery under repealed section 65B of the Ordinance. However tariff differential subsidy from Government of Pakistan is excluded from turnover of the Company as it constitutes exempt income. Reconciliation of tax expenses and product of accounting profit multiplied by the applicable tax rate is not required in view of accumulated tax losses of the Company of Rupees 552,103.374 million (2019: Rupees 509,824.357 million).

		2020 RUPEES	2019 RUPEES
29.2	Deferred		
	Deferred income tax effect due to:		
	Accelerated tax depreciation	18,654,645,054	17,541,708,604
	Allowance for expected credit losses	(3,325,611,105)	(3,185,240,493)
	Provision for slow moving and obsolete items of stores and spare parts	(20,538,646)	(23,794,533)
	Staff retirement benefits	(23,368,978,322)	(22,960,871,093)
	Unused tax losses and credit	(160,109,978,443)	(151,581,851,680)
	Net deferred income tax asset	(168,170,461,462)	(160,210,049,195)
	Unrecognized deferred income tax asset (Note 29.3)	168,170,461,462	160,210,049,195

**29.3** Deferred income tax asset has not been recognized in these financial statements due to uncertainty in availability of sufficient future taxable profits as these temporary differences are not likely to reverse in the foreseeable future.

			2020	2019 Restated
30.	EARNINGS / (LOSS) PER SHARE - BASIC AN	D DILUTED		
	Basic earnings / (loss) per share Profit / (loss) after taxation	(Rupees)	375,943,195	(22,802,484,250)
	Weighted average number of ordinary shares	(Numbers)	1 082 363 604	1 082 363 604
	Earnings / (loss) per share - Basic	(Rupees)	0.35	(21.07)
	Diluted earnings / (loss) per share Profit / (loss) after taxation	(Rupees)	375,943,195	(22,802,484,250)
	Weighted average number of ordinary shares including deposit for shares	(Numbers)	4 216 126 821	4 216 126 321
	Earnings / (loss) per share - Diluted	(Rupees)	0.09	(5.41)
			2020 RUPEES	2019 RUPEES Restated
31.	CASH GENERATED FROM OPERATIONS			
	Profit / (loss) before taxation		1,651,899,292	(22,802,484,250)
	Adjustments for non-cash charges and other	items:		
	Depreciation	•	5,121,211,315	~ 4,693,124,291
	Provision for staff retirement benefits		12,232,839,214	8,578,846,893
	Amortization of intangible asset		10,101,690	17,295,396
	Amortization of deferred credit		(2,952,291,619)	(2,758,528,394)
	Allowance for expected credit losses		583,580,214	6,955,204,725
	Provision for slow moving and obsolete items of	f stores and spare		
	parts reversed during the year		(11,227,198)	(9,684,708)
	Provision for workers' profit participation fund		86,942,068	-
	Impairment of capital work-in-progress		24,165,175	28,805,640
	Profit on bank deposits		(1,620,497,713)	(823,414,653)
	Credit balances written back		37,216,164	51,222,439
	Exchange loss		404,991	1,841,518
	Finance cost		× 2,211,859,833	2,290,013,937
	working capital changes (Note 31.1)		12 660 152 660	7 001 905 104
			12,000,155,000	7,301,003,194

•••	<b></b>	2020 RUPEES	2019 RUPEES
31.1	Working capital changes		
	Decrease / (increase) in current assets		
	Stores and spare parts	1,785,972,345	(2,330,155,914)
	Trade debts	(22,296,243,193)	3,295,447,596
	Loans and advances	24,604,067	60,627,357
	Other receivables	(37,063,971,156)	532,697,255
	Tax refunds due from Government	2,058,175,969	3,994,576,528
		(55,491,461,968)	5,553,192,822
	Increase in trade and other payables	50,975,412,202	6,026,369,538
		(4,516,049,766)	11,579,562,360

## 31.2 Reconciliation of movement of liabilities to cash flows arising from financing activities:

	2020			
	Long term financing	Long term security deposits	Receipt against deposit works and deferred credit	Total
		RUPEES		
Balance as at 01 July 2019	14,187,596,150	9,179,842,474	77,917,852,306	101,285,290,930
Repayment of financing	(38,108,009)	-	-	(38,108,009)
Security deposits received	-	999,541,157	-	999,541,157
Receipts against deposit work received-net	-	-	10,561,490,996	10,561,490,996
Amortization of deferred credit	-	-	(2,952,291,619)	(2,952,291,619)
Balance as at 30 June 2020	14,149,488,141	10,179,383,631	85,527,051,683	109,855.923,455

	2019			
	Long term financing	Long term security deposits	Receipt against deposit works and deferrad credit	Total
		RUPEES	t	
Balance as at 01 July 2018	13,707,273,169	8,164,534,805	72,669,102,565	94,540,910,539
Financing obtained	554,481,341	-	-	554,481,341
Repayment of financing	(74,158,360)	-	-	(74,158,360)
Security deposits received	-	1,015,307,669	-	1,015,307,669
Receipts against deposit work received-net	-	-	8,007,278,135	8,007,278,135
Amortization of deferred credit	-		(2,758,528,394)	(2,758,528,394)
Balance as at 30 June 2019	14.187.596.150	9.179.842.474	77,917,852,306	101.285.290.930

#### 32. REMUNERATION OF CHIEF EXECUTIVE OFFICER, DIRECTORS AND EXECUTIVES

Aggregate amount charged in these financial statements in respect of remuneration including all benefits to the Chief Executive Officer, directors and executives of the Company are as follows:

	2020 -	2019	2020	2019
	Chief Executiv	e Officer	Executi	ves
	RUPEES	RUPEES	RUPEES	RUPEES
Basic pay	2,147,350	1,586,760	82,352,760	80,558,880
Allowances	7,004,059	2,414,243	99,504,108	78,638,736
Meeting fee	1,162,500	980,000	-	-
	10,313,909	4,981,003	181,856,868	159,197,616
Number of persons	1	1	55	53

**32.1** The Chief Executive Officer is provided unfurnished accommodation, free electricity, free use of Company's maintained vehicle and telephone facility as per the Company's rules. Moreover, all executives are provided free electricity and some of the executives are also provided unfurnished accommodation, free use of Company's maintained vehicle and telephone facility as per Company's rules.

32.2 Aggregate amount charged in the financial statements for meeting fee to 10 (2019: 10) directors was Rupees 7.17 million (2019: Rupees 4.45 million).

32.3 No remuneration was paid to any Director of the Company.

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#### TRANSACTIONS WITH RELATED PARTIES 77

Related parties comprise associated companies / undertakings and key management personnel. Detail of transactions with related parties, other than those which have been disclosed eisewhere in these financial statements, are as follows: \_ \_ \_ \_

Associated companies / undertakings:	NO. 223
Purchase of electricity 248,407,080,166	225,725,413,330
Free supply of electricity provided to employees of associated companies 208,965,955	244,230,937
Free supply of electricity received by employees of the Company 87,603,004	135,700,088
Electricity bills of the Company received by associated companies 1,554,532	1,248,138
Electricity bills of associated companies received by the Company 2,128,484	1,233,493
Pension paid to employees of associated companies 1,055,633,331	888,608,506
Pension received by employees of the Company from associated companies 257,060,297	278,587,181
Finance cost 2,206,954,534	2,285,561,358

33.1 Detail of compensation to key management personnel comprising of Chief Executive Officer, directors and executives is disclosed in Note 32.

#### 33.2 Associated companies / undertakings with whom the Company have transactions during the year:

Jamshoro Power Company Limited (GENCO-I) Central Power Generation Company Limited (GENCO-II) Northern Power Generation Company Limited (GENCO-III) Lakhra Power Generation Company Limited (GENCO-IV) National Transmission and Despatch Company Limited (NTDC) Central Power Purchasing Agency (Guarantee) Limited (CPPA) Lahore Electric Supply Company Limited (LESCO) Quetta Electric Supply Company Limited (QESCO) Islamabad Electric Supply Company Limited (IESCO) Peshawar Electric Supply Company Limited (PESCO) Hyderabad Electric Supply Company Limited (HESCO) Sukkur Electric Power Company Limited (SEPCO) Faisalabad Electric Supply Company Limited (FESCO) Gujranwala Electric Power Company Limited (GEPCO) Water and Power Development Authority (WAPDA) Power Information Technology Company (Private) Limited (PITC)

33.2.1 The Company and all of the above mentioned companies / undertakings are under common control of GoP with the Ministry of Water and Power. -------

NUMPER OF ENDIOYEES	2020	2019
NUMBER OF EMPLOYEES		
Number of employees as on 30 June	. 16 174	17 108
Average number of employees during the year	16 235	17 036
FINANCIAL RISK MANAGEMENT		

#### 35.1 Financial risk factors

34.

35.

The Company's activities expose it to a variety of financial risks: market risk (including currency risk, other price risk and interest rate risk), credit risk and liquidity risk. The Company's overall risk management programme focuses on the unpredictability of financial markets and seeks to minimize potential adverse effects on the Company's financial performance.

Risk management is carried out by the Company's Board of Directors. The Board provides principles for overall risk management, as well as policies covering specific areas such as currency risk, other price risk, interest rate risk, credit risk, liquidity risk, investment of excess liquidity and use of non-derivative financial instruments.

#### (a) Market risk

Market risk is the risk that changes in market prices, such as foreign exchange rates, interest rates and equity prices, which affect the Company's income or the value of its holdings of financial instruments. The objective of market risk management is to manage and control market risk exposures within acceptable parameters, while optimizing returns.

#### (i) Currency risk

Currency risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in foreign exchange rates. Currency risk arises mainly from future commercial transactions or receivables and payables that exist due to transactions in foreign currencies.

The Company is exposed to currency risk arising from currency exposure, primarily with respect to the United States Dollar (USD). Currently, the Company's foreign exchange risk exposure is restricted to the amounts receivable from the foreign entities. The Company's exposure to currency risk was as follows: 2010 2020

	2020	2010
Trade and other payables - USD	47,545	47,646
Following significant exchange rates were applied during the year:		
Rupees per US Dollar Average rate Reporting date rate	164.50 168.75	140.92 160.25

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#### Sensitivity analysis

If the functional currency, at reporting date, had weakened / strengthened by 5% against the USD with all other variables held constant, the impact on profit / (loss) after taxation for the year would have been Rupees 0.382 million lower / higher (2019: Rupees 0.382 million higher / lower), mainly as a result of exchange losses / gains on translation of foreign exchange denominated financial instruments. Currency risk sensitivity to foreign exchange movements has been calculated on a symmetric basis. Since the amount exposed to currency risk is negligible, therefore any adverse / favorable movement in functional currency in respect of USD will not have any material impact on the operational results.

#### (ii) Other price risk

Other price risk represents the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices (other than those arising from interest rate risk or currency risk), whether those changes are caused by factors specific to the individual financial instrument or its issuer, or factors affecting all similar financial instruments traded in the market. The Company is not exposed to commodity price risk.

#### (iii) Interest rate risk

This represents the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates.

The Company's interest rate risk arises from long term financing, long term advances, bank balances in saving accounts and term deposit receipts. Financial instruments at variable rates expose the Company to cash flow interest rate risk. Financial instruments at fixed rate expose the Company to fair value interest rate risk.

At the reporting date the interest rate profile of the Company's interest bearing financial instruments was:

	2020 RUPEES	2019 RUPEES
Fixed rate instruments		
Financial assets		
Long term advances	114,523,801	118,283,221
Term deposit receipts	12,001,000,000	8,627,629,754
Financial liabilities		
Long term financing	• 14,061,123,790	14,061,123,790
Floating rate instruments		
Financial assets		
Bank balances - deposit accounts	4,913, <del>9</del> 09,263	1,801,134,333
Fair value sensitivity analysis for fixed rate instruments		

The Company does not account for any fixed rate financial assets and liabilities at fair value through profit or loss. Therefore, a change in interest rate at the reporting date would not affect profit or loss of the Company.

#### Cash flow sensitivity analysis for variable rate instruments

If interest rates, at the year end date, fluctuates by 1% higher / lower with all other variables held constant, profit / (loss) after taxation for the year would have been Rupees 46.682 million higher / lower (2019: Rupees 18.011 million lower / higher), mainly as a result of higher / lower interest income on bank balances in deposit accounts. This analysis is prepared assuming amounts of financial instruments outstanding at reporting date were outstanding for the whole year.

#### (b) Credit risk

Credit risk represents the risk that one party to a financial instrument will cause a financial loss for the other party by failing to discharge an obligation. The carrying amount of financial assets represents the maximum credit exposure. The maximum exposure to credit risk at the reporting date was as follows:

	51,201,853,926	29,439,190,947
	114,523,801	118,283,221
	157,817,812	103,482,195
	49,185	49,185
•	24,391,352,252	17,104,202,164
	17,367,885,403	10,457,887,798
	93,233,482,379	57,273,095,510
	•	51,201,853,926 114,523,801 157,817,812 49,185 24,391,352,252 17,367,385,403 

The credit quality of financial assets that are neither past due nor impaired can be assessed by reference to external credit ratings (if available) or to historical information about counterparty default rate:

	Rating			2020	2019	
	Short term	Short term Long term Ager.cy		(RUPEES)		
Allied Bank Limited	A1+	AAA	PACRA	1,181,331,989	352,020,528	
United Bank Limited	A-1+	AAA	VIS	2,599,979,971	1,885,757,634	
MCB Bank Limited	A1+	AAA	PACRA	1,133,744,537	720,022,140	
Habib Bank Limited	A-1+	AAA	VIS	2,630,531,460	2,510,735, <del>9</del> 42	
National Bank of Pakistan	A-1+	AAA	VIS	5,017,390,155	745,216,534	
The Bank of Punjab	A1+	AA	PACRA	844,660,560	751,546,253	
Bank Alfalah Limited	A1+	AA+	PACRA	257,014,519	25,275,807	
	Sub total:-			13,764,653,191	6,990,584,838	

	Rating			2020	2019
	Shurt term	Long term	Аделсу	(RUPE	ES)
Bank Al-Habib Limited	A1+	AA+	PACRA	1,109,097,931	653,554,864
Meezan Bank Limited	A-1+	AA+	VIS	4,879,571	503,456,499
Soneri Bank Limited	A1+	AA-	PACRA	979,614,419	864,451,651
Askari Bank Limited	A1+	AA+	PACRA	104,113,597	2,997,560
Faysal Bank Limited	A1+	AA	PACRA	714,313,344	866,536,574
Habib Metropolitan Bank Limited	A1+	AA+	PACRA	14,733	76
Standard Chartered Bank (Pakistan) Limited	A1+	AAA	PACRA	1,784	-
Zarai Taragiati Bank Limited	A-1+	AAA	VIS	63,485,977	-
JS Bank Limited	A1+	AA-	PACRA	4,005,552	69,689
Silkbank Limited	A-2	A-	VIS	3,377,233	-
First Women Bark Limited	A2	A-	PACRA	3	-
AlBaraka Bank (Pakistan) Limited	A1	А	PACRA	292,785	2,584,758
Dubai Islamic Bank Pakistan Limited	A-1+	AA	VIS	954,389	-
BankIslami Pakistan Limited	Al	A+	PACRA	480,279	772,078
Summit Bank Limited*			VIS	497,660	-
Trust Investment Bank Limited**	N/A	N/A	N/A	214,373,418	214,373,418
The Punjab Provincial Cooperative					
Bank Limited***	N/A	N/A	N/A	11,362,131	31,169,053
Pakistan Post Office ****	N/A	N/A	N/A	392,367,405	327,336,740
	Sub total:-			3,603,232,212	3,467,302,960
	Grand total:-			17.367,885,403	10,457,887,798

- \* VIS has suspended the credit rating of the Bank till availability of updated financial information, as no financial statements have been made available by the Bank after the period ended February 2019.
- \*\* PACRA has withdrawn the credit ratings of the Bank since 19 November 2012 on the request of the Bank's management as SECP has not renewed Bank's license to operate investment finance services.
- \*\*\* State Bank of Pakistan has exempted the Bank from credit rating requirements till the completion of its restructuring process.
- \*\*\*\* As Pakistan Post Office is not a bank, therefore no credit rating is available

The Company's exposure to credit risk and expected credit losses related to trade debts is disclosed in Note 18.

Due to the Company's long standing business relationships with these counterparties and after giving due consideration to their strong financial standing, management does not expect non-performance by these counterparties on their obligations to the Company. Accordingly the credit risk is minimal.

#### (c) Liquidity risk

Liquidity risk is the risk that an entity will encounter difficulty in meeting obligations associated with financial liabilities. The cash management has not yet been delegated to the Company and WAPDA disburses funds to the Company as and when needed. Following are the contractual maturities of financial liabilities, including interest payments. The amounts disclosed in the table are undiscounted cash flows.

#### Following are the contractual maturities of financial liabilities as at 30 June 2020:

	Carrying amount	Contractual cash flows	6 months or less	6-12 months	1-3 years	More than 3 years
Non-derivative financial l	abilities:		(RU	PEES)		
Long term financing	14.149 488 141	34.583.031.608	5,785,993,888	485.855.286	1.839.359.909	26.471.822.525
Long term security deposits	10,179,383,631	10,179,383,631			1,000,000,000	10,179,383,631
Trade and other payables	165,788,356,738	165,788,356,737	165,788,356,737	-	-	-
Accrued mark-up	10,788,639,164	10,788,639,164	10,788,639,164	-	• -	
	200.905,867,674	221,339,411,140	182,362,989,789	485,855,286	1,839,359,909	36.651,206,153

Following are the contractual maturities of financial liabilities as at 30 June 2019:

	Carrying amount	Contractual cash flows	6 months or less	Less than 1 year	1-3 years	More than 3 years
	*********		(RUPEE	5)	******************	
Non-derivative financial l	iabilities:					
Long term financing	14,187,596,150	34,512,490,593	4,665,353,058	475,824,418	2,766,721,211	26,704,591,906
Long term security deposits	9,179,842,474	9,179,842,474		-	-	9,179,842,474
Trade and other payables	113.843.017.322	113,843,017,322	113,843,017,322	-	-	-
Accrued mark-up	9,292,966,980	9,292,956,980	9,292,966,980	-	•	
	146,503,422,926	166,928,317,369	127,801,337,360	475,824,418	2,766,721,211	35,884,434,380

The contractual cash flows relating to the above financial liabilities have been determined on the basis of mark-up rates effective as at 30 June. The rates of mark-up have been disclosed in Note 5 to these financial statements.

#### (d) Capital risk management

The objective of the Company when managing capital is to safeguard its ability to continue as a going concern. The Company is not exposed to any external capital requirement. As public interest entity, financial support is available to the Company from Federal Government and WAPDA in the form of delayed settlement of CPPA against electricity purchase, tariff revision and subsidy on ourchases.

#### 35.2 Financial instruments by categories

	2020 RUPEES	2019 RUPEES	
	At amortized cost		
As at 30 June			
Assets as per statement of financial position			
Irade debts	51,201,853,926	29,489,190,947	
Loans and advances	114,523,801	118,283,221	
Accrued interest	157,817,812	103,482,195	
Deposits	49,185	49,185	
Other receivables	24,391,352,252	17,104,202,164	
Cash and bank balances	17,367,926,676	10,457,887,798	
	93,233,523,652	57,273,095,510	
Liabilities as per statement of financial position			
Long term financing	14,149,488,141	14,187,596,150	
Long term security deposits	10.179,383,631	9,179,842,474	
Trade and other payables	165,788,356,738	113,843,017,322	
Accrued mark-up	10,788,639,164	9,292,965,980	
<b>-</b> · · · · ·	200,905,867,674	146,503,422,926	

#### 35.3 Offsetting financial assets and financial liabilities

As on the reporting date, recognized financial instruments are not subject to offsetting as there are no enforceable master netting arrangements and similar agreements.

#### 36. **RECOGNIZED FAIR VALUE MEASUREMENTS**

#### Fair value hierarchy

Certain financial assets and financial liabilities are not measured at fair value if the carrying amounts are a reasonable approximation of fair value. Due to short term nature, carrying amounts of certain financial assets and financial liabilities are considered to be the same as their fair value. For the majority of the non-current receivables, the fair values are also not significantly different to their carrying amounts. Judgments and estimates are made in determining the fair values of the financial instruments that are recognized and measured at fair value in these financial statements. To provide an indication about the reliability of the inputs used in determining fair value, the Company classifies its financial instruments into following three levels. However, as at the reporting date, the Company has no such type of financial instruments which are required to be grouped into these levels. These levels are explained as under:

Level 1: The fair value of financial instruments traded in active markets (such as publicly traded derivatives, trading and equity securities) is based on guoted market prices at the end of the reporting period. The guoted market price used for financial assets held by the Company is the current bid price. These instruments are included in level 1.

Level 2: The fair value of financial instruments that are not traded in an active market (for example, over-the-counter derivatives) is determined using valuation techniques which maximize the use of observable market data and rely as little as possible on entity-specific estimates. If all significant inputs required to fair value an instrument are observable, the instrument is included in level 2.

Level 3: If one or more of the significant inputs is not based on observable market data, the instrument is included in level 3. This is the case for unlisted equity securities.

#### 37. DATE OF AUTHORIZATION

These financial statements were authorized for issue by the Board of Directors of the Company in their meeting held on -0.5 - 0.01 - 2020

#### 38. CORRESPONDING FIGURES

Corresponding figures have been re-arranged and re-classified for better presentation, wherever necessary, for the purpose of comparison. However, no significant re-arrangements have been made except following:

	RECLASSIFIC	DIIDEEC	
PARTICULARS	FROM	то	KUFELS
Advances from consumers	Trade debts	Trade and other payables	693,986,357

Moreover same reclassification was made in earliest period presented of 2018 in statement of financial position by Rupees 108,473,843.

#### 39. GENERAL

Figures have been mounded off to the nearest Rupee.

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# Riaz Ahmad & Company

Chartered Accountants

# MULTAN ELECTRIC POWER COMPANY LIMITED

# FINANCIAL STATEMENTS WITH ACCOMPANYING INFORMATION

# 30 JUNE 2019



560-F, Raja Road, Gulistan Colony Faisalabad 38000, Pakistan T: +92 (41) 886 10 42, 886 36 44 F: +92 (41) 886 36 11 racofsd@racopk.com www.racopk.com

## **INDEPENDENT AUDITOR'S REPORT**

To the members of Multan Electric Power Company Limited

## Report on the Audit of the Financial Statements

## Opinion

We have audited the annexed financial statements of Multan Electric Power Company Limited (the Company), which comprise the statement of financial position as at 30 June 2019, and the statement of profit or loss, the statement of comprehensive income, the statement of changes in equity, the statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies and other explanatory information, and we state that we have obtained all the information and explanations which, to the best of our knowledge and belief, were necessary for the purposes of the audit.

In our opinion and to the best of our information and according to the explanations given to us, the statement of financial position, the statement of profit or loss, the statement of comprehensive income, the statement of changes in equity and the statement of cash flows together with the notes forming part thereof conform with the accounting and reporting standards as applicable in Pakistan and give the information required by the Companies Act, 2017 (XIX of 2017), in the manner so required and respectively give a true and fair view of the state of the Company's affairs as at 30 June 2019 and of the loss, other comprehensive loss, the changes in equity and its cash flows for the year then ended.

# **Basis for Opinion**

We conducted our audit in accordance with International Standards on Auditing (ISAs) as applicable in Pakistan. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the Company in accordance with the International Ethics Standards Board for Accountants' *Code of Ethics for Professional Accountants* as adopted by the Institute of Chartered Accountants of Pakistan (the Code) and we have fulfilled our other ethical responsibilities in accordance with the Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

## **Emphasis of Matter**

We draw attention to the following matters:

a) Note 12.1.1 to the financial statements, which states that the Company has not recognized the impact of debit notes issued by Central Power Purchasing Agency (Guarantee) Limited (CPPA) for supplementary charges, being the mark-up charged on CPPA by Independent Power Producers (IPPs) on account of delayed payments, aggregating to Rupees 13,244.70 million.



# Riaz Ahmad & Company

Chartered Accountants

b) Note 12.1.2 to the financial statements, interest on workers' profit participation fund amounting to Rupees 1,531.48 million was not accounted for by the Company. Moreover, workers' profit participation fund of previous years along with related interest was not paid to the workers due to pending decision of Economic Coordination Committee to exempt the corporatized entities under the umbrella of WAPDA.

Our opinion is not modified in respect of these matters.

## Information Other than the Financial Statements and Auditor's Report Thereon

Management is responsible for the other information. The other information comprises the information included in the annual report, but does not include the financial statements and our auditor's report thereon.

Our opinion on the financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

# **Responsibilities of Management and Board of Directors for the Financial Statements**

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the accounting and reporting standards as applicable in Pakistan and the requirements of Companies Act, 2017 (XIX of 2017) and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Board of directors are responsible for overseeing the Company's financial reporting process.

# Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs as Chartered Accountants

applicable in Pakistan will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with ISAs as applicable in Pakistan, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with the board of directors regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

# **Report on Other Legal and Regulatory Requirements**

Based on our audit, we further report that in our opinion:

a) proper books of account have been kept by the Company as required by the Companies Act, 2017 (XIX of 2017);

Riaz Ahmad & Company

Chartered Accountants

- b) the statement of financial position, the statement of profit or loss, the statement of comprehensive income, the statement of changes in equity and the statement of cash flows together with the notes thereon have been drawn up in conformity with the Companies Act, 2017 (XIX of 2017) and are in agreement with the books of account and returns;
- c) investments made, expenditure incurred and guarantees extended during the year were for the purpose of the Company's business; and
- d) no Zakat was deductible at source under the Zakat and Ushr Ordinance, 1980 (XVIII of 1980)

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The engagement partner on the audit resulting in this independent auditor's report is Liaqat Ali Panwar.

his Honord & co. **RIAZ AHMAD & COMPANY Chartered Accountants** 

Faisalabad

Date: 0 5 OCT 2019

# MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF FINANCIAL POSITION AS AT 30 JUNE 2019

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EQUITY AND LIABILITIES	NOTE	2019 RUPEES	2018 RUPEES Restated	2017 RUPEES Restated	ASSETS	NOTE	2019 RUPEES	2018 RUPEES Restated	2017 RUPEES Restated
SHARE CAPITAL AND RESERVES Authorized share capital					NON-CURRENT ASSETS				
5 000 000 000 (2018: 5 000 000 000) ordinary shares of Rupees 10 each		50,000,000,000	50,000,000,000	50,000,000,000	Property plant and equipment	13	109 880 917 854	100 029 227 227	01 000 707 476
Issued, subscribed and paid up share capital Deposit for shares Accumulated loss Total equity	3 4	10,823,636,048 31,337,632,169 (133,599,363,948) (91,438,095,731)	10,823,636,048 30,590,260,624 <u>{106,224,501,798}</u> (64,810,605,126)	10,823,636,048 32,508,450,451 <u>(61,481,748,121)</u> (18,149,661,622)	Intangible asset / Long term advances	13 14 15 16	10,101,690 80,630,425 49,185	27,397,086 76,959,810 49,185	91,088,703,476 44,692,482 76,206,044 49,185
LIABILITIES NON-CURRENT LIABILITIES					CURRENT ASSETS		100,200,27,174	100,125,142,200	91,209,031,107
Long term financing Staff retirement benefits Long term security deposits Receipt against deposit works Deferred credit Deferred mark-up <b>CURRENT LIABILITIES</b> Trade and other payables Accrued mark-up Current portion of long term financing <b>TOTAL LIABILITIES</b>	5 6 7 8 9 10 11 5	8,811,426,965 79,175,417,563 9,179,842,474 20,722,976,017 57,194,876,289 	9,234,627,888 70,394,154,272 8,164,534,805 20,448,934,978 52,220,167,587 626,688,464 161,089,107,994 116,046,041,236 7,197,300,877 4,472,645,281 127,715,987,394 288,805,095,388	9,080,648,300 56,593,072,377 7,210,180,701 17,393,862,409 48,487,702,894 291,904,353 139,057,371,034 49,936,279,621 6,302,177,109 3,603,804,432 59,842,261,162 198,899,632,196	Stores and spare parts Trade debts Loans and advances Other receivables Tax refunds due from Government Accrued interest Bank balances	17 18 19 20 21 22	8,103,425,849 28,795,204,590 349,920,881 57,164,705,281 6,679,287,571 103,482,195 10,457,887,798 111,653,914,165	5,763,585,227 39,045,856,911 411,795,054 57,697,402,536 10,673,864,099 48,504,557 10,220,738,570 123,861,746,954	3,940,715,238 27,545,653,037 250,430,568 38,758,498,258 10,142,850,087 40,060,925 <u>8,862,111,274</u> 89,540,319,387
CONTINGENCIES AND COMMITMENTS TOTAL EQUITY AND LIABILITIES The annexed notes form in integral varie of these fir CHIEF EVECUTIVE OFFICER	12 nancial stater	220,634,513,318 nents.	223,994,490,262	180,749,970,574	TOTAL ASSETS	-	220,634,513,318	223,994,490,262	180,749,970,574

## MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF PROFIT OR LOSS FOR THE YEAR ENDED 30 JUNE 2019

	NOTE	2019 RUPEES	2018 RUPEES Restated
SALES OF ELECTRICITY - NET TARIFF DIFFERENTIAL SUBSIDY	23 24 _	165,347,625,359 69,964,631,669 235,312,257,028	139,972,299,041 40,264,736,364 180,237,035,405
COST OF ELECTRICITY GROSS PROFIT / (LOSS)	25 _	(225,725,413,330) 9,586,843,698	<u>(192,693,791,151)</u> (12,456,755,746)
AMORTIZATION OF DEFERRED CREDIT	9 -	2,758,528,394	2,490,165,155
OPERATING EXPENSES EXCLUDING DEPRECIATION AND AMORTIZATION DEPRECIATION ON OPERATING FIXED ASSETS	26 13.3	(31,940,190,116) (4,693,124,291)	(21,875,164,839) (4,259,094,586)
LOSS FROM OPERATIONS	- 14	(36,650,609,803) (24,305,237,711)	(36,118,145,412)
OTHER INCOME FINANCE COST	27 28	3,812,922,702 (2,290,013,937)	3,426,436,794 (1,133,018,209)
TAXATION	29	(22,782,328,946) -	(33,824,726,827)
LOSS AFTER TAXATION	-	(22,782,328,946)	(33,824,726,827)
LOSS PER SHARE - BASIC	30 <sub>=</sub>	(21.05)	(31.25)
LUSS PER SHAKE - DILUTED		(3.40)	(0.17)

The annexed potes form an integral part of these financial statements.

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## MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDED 30 JUNE 2019

	2019 RUPEES	2018 RUPEES
LOSS AFTER TAXATION	(22,782,328,946)	(33,824,726,827)
OTHER COMPREHENSIVE LOSS		
Items that will not be reclassified subsequently to profit or loss: Remeasurements of defined benefit obligations	(4,592,533,204)	(10,918,026,850)
Items that may be reclassified subsequently to profit or loss	_	_
Other comprehensive loss for the year	(4,592,533,204)	(10,918,026,850)
TOTAL COMPREHENSIVE LOSS FOR THE YEAR	(27,374,862,150)	(44,742,753,677)

The annexed notes form an integral part of these financial statements.

11 CHIEF EXECUTIVE OFFICER

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## MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 30 JUNE 2019

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	SHARE CAPITAL	DEPOSIT FOR SHARES	ACCUMULATED LOSS	TOTAL EQUITY
	میں ایک بینے میں ایک ایک ایک ایک ایک ایک ایک ایک ایک ایک	العلى الحد العلم العلم العلم العلم العلم العلم العلم العلم العلم العلم العلم العلم العلم العلم العلم العلم العلم	RUPEES	الله الله المن الي من عليه بلو سو أحد أحد الحراكم الي العام العام الع التي العام الم الله العام الع
Balance as at 30 June 2017	10,823,636,048	32,508,450,451	(61,481,748,121)	(18,149,661,622)
Non-cash settlement against deposit for shares		(1,918,189,827)		(1,918,189,827)
Loss for the year	~	-	(33,824,726,827)	(33,824,726,827)
Other comprehensive loss for the year	-		(10,918,026,850)	<b>(10,918,026,</b> 850)
Total comprehensive loss for the year	-	-	(44,742,753,677)	(44,742,753,677)
Balance as at 30 June 2018	10,823,636,048	30,590,260,624	(106,224,501,798)	(64,810,605,126)
Non-cash settlement against deposit for shares (Note 4)	_	747,371,545	-	<b>747,371,</b> 545
Loss for the year		-	(22,782,328,946)	(22,782,328,946)
Other comprehensive loss for the year	-	-	(4,592,533,204)	(4,592,533,204)
Total comprehensive loss for the year	-	-	(27,374,862,150)	(27,374,862,150)
Balance as at 30 June 2019	10,823,636,048	31,337,632,169	(133,599,363,948)	(91,438,095,731)

The annexed notes form an integral part of these financial statements.

CHIEF EXECUTIVE OFFICER

DIRECTOR

## MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 30 JUNE 2019

	NOTE	2019 RUPEES	2018 RUPEES
CASH FLOWS FROM OPERATING ACTIVITIES			
<b>Cash generated from operations</b> Finance cost paid Income tax paid Staff retirement benefits paid Payment for Fund contribution regarding pension obligation Net increase in long term advances	31	7,901,805,194 (4,452,579) - (4,329,892,086) (160,224,720) (2,423,799)	8,080,562,288 (211,502,388) (1,766,263,571) (3,211,289,876) (456,073,833) (7,412,918)
Net cash generated from operating activities		3,404,812,010	2,428,019,702
CASH FLOWS FROM INVESTING ACTIVITIES			
Capital expenditure on property, plant and equipment Proceeds from disposal of property, plant and equipment Profit on bank deposits received		(13,439,008,582) - 768,437,015	(12,923,744,347) 300,000 599,174,983
Net cash used in investing activities		(12,670,571,567)	(12,324,269,364).
CASH FLOWS FROM FINANCING ACTIVITIES			
Proceeds from long term financing Repayment of long term financing Consumers' security deposits received Receipt against deposit works-net		554,481,341 (74,158,360) 1,015,307,669 8,007,278,135	1,021,006,491 (28,641,054) 954,354,104 9,308,157,417
Net cash from financing activities	-	9,502,908,785	11,254,876,958
NET INCREASE IN CASH AND CASH EQUIVALENTS		237,149,228	1,358,627,296
CASH AND CASH EQUIVALENTS AT THE BEGINNING OF THE YEAR		10,220,738,570	8,862,111,274
CASH AND CASH EQUIVALENTS AT THE END OF THE YEAR (NOTE 22)		10,457,887,798	10,220,738,570

The annexed notes form an integral part of these financial statements.

were CHIEF EXECUTIVE OFFICER

DIRECTO

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#### MULTAN ELECTRIC POWER COMPANY LIMITED NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 30 JUNE 2019

#### 1. THE COMPANY AND ITS ACTIVITIES

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- 1.1 Multan Electric Power Company Limited (the Company) is a public limited company incorporated in Pakistan under the repealed Companies Ordinance, 1984 (now Companies Act, 2017). The Company was established to takeover all the properties, rights, assets, obligations and liabilities of Multan Area Electricity Board (MAEB) owned by Pakistan Water and Power Development Authority (WAPDA) and such other assets and liabilities as agreed. The Company was incorporated on 14 May 1998 and commenced operation on 09 June 1998. Its registered office is situated at Shahrah-e-Quaid-e-Azam, WAPDA House, Lahore. The principal place of business of the Company is located at Khanewal Road, Multan. While the Company have various 132-KV and 66-KV grid stations along with other offices located in 13 districts of South Punjab including Multan, Pakpattan, Sahiwal, Khanewal, Bahawalnagar, Bahawalpur, Rahim Yar Khan, Lodhran, Dera Ghazi Khan, Layyah, Muzaffargarh, Rajanpur and Vehari. The principal activity of the Company is distribution and supply of electricity to public within defined geographical boundaries.
- 1.2 Ministry of Energy, Government of Pakistan vide S.R.O. 07(I)/2019 dated 01 January 2019 has allowed the Prior Year Adjustment (PYA) of Rupees 49.170 billion, which includes Rupees 19.733 billion relating to financial year 2016-17 and Rupees 29.437 billion relating to financial year 2017-18. However, an amount of Rupees 20.105 billion has been recovered during the year and remaining amount of Rupees 29.065 billion has to be recovered in next 6 months after year end. Further, Ministry of Energy, Government of Pakistan vide S.R.O. 667(I)/2019 dated 28 June 2019 has allowed an amount of Rupees 34.633 billion as quarterly adjustment on account of Power Purchase Cost relating to first half of financial year 2018-19, which will be recovered in next fifteen months after year end. If these adjustments had been allowed in the respective years, the revenue for years ended 30 June 2017, 30 June 2018 and 30 June 2019 would have been increased by Rupees 19.733 billion, Rupees 29.437 billion and Rupees 34.633 billion respectively. Consequently, accumulated loss would have been reduced by Rupees 63.698 billion.

#### 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The significant accounting policies applied in the preparation of these financial statements are set out below. These policies have been consistently applied to all years presented, unless otherwise stated:

#### 2.1 Basis of preparation

#### a) Statement of compliance

These financial statements have been prepared in accordance with the accounting and reporting standards as applicable in Pakistan. The accounting and reporting standards applicable in Pakistan comprise of:

- International Financial Reporting Standards (IFRSs) issued by the International Accounting Standards Board (IASB) as notified under the Companies Act, 2017; and

- Provisions of and directives issued under the Companies Act, 2017.

Where provisions of and directives issued under the Companies Act, 2017 differ from the IFRSs, the provisions of and directives issued under the Companies Act, 2017 have been followed.

#### b) Accounting convention

These financial statements have been prepared under the historical cost convention, except for the staff retirement benefits which are measured at present value determined annually through actuarial valuation on each reporting date.

#### c) Critical accounting estimates and judgments

The preparation of financial statements in conformity with the approved accounting standards requires the use of certain critical accounting estimates. It also requires the management to exercise its judgment in the process of applying the Company's accounting policies. Estimates and judgments are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The areas where various assumptions and estimates are significant to the Company's financial statements or where judgments were exercised in application of accounting policies are as follows:

#### Useful lives, patterns of economic benefits and impairments

Estimates with respect to residual values and useful lives and pattern of flow of economic benefits are based on the analysis of the management of the Company. Further, the Company reviews the value of assets for possible impairment on annual basis. Any change in the estimates in the future might affect the carrying amount of respective item of property, plant and equipment, with a corresponding effect on the depreciation charge and impairment.

## Provision for obsolescence of stores and spare parts

The Company reviews the carrying amount of stores and spare parts on regular basis and provision for obsolescence is made if there is any change in usage pattern and physical form of stores and spare parts.

#### Taxation

In making the estimates for income tax currently payable by the Company, the management takes into account the current income tax law and the decisions of appellate authorities on certain issues in the past.

#### Allowance for expected credit losses

The allowance for expected credit losses assessment requires a degree of estimation and judgement. It is based on the lifetime expected credit loss, based on the Company's experience of actual credit loss in past years.

#### Staff retirement benefits

Certain actuarial assumptions have been adopted for determination of present value of staff retirement benefits and fair value of plan assets. Any change in these assumptions in future years might affect the current and remeasurement gains and losses in those years.

#### d) Implication of revised IFRS 2 'Share-based Payment'

On 14 August 2009, the Government of Pakistan (GoP) launched Benazir Employees' Stock Option Scheme ("the Scheme") for employees of certain State Owned Enterprises (SOEs), including the Company and Non-State Owned Enterprises (Non-SOEs), where the GoP holds significant investments. The Scheme is applicable to permanent and contractual employees where in employment of these entities on the date of launch of the Scheme, subject to completion of five years vesting period by all contractual employees and by permanent employees in certain instances.

The Scheme provides for cash payment to employees on retirement or termination based on the price of shares of respective entities. To administer the Scheme, the Government shall transfer 12 percent of its investment in such SOEs and Non-SOEs to a Trust Fund, established under a trust deed, created for the purpose by each such entity. The eligible employees are entitled to be allotted units by each Trust Fund in proportion to their respective length of service and on retirement or termination, such employees would be entitled to receive such amounts from Trust Funds in exchange for the surrendered units, as would be determined based on market price for listed entities or break-up value of non-listed entities. The shares relating to the surrendered units would be transferred back to the GoP.

The Scheme also provides that 50 percent of dividend related to shares transferred to the respective Trust Fund would be distributed amongst the unit-holding employees. The balance 50 percent dividend would be transferred by the respective Trust Fund to the Central Revolving Fund, managed by the Privatization Commission of Pakistan for payment to employees against surrendered units. The deficit, if any, in Trust Funds to meet the re-purchase commitment would be met by the Government. The Scheme, developed in compliance with the stated GOP policy of empowerment of employees of SOEs, needs to be accounted for by the covered entities, including the Company, under the provisions of amended IFRS 2. However, keeping in view the difficulties that may be faced by the entities covered under the Scheme, the SECP, on receiving representations from some of entities covered under the scheme and after having consulted the Institute of Chartered Accountants of Pakistan, has granted exemption vide SRO 587(I)/2011 dated 07 June 2011 to such entities from the application of IFRS 2 to the Scheme.

#### e) Standards, interpretation and amendments to published approved accounting standards that are effective in current year and are relevant to the Company

Following standards, interpretation and amendments to published approved accounting standards are mandatory for the Company's accounting periods beginning on or after 01 July 2018:

- IFRS 9 'Financial Instruments'
- IFRS 15 'Revenue from Contracts with Customers'
- IFRS 15 (Amendments), 'Revenue from Contracts with Customers'
- IFRIC 22 'Foreign Currency Transactions and Advance Consideration'
- Annual Improvements to IFRSs: 2014 2016 Cycle

The Company had to change its accounting policies and make certain adjustments without restating prior year results following the adoption of IFRS 9. These are disclosed in Note 2.9. Most of the other amendments listed above except for IFRS 9 and IFRS 15 (as disclosed in Note 2.10) did not have any impact on the amounts recognized in prior periods and are not expected to significantly affect the current or future periods.

#### f) Amendments to published approved accounting standards that are effective in current year but not relevant to the Company

There are other amendments to published approved accounting standards that are mandatory for accounting periods beginning on or after 01 July 2018 but are considered not to be relevant or do not have any significant impact on the Company's financial statements and are therefore not detailed in these financial statements.

Standards, interpretation and amendments to published approved accounting standards that are not yet effective but relevant to the Company

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g)

Following standards, interpretation and amendments to existing standards have been published and are mandatory for the Company's accounting periods beginning on or after 01 July 2019 or later periods:

IFRS 16 'Lease' (effective for annual periods beginning on or after 01 January 2019). IFRS 16 specifies how an entity will recognize, measure, present and disclose leases. The standard provides a single lessee accounting model, requiring lessees to recognize assets and liabilities for all leases unless the lease term is 12 months or less or the underlying asset has a low value. Lessors continue to classify leases as operating or finance, with IFRS 16 approach to lessor accounting substantially unchanged from its predecessor, IAS 17 'Leases'. IFRS 16 replaces IAS 17, IFRIC 4 'Determining Whether an Arrangement Contains a Lease', SIC-15 'Operating Leases-Incentives' and SIC-27 'Evaluating the Substance of Transactions Involving the Legal Form of a Lease'. The management of the Company is in the process of evaluating the impacts of the aforesaid standard in the Company's financial statements.

Amendments to IFRS 9 (effective for annual periods beginning on or after 01 January 2019) clarify that for the purpose of assessing whether a prepayment feature meets the Solely Payments of Principal and Interest ('SPPI') condition, the party exercising the option may pay or receive reasonable compensation for the prepayment irrespective of the reason for prepayment. In other words, prepayment features with negative compensation do not automatically fail SPPI. The amendments are not likely to have significant impact on the Company's financial statements.

IFRIC 23 'Uncertainty over Income Tax Treatments' (effective for annual periods beginning on or after 01 January 2019). The interpretation addresses the determination of taxable profit (tax loss), tax bases, unused tax losses, unused tax credits and tax rates, when there is uncertainty over income tax treatments under IAS 12 'Income Taxes'. It specifically considers: whether tax treatments should be considered collectively; assumptions for taxation authorities' examinations; the determination of taxable profit (tax loss), tax bases, unused tax credits and tax rates; and the effect of changes in facts and circumstances. The interpretation is not expected to have a material impact on the Company's financial statements.

Amendments to IAS 1 'Presentation of Financial Statements' and IAS 8 'Accounting Policies, Changes in Accounting Estimates and Errors' (effective for annual periods beginning on or after 01 January 2020). The amendments are intended to make the definition of material in IAS 1 easier to understand and are not intended to alter the underlying concept of materiality in IFRS. In addition, the IASB has also issued guidance on how to make materiality judgements when preparing general purpose financial statements in accordance with IFRS.

Amendments to IAS 19, 'Employee Benefits' - Plan Amendment, Curtailment or Settlement (effective for annual periods beginning on or after 01 January 2019). The amendments clarify that on amendment, curtailment or settlement of a defined benefit plan, a company now uses updated actuarial assumptions to determine its current service cost and net interest for the period; and the effect of the asset ceiling is disregarded when calculating the gain or loss on any settlement of the plan and is dealt with separately in other comprehensive income. The application of amendments is not likely to have an impact on Company's financial statements.

On 12 December 2017, IASB issued Annual Improvements to IFRSs: 2015 – 2017 Cycle, incorporating amendments to four IFRSs more specifically in IAS 12 'Income Taxes' and IAS 23 'Borrowing Costs', relevant to the Company. The amendments are effective for annual periods beginning on or after 01 January 2019. The amendments have no significant impact on the Company's financial statements and have therefore not been analyzed in detail.

On 29 March 2018, the IASB has issued a revised Conceptual Framework. The new Framework: reintroduces the terms stewardship and prudence; introduces a new asset definition that focuses on rights and a new liability definition that is likely to be broader than the definition it replaces, but does not change the distinction between a liability and an equity instrument; removes from the asset and liability definitions references to the expected flow of economic benefits-this lowers the hurdle for identifying the existence of an asset or liability and puts more emphasis on reflecting uncertainty in measurement; discusses historical cost and current value measures, and provides some guidance on how the IASB would go about selecting a measurement basis for a particular asset or liability; states that the primary measure of financial performance is profit or loss, and that only in exceptional circumstances will the IASB use other comprehensive income and only for income or expenses that arise from a change in the current value of an asset or liability; and discusses uncertainty, de-recognition, unit of account, the reporting entity and combined financial statements. The Framework is not an IFRS and does not override any standard, so nothing will change in the short term. The revised Framework will be used in future standard-setting decisions, but no changes will be made to current IFRSs. Preparers might also use the Framework to assist them in developing accounting policies where an issue is not addressed by an IFRS. It is effective for annual periods beginning on or after 01 January 2020 for preparers that develop an accounting policy based on the Framework.

# h) Standards and amendments to published approved accounting standards that are not yet effective and not considered relevant to the Company

There are other standards and amendments to published approved accounting standards that are mandatory for accounting periods beginning on or after 01 July 2019 but are considered not to be relevant or do not have any significant impact on the Company's financial statements and are therefore not detailed in these financial statements.

## 2.2 Functional and presentation currency along with foreign currency transactions and translation

Items included in the financial statements of the Company are measured using the currency of the primary economic environment in which the Company operates (the functional currency). The financial statements are presented in Pak Rupees, which is the Company's functional and presentation currency. All monetary assets and liabilities in foreign currencies are translated into Pak Rupees at exchange rates prevailing at the reporting date. Transactions in foreign currencies are translated into Pak Rupees at exchange rates prevailing at the dates of the transactions. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year end exchange rates of monetary assets and liabilities that are measured in terms of historical cost in a foreign currency are translated into Pak Rupees at exchange rates prevailing at the date of transacted into Pak Rupees at exchange rates are charged or credited to statement of profit or loss. Non-monetary assets and liabilities that are measured in terms of historical cost in a foreign currency are translated into Pak Rupees at exchange rates prevailing at the date of transaction. Non-monetary assets and liabilities denominated in foreign currency that are stated at fair value are translated into Pak Rupees at exchange rates prevailing at the date when fair values are determined.

#### 2.3 Staff retirement benefits

The Company provides funded pension scheme, an unfunded free electricity scheme and an unfunded free medical facility scheme for all its employees. Further, the Company's employees are also entitled for accumulated compensated absences which are encashed at the time of retirement upto maximum limit of 365 days. The Company's obligations under these schemes are determined annually by a qualified actuary using Projected Unit Credit Actuarial Cost Method. Latest actuarial valuations have been carried on 30 June 2019. The Company's net obligation in respect of defined benefit plans is calculated by estimating the amount of future benefit that employees have earned in the current and prior periods, discounting that amount and deducting the fair value of any plan assets. Past service cost is recognized immediately in the statement of profit or loss.

Remeasurement of the net defined benefit liability (except for compensated absences), which comprises actuarial gains and losses, the return on plan assets (excluding interest) and the effect of the asset ceiling (if any, excluding interest), are recognized immediately in other comprehensive income. The Company determines the net interest expense on the net defined benefit liability for the period by applying the discount rate used to measure the defined benefit obligation at the beginning of the annual period to the then-net defined benefit liability, taking into account any changes in the net defined benefit liability during the period as a result of contributions and benefits payments. Net interest expense and other expenses related to defined benefit plan is recognized in profit or loss. Remeasurement related to the compensated absences is recognized in the year of occurrence in the statement of profit or loss.

#### 2.3.1 General / Employees' Provident Fund

For General / Employees' Provident Fund and WAPDA Welfare Fund, the Company makes deduction from salaries of the employees and remits these amounts to the funds established by WAPDA. The provident fund related disclosure required by the Companies Act, 2017 is not shown in these financial statements as General / Employees' Provident Fund established by WAPDA includes the employees of other power distribution and generation companies and the figures related to the. Company cannot be segregated from the whole General / Employees' Provident Fund.

#### 2.4 Taxation

#### Current

Provision for current tax is based on the taxable income for the year determined in accordance with the prevailing law for taxation of income. The charge for current tax is calculated using prevailing tax rates or tax rates expected to apply to the profit for the year, if enacted. The charge for current tax also includes adjustments, where considered necessary, to provision for tax made in previous years arising from assessments framed during the year for such years.

#### Deferred

Deferred tax is accounted for using the liability method in respect of all temporary differences arising from differences between the carrying amount of assets and liabilities in the financial statements and the corresponding tax bases used in the computation of the taxable profit. Deferred tax liabilities are generally recognized for all taxable temporary differences and deferred tax assets to the extent that it is probable that taxable profits will be available against which the deductible temporary differences, unused tax losses and tax credits can be utilized.

Deferred tax is calculated at the rates that are expected to apply to the period when the differences reverse based on tax rates that have been enacted or substantively enacted by the reporting date. Deferred tax is charged or credited in the statement of profit or loss, except to the extent that it relates to items recognized in other comprehensive income or directly in equity. In this case, the tax is also recognized in other comprehensive income or directly.

#### 2.5 Property, plant and equipment

#### 2.5.1 Operating fixed assets and depreciation

#### a) Cost

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Operating fixed assets are stated at cost less accumulated depreciation and any identified impairment loss, except freehold land which is stated at cost less any identified impairment loss and leasehold land which is stated at cost less accumulated depreciation and any identified impairment loss. Cost of operating fixed assets consists of historical cost, borrowing cost pertaining to the erection / construction period of qualifying assets and directly attributable costs of bringing the assets to working condition for their intended use.

Subsequent costs are included in the asset's carrying amount or recognized as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Company and the cost of the item can be measured reliably. All other repair and maintenance costs are charged to the statement of profit or loss during the period in which they are incurred.

#### b) Depreciation

Depreciation on operating fixed assets is calculated applying the straight line method so as to write off the cost / depreciable amount of the assets over their estimated useful lives at the rates given in Note 13.2. The Company charges the depreciation on additions from the month when the asset is available for use and on deletions up to the month when the asset is de-recognized. Depreciation on operating fixed assets is charged to the statement of profit or loss except for depreciation provided on construction equipment and vehicles during the period of construction of operating fixed assets that is capitalized as part of the cost of operating fixed assets. The residual values and useful lives are reviewed by the management, at each financial year-end and adjusted if impact on depreciation is significant.

#### c) De-recognition

An item of property, plant and equipment is de-recognized upon disposal or when no future economic benefits are expected from its use or disposal. Any gain or loss arising on de-recognition of the asset is included in the statement of profit or loss in the year the asset is de-recognized.

#### 2.5.2 Capital work-in-progress

Capital work-in-progress is stated at cost less any recognized impairment loss. This includes all costs connected with specific assets (including borrowing cost) incurred during installation and construction period. These are transferred to specific assets as and when these assets are available for intended use.

#### 2.6 Stores and spare parts

Usable stores and spare parts except for items in transit are valued principally at moving average cost, while items considered obsolete are carried at nil value. Items-in-transit are stated at invoice amount plus other charges paid thereon.

#### 2.7 Cash and cash equivalents

Cash and cash equivalents comprise cash in hand, cash at banks on current, saving and deposit accounts and other short term highly liquid instruments that are readily convertible into known amounts of cash and which are subject to insignificant risk of changes in values.

#### 2.8 Revenue from contracts with customers

The Company has adopted IFRS 15 from 01 July 2018. The standard provides a single comprehensive model for revenue recognition. The core principle of the standard is that an entity shall recognize revenue to depict the transfer of promised goods or services to customers at an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The standard introduced a new contract-based revenue recognition model with a measurement approach that is based on an allocation of the transaction price. This is described further in the accounting policies below. Credit risk is presented separately as an expense rather than adjusted against revenue. Contracts with customers are presented as a contract liability, a contract asset, or a receivable, depending on the relationship between the Company's performance and the customer's payment. These are further elaborated hereunder:

#### Revenue recognition

i)

Revenue is recognized at an amount that reflects the consideration to which the Company is expected to be entitled in exchange for transferring goods or services to a customer. For each contract with a customer, the Company: identifies the contract with a customer; identifies the performance obligations in the contract; determines the transaction price which takes into account estimates of variable consideration and the time value of money; allocates the transaction price to the separate performance obligations on the basis of the relative stand-alone selling price of each distinct good or service to be delivered; and recognizes revenue when or as each performance obligation is satisfied in a manner that depicts the transfer to the customer of the goods or services promised.

#### Sale of electricity

Revenue from the sale of electricity is recognized on supply of electricity to consumers at the rates determined by NEPRA and notified by the Government of Pakistan in official gazette from time to time. Late payment charges are recognized on accrual basis.

#### Tariff differential subsidy

Tariff differential subsidy on electricity announced by the Government of Pakistan for consumers is recognized under revenue on an accrual basis.

#### Rental and service income

Meter rentals are recognized on time proportion basis.

#### **Rendering of services**

Revenue from a contract to provide services is recognized over time as the services are rendered based on either a fixed price or an hourly rate.

#### Interest

Interest income is recognized as interest accrues using the effective interest method. This is a method of calculating the amortized cost of a financial asset and allocating the interest income over the relevant period using the effective interest rate, which is the rate that exactly discounts estimated future cash receipts through the expected life of the financial asset to the net carrying amount of the financial asset.

#### Other revenue

Other revenue is recognized when it is received or when the right to receive payment is established.

#### ii) Contract assets

Contract assets arise when the Company performs its performance obligations by transferring goods to a customer before the customer pays its consideration or before payment is due. Contract assets are treated as financial assets for impairment purposes.

#### iii) Contract liabilities

Contract liability is the obligation of the Company to transfer goods to a customer for which the Company has received consideration from the customer. If a customer pays consideration before the Company transfers goods, a contract liability is recognized when the payment is made. Contract liabilities are recognized as revenue when the Company performs its performance obligations under the contract.

### iv) Impacts of adoption of IFRS 15 on these financial statements as on 01 July 2018

The Company has adopted IFRS 15 by applying the modified retrospective approach according to which the Company is not required to restate the prior year results. However, the application of IFRS 15 does not have any impact on the revenue recognition policy of the Company and therefore, the cumulative effect of initially applying this standard as an adjustment to the opening balance of accumulated loss in the year of Initial application is Rupees Nil.

#### 2.9 IFRS 9 'Financial Instruments'

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i)

The Company has adopted IFRS 9 "Financial Instruments" from 01 July 2018. The standard introduced new classification and measurement models for financial assets. A financial asset shall be measured at amortized cost if it is held within a business model whose objective is to hold assets in order to collect contractual cash flows which arise on specified dates and that are solely principal and interest. A debt instrument shall be measured at fair value through other comprehensive income if it is held within a business model whose objective is to both hold assets in order to collect contractual cash flows which arise on specified dates that are solely principal and interest as well as selling the asset on the basis of its fair value. All other financial assets are classified and measured at fair value through profit or loss unless the Company makes an irrevocable election on initial recognition to present gains and losses on equity instruments in other comprehensive income. Despite these requirements, a financial asset may be irrevocably designated as measured at fair value through profit or loss to reduce the effect of, or eliminate, an accounting mismatch. For financial liabilities designated at fair value through profit or loss, the standard requires the portion of the change in fair value that relates to the Company's own credit risk to be presented in other comprehensive income (unless it would create an accounting mismatch). New simpler hedge accounting requirements are intended to more closely align the accounting treatment with the risk management activities of the Company. New impairment requirements use an 'Expected Credit Loss' ('ECL') model to recognize an allowance. Impairment is measured using a 12-month ECL method unless the credit risk on a financial instrument has increased significantly since initial recognition in which case the lifetime ECL method is adopted. For receivables, a simplified approach to measure expected credit losses using a lifetime expected loss allowance is available.

The Company has adopted IFRS 9 without restating the prior year results. Key changes in accounting policies resulting from application of IFRS 9 are as follows:

#### Recognition of financial instruments

The Company initially recognizes financial assets on the date when they are originated. Financial liabilities are initially recognized on the trade date when the entity becomes a party to the contractual provisions of the instrument.

### ii) Classification and measurement of financial instruments

IFRS 9 largely retains the existing requirements in IAS 39 "Financial Instruments: Recognition and Measurement" for the classification and measurement of financial liabilities. However, it replaces the previous IAS 39 categories for financial assets i.e. loans and receivables, Fair Value Through Profit or Loss (FVTPL), available for sale and held to maturity with the categories such as amortized cost, FVTPL and Fair Value Through Other Comprehensive Income (FVTOCI).

#### a) Classification

From 01 July 2018, the Company classifies its financial assets at amortized cost.

The classification depends on the Company's business model for managing the financial assets and the contractual terms of the cash flows.

#### b) Measurement

At initial recognition, the Company measures a financial asset at its fair value plus, transaction costs that are directly attributable to the acquisition of the financial asset. Subsequent measurement of debt instruments depends on the Company's business model for managing the asset and the cash flow characteristics of the asset. The Company classifies its debt instruments at amortized cost. Financial assets that are held for collection of contractual cash flows where those cash flows represent solely payments of principal and interest are measured at amortized cost. Interest income from these financial assets is included in other income using the effective interest rate method. Any gain or loss arising on derecognition is recognized directly in profit or loss and presented in other income / (other expenses) together with foreign exchange gains and losses.

#### Financial liabilities

#### **Classification and measurement**

The adoption of IFRS 9 did not have a significant effect on the Company's accounting policies related to financial liabilities, and therefore no change in the classification and measurement of financial liabilities.

#### iii) Impairment of financial assets

From 01 July 2018, the Company assesses on a forward looking basis the expected credit losses associated with its debt instruments carried at amortized cost. The impairment methodology applied depends on whether there has been a significant increase in credit risk.

For trade debts and other receivables, the Company applies the simplified approach permitted by IFRS 9, which requires expected lifetime losses to be recognized from initial recognition of the receivables.

#### iv) De-recognition

#### **Financial assets**

The Company de-recognizes a financial asset when the contractual rights to the cash flows from the asset expire, or it transfers the rights to receive the contractual cash flows in a transaction in which substantially all of the risks and rewards of ownership of the financial asset are transferred, or it neither transfers nor retains substantially all of the risks and rewards of ownership and does not retain control over the transferred asset. Any interest in such de-recognized financial assets that is created or retained by the Company is recognized as a separate asset or liability.

#### **Financial liabilities**

The Company de-recognizes a financial liability (or a part of financial liability) from its statement of financial position when the obligation specified in the contract is discharged or cancelled or expired.

#### v) Offsetting of financial instruments

Financial assets and financial liabilities are set off and the net amount is reported in the financial statements when there is a legal enforceable right to set off and the Company intends either to settle on a net basis or to realize the assets and to settle the liabilities simultaneously.

### vi) Impacts of adoption of IFRS 9 on these financial statements as on 01 July 2018

On 01 July 2018, the Company's management has assessed which business models apply to the financial assets held by the Company at the date of initial application of IFRS 9 (01 July 2018) and has classified its financial instruments into appropriate IFRS 9 categories. The main effects resulting from this reclassification are as follows:

#### Financial assets (01 July 2018)

	Loans and receivables	Amortized cost
	RU	PEES
Opening balance (before reclassification)	62,890,499,682	-
Adjustment on adoption of IFRS 9 by reclassifying financial instruments designated as 'Loans and Receivables' to 'Amortized Cost'	(62,890,499,682)	62,890,499,682
Opening balance (after reclassification)		62,890,499,682

There was no change in categories of financial liabilities of the Company.

#### 2.10 Trade receivables

Trade receivables are initially recognized at fair value and subsequently measured at amortized cost using the effective interest method, less any allowance for expected credit losses.

The Company has applied the simplified approach to measure expected credit losses, which uses a lifetime expected loss allowance. Actual credit loss experience over past years is used to base the calculation of expected credit loss.

Expected credit losses are recognized as follows:

- a) No expected credit loss on Government institutions balances;
- , b) Expected credit loss of seventy five percent on permanently disconnected consumers; and
  - c) Expected credit loss on arrears from private consumers and deferred arrears at the rates approved.

The percentage rates for creating allowance for expected credit losses on trade debts is as follows:

Permanently disconnected connections	75%
Deferred arrears	75%
Arrears:	
More than 3 months and up to 6 months	5%
More than 6 months and up to 1 year	10%
More than 1 year	100%

#### 2.11 Deferred credit

Amounts received from consumers and Government as contributions towards the cost of extension of electricity distribution network and of providing service connections are deferred and amortized over the estimated useful lives of related assets except for separately identifiable services in which case revenue is recognized upfront upon establishing a connection network. Amortization of deferred credit for the year is recognized as income in the statement of profit or loss.

#### 2.12 Borrowings

:

Financing and borrowings are initially recognized at fair value of the consideration received, net of transaction costs. They are subsequently measured at amortized cost using the effective interest method.

#### 2.13 Borrowing cost

Interest, mark-up and other charges on long term finances are capitalized up to the date of commissioning of respective qualifying assets acquired out of the proceeds of such long term finances. All other interest, mark-up and other charges are recognized in the statement of profit or loss.

#### 2.14 Loans, advances, deposits and receivables

These are recognized at cost less an estimate made for doubtful receivables based on a review of all outstanding amounts at the year end.

### 2.15 Share capital

Ordinary shares are classified as share capital. Incremental costs directly attributable to the issue of new shares are shown in equity as a deduction, net of tax.

#### 2.16 Trade and other payables

Trade and other payables are initially recognized at fair value plus directly attributable costs. These are subsequently measured at amortized cost.

#### 2.17 Impairment of non-financial assets

Assets that have an indefinite useful life are not subject to depreciation and are tested annually for impairment. Assets that are subject to depreciation are reviewed for impairment at each reporting date or whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognized for the amount for which assets carrying amount exceeds its recoverable amount. Recoverable amount is the higher of an asset's fair value less costs to sell and value in use. For the purposes of assessing impairment, assets are grouped at the lowest levels for which there are separately identifiable cash flows (cash-generating units). Non-financial assets that suffered an impairment are reviewed for possible reversal of the impairment at each reporting date. Reversals of the impairment losses are restricted to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation or amortization, if impairment losses had not been recognized. An impairment loss or reversal of impairment loss is recognized in the statement of profit or loss.

#### 2.18 Provisions

Provisions are recognized when the Company has a present, legal or constructive obligation as a result of past events and it is probable that an outflow of resources embodying economic benefits will be required to settle the obligations and reliable estimate of the amount can be made. However provisions are reviewed at each reporting date and adjusted to reflect current best estimate.

### 2.19 Earnings / (loss) per share

The Company presents basic and diluted earnings / (loss) per share data for its ordinary shares. Basic earnings / (loss) per share is calculated by dividing the profit attributable to ordinary shareholders or loss for the year of the Company by the weighted average number of ordinary shares outstanding during the period. Diluted earnings / (loss) per share is determined by adjusting the profit attributable to ordinary shareholders or loss for the year and the weighted average number of ordinary shares outstanding during the period. Diluted earnings / (loss) per share is determined by adjusting the profit attributable to ordinary shareholders or loss for the year and the weighted average number of ordinary shares outstanding for the effect of all dilutive potential ordinary shares.

#### 2.20 Contingent assets

Contingent assets are disclosed when the Company has a possible asset that arises from past events and whose existence will only be confirmed by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the Company. Contingent assets are not recognized until their realization becomes certain.

#### 2.21 Contingent liabilities

Contingent liability is disclosed when the Company has a possible obligation as a result of past events whose existence will only be confirmed by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the Company. Contingent liabilities are not recognized, only disclosed, unless the possibility of a future outflow of resources is considered remote. In the event that the outflow of resources associated with a contingent liability is assessed as probable, and if the size of the outflow can be reliably estimated, a provision is recognized in the financial statements.

#### 2.22 Intangible asset

Intangible asset represents the cost of computer software and is stated at cost less accumulated amortization and any identified impairment loss. Intangible asset is amortized from the month, when the assets becomes available for use, using the straight line method, whereby the cost of the intangible asset is amortized over its estimated useful life over which economic benefits are expected to flow to the Company. The useful life and amortization method is reviewed and adjusted, if appropriate, at each reporting date.

3. ISSUED, SUBSCRIBED AND PAID UP SHARE CAPITAL

2019 NUMBER	2018 R OF SHARES		2019 RUPEES	2018 RUPEES
1 000	1 000	Ordinary shares of Rupees 10 each fully paid in cash to Government of Pakistan (GoP) and its nominee directors	10,000	10,000
1 082 362 604	1 082 362 604	Ordinary shares of Rupees 10 each fully paid issued for consideration other than in cash to WAPDA	10,823,626,048	10,823,626,048
1 082 363 604	1 082 363 604		10,823,636,048	10,823,636,048

#### 4. DEPOSIT FOR SHARES

This represents credit of Rupees 31,337,632,169 (2018: Rupees 30,590,260,624) received by the Company in financial year 2014 from Central Power Purchase Agency (Guarantee) Limited (CPPA) in pursuance of letter No. F.1(5)-CF-1/2012-13/1017 dated 02 July 2013 from Ministry of Finance as GoP investment against circular debt of Rupees 341 billion. Hence this was treated as GoP equity investment in the Company. During the year on advice from CPPA, the Company booked the mark-up paid by the GoP in its books of account as financial charges and inserted it as equity amounting to Rupees 747,371,545.

	2019 RUPEES	2018 RUPEES	
LONG TERM FINANCING			$\bigcirc$
Loans from related party			
Secured			
From GoP - (foreign re-lent) :			
International Bank for Reconstruction and Development (Note 5.1)	3,849,036,226	3,849,036,226	
Asian Development Bank - Tranche I (Note 5.2)	1,354,866,393	1,354,866,393	
Asian Development Bank - Tranche II (Note 5.3)	2,168,842,944	2,152,657,090	
Asian Development Bank - Tranche III (Note 5.4)	3,118,563,244	2,926,079,291	
Asian Development Bank - Tranche IV (Note 5.5)	2,772,764,983	2,426,953,449	
	13,264,073,790	12,709,592,449	
Unsecured	, , , ,		
Cash Development Loan from GoP (Note 5.6)	797,050,000	797,050,000	
	14,061,123,790	13,506,642,449	
Other loans (Note 5.7, 5.8, 5.9, 5.10 and 5.11)	126,472,360	200,630,720	
	14,187,596,150	13,707,273,169	
Less:	······································		( )
Current portion shown under current liabilities	951,588,840	872,992,001	
Overdue portion shown under current liabilities	4,424,580,345	3,599,653,280	
	5,376,169,185	4,472,645,281	
	8,811,426,965	9,234,627,888	

5.1 This represents re-lent portion of loan obtained by the GoP from International Bank for Reconstruction and Development (IBRD) for electricity distribution and transmission improvement project which is secured against the guarantee by GoP, pursuant to the relent agreement between GoP and the Company. This facility carries interest at the rate of 17% per annum which comprises of relending interest of 11% per annum and exchange risk cover of 6% per annum payable on half yearly basis. Repayment of principal has to be made on half yearly basis within maximum period of 15 years including grace period of 2 years starting from September 2011. The overdue amount of principal and mark-up aggregate to Rupees 2,246.061 million (2018: Rupees 1,925.466 million) and Rupees 3,235.741 million (2018: Rupees 2,951.499 million) respectively.

5.2 This represents re-lent portion of loan obtained by GoP from Asian Development Bank (ADB) for Distribution Enhancement Investment Program which is secured against the guarantee by GoP, pursuant to the re-lent agreement between GoP and the Company. This facility carries interest at the rate of 17% inclusive of relending interest of 11% per annum plus exchange risk cover fee of 6% per annum which shall be charged both on principal amount and interest amount separately. Repayment of principal has to be made on half yearly basis within maximum period of 15 years including grace period of 2 years starting from February 2011. The overdue amount of principal and mark-up aggregate to Rupees 1,017.785 million (2018: Rupees 889.180 million) and Rupees 762.849 million (2018: Rupees 631.819 million) respectively.

- 5.3 This represents re-lent portion of loan obtained by GoP from ADB for Distribution Enhancement Investment Program which is secured against the guarantee by GoP, pursuant to the re-lent agreement between GoP and the Company. Disbursements during the year of Rupees 16.186 million (2018: Rupees 30.495 million) have been transferred to the Company. This facility carries interest at the rate of 15% inclusive of relending interest of 8.2% per annum plus exchange risk cover fee of 6.8% per annum which shall be charged both on principal amount and interest amount separately. Repayment of principal has to be made on half yearly basis within maximum period of 17 years excluding grace period of 3 years starting from June 2014. The overdue amount of principal and mark-up aggregate to Rupees 657.980 million (2018: Rupees 527.032 million) and Rupees 1,348.291 million (2018: Rupees 1,119.731 million) respectively.
- **5.4** This represents re-lent portion of loan obtained by GoP from ADB for Distribution Enhancement Investment Program which is secured against the guarantee by GoP, pursuant to the re-lent agreement between GoP and the Company. Disbursements during the year of Rupees 192.484 million (2018: Rupees 421.003 million) have been transferred to the Company. This facility carries interest at the rate of 15% inclusive of relending interest of 8.2% per annum plus exchange risk cover fee of 6.8% per annum which shall be charged both on principal amount and interest amount separately. Repayment of principal has to be made on half yearly basis within maximum period of 25 years including grace period of 5 years starting from June 2018. The overdue amount of principal and mark-up aggregate to Rupees 227.578 million (2018: Rupees 72.529 million) and Rupees 977.095 million (2018: Rupees 572.174 million) respectively.
- 5.5 This represents re-lent portion of loan obtained by GoP from ADB for Distribution Enhancement Investment Program which is secured against the guarantee by GoP, pursuant to the re-lent agreement between GoP and the Company. Disbursements during the year of Rupees 345.812 million (2018: 569.508 million) have been transferred to the Company. This facility carries interest at the rate of 15% inclusive of relending interest of 8.2% per annum plus exchange risk cover fee of 6.8% per annum which shall be charged both on principal amount and interest amount separately. Repayment of principal will be started from June 2019 and will be repaid on half yearly basis within maximum period of 25 years including grace period of 5 years. The overdue amount of principal and mark-up aggregate to Rupees 69.319 million (2018: Rupees Nil) and Rupees 635.419 million (2018: Rupees Nil) respectively.
- 5.6 This represents a loan obtained from the GoP under "Prime Minister's Southern Punjab Development Package" for construction of new grid stations and laying transmission lines. The limit of the loan facility is Rupees 1,228 million. As per instructions of the Finance Division of GoP for loan disbursements, the interest shall be chargeable at a prevailing rate of interest for respective year, which has been assessed as 17% per annum by the Company. Repayment of principal has to be made on yearly basis within maximum period of 20 years including grace period of 5 years starting from June 2015. The overdue amount of principal and mark-up aggregate to Rupees 199.263 million (2018: Rupees 159.410 million) and Rupees 762.184 million (2018: Rupees 660.560 million) respectively.
- 5.7 These include Rupees 13.889 million (2018: Rupees 61.11 million) interest free loan from RYK Mills Limited under an agreement to meet expenses for grid interconnection. The loan is repayable in 36 equal monthly installments commencing after 18 months of commercial operation date of the project which is 21 March 2015. The overdue amount of principal aggregates to Rupees 2.778 million (2018: Rupees 16.667 million).
- **5.8** These included Rupees Nil (2018: Rupees 9.47 million) interest free loan from JDW Sugar Mills Limited under an agreement to meet expenses for grid interconnection. This loan has been completely repaid during the year.
- 5.9 These include two interest free loans of Rupees 11.57 million (2018: Rupees 24.59 million) and Rupees 15.56 million (2018: Rupees 20 million) from Hamza Sugar Mills Limited under an agreement to meet expenses for grid interconnection. Loan No. 1 is repayable in 36 equal monthly installments commencing after 18 months of commercial operation date of the project which is 01 March 2016. The overdue amount of principal aggregate to Rupees 0.723 million (2018: Rupees 5.063 million). Loan No. 2 is repayable in 36 equal monthly installments commencing after 18 months of commercial operation date of the project which is 10 March 2017. The overdue amount of principal aggregates to Rupees 0.555 million (2018: Rupees Nil).
- **5.10** These include Rupees 55 million (2018: Rupees 55 million) interest free loan from The Thal Industries Corporation Limited under an agreement to meet expenses for grid interconnection. The loan is repayable in 36 equal monthly installments commencing after 18 months of commercial operation date of the project which has not yet been assessed.
- 5.11 These include Rupees 30.455 million (2018: Rupees 30.455 million) interest free loan from Harappa Solar (Private) Limited under an agreement to meet expenses for grid interconnection. The loan is repayable in 36 equal monthly installments commencing after 17 months of commercial operation date which is 14 October 2017. The overdue amount of principal aggregates to Rupees 2.538 million (2018: Rupees Nil).
- **5.12** The fair value adjustment in accordance with the requirements of IFRS 9 'Financial Instruments' arising in respect of the loans given in Notes 5.7, Note 5.9 to Note 5.11 is not considered material and hence not recognized.

		2019 RUPEES	2018 RUPEES
6.	STAFF RETIREMENT BENEFITS		
	Free medical benefits (Note 6.1)	6,690,277,642	4,493,494,423
	Pension (Note 6.1)	65,322,228,339	60,148,562,987
	Free electricity benefits (Note 6.1)	3,356,447,248	2,573,361,784
	Compensated absences (Note 6.1)	3,806,464,334	3,178,735,078
		79,175,417,563	70,394,154,272

6.1 Movement in the net liabilities recognized in the statement of financial position is as follows:

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|                                   | 30 June 2019             |                 |                              |                         |                 |
|-----------------------------------|--------------------------|-----------------|------------------------------|-------------------------|-----------------|
|                                   | Free medical<br>benefits | Pension         | Free electricity<br>benefits | Compensated<br>absences | Total           |
|                                   | RUPEES                   | RUPEES          | RUPEES                       | RUPEES                  | RUPEES          |
| Balance as at 01 July 2018        | 4.493.494.423            | 60,148,562,987  | 2,573 361 784                | 3 178 735 078           | 70 304 154 222  |
| Charge for the year (Note 6.2)    | 631,702,722              | 6,795,636,026   | 330.036.560                  | 921.471.585             | 8 678 846 893   |
| Remeasurement recognized in other |                          | ., ,            | ,,                           | <i>vzz, ii 2,</i> 000   | 0,070,070,070   |
| comprehensive income (Note 6.3)   | 1,580,306,908            | 2,478,153,017   | 534.073.279                  | -                       | 4.592.533.204   |
| Benefits paid                     | (15,226,411)             | (3,939,898,971) | (81.024.375)                 | (293,742,329)           | (4 329 892 086) |
| Contribution made                 | •                        | (160,224,720)   |                              | -                       | (160,224,720)   |
| Balance as at 30 June 2019        | 6,690,277,642            | 65,322,228,339  | 3,356,447,248                | 3,806,464,334           | 79,175,417,563  |
|                                   |                          |                 | 30 June 2018                 |                         |                 |

| Free medical<br>benefits | edical Pension F                                                                                                        | Free electricity<br>benefits                                                                                                                                                                                                                                                                              | Compensated<br>absences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Totai                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| RUPEES                   | RUPEES                                                                                                                  | RUPEES                                                                                                                                                                                                                                                                                                    | RUPEES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | RUPEES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| 3,364,973,045            | 47,278,337,451                                                                                                          | 3,364,975,998                                                                                                                                                                                                                                                                                             | 2.584.785.883                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 56.593.072.377                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 404,524,927              | 4,964,920,540                                                                                                           | 362,005,235                                                                                                                                                                                                                                                                                               | 818,968,052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6.550.418.754                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|                          |                                                                                                                         | •••••                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -,,,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 736.048.374              | 11.248.270.437                                                                                                          | (1.066.291.961)                                                                                                                                                                                                                                                                                           | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10 918 026 850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| (12,051,923)             | (2,886,891,608)                                                                                                         | (87,327,488)                                                                                                                                                                                                                                                                                              | (225.018.857)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (3.211.289.876)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| -                        | (456,073,833)                                                                                                           | -                                                                                                                                                                                                                                                                                                         | ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (456,073,833)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 4,493,494,423            | 60,148,562,987                                                                                                          | 2,573,361,784                                                                                                                                                                                                                                                                                             | 3,178,735,078                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 70.394.154.272                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                          | Free medical<br>benefits<br>RUPEES<br>3,364,973,045<br>404,524,927<br>736,048,374<br>(12,051,923)<br>-<br>4,493,494,423 | Free medical<br>benefits         Pension           RUPEES         RUPEES           3,364,973,045<br>404,524,927         47,278,337,451<br>4,964,920,540           736,048,374<br>(12,051,923)         11,248,270,437<br>(2,886,891,608)<br>- (456,073,833)           4,493,494,423         60,148,562,987 | Free medical<br>benefits         Pension         Free electricity<br>benefits           RUPEES         RUPEES         RUPEES           3,364,973,045         47,278,337,451         3,364,975,998           404,524,927         4,964,920,540         3,364,975,998           736,048,374         11,248,270,437         (1,066,291,961)           (12,051,923)         (2,886,891,608)         (87,327,488)           -         (456,073,833)         -           4,493,494,423         60,148,562,987         2,573,361,784 | Free medical<br>benefits         Pension         Free electricity<br>benefits         Compensated<br>absences           RUPEES         RUPEES         RUPEES         RUPEES         RUPEES           3,364,973,045         47,278,337,451         3,364,975,998         2,584,785,883           404,524,927         4,964,920,540         362,005,235         818,968,052           736,048,374         11,248,270,437         (1,066,291,961)         -           (12,051,923)         (2,866,891,608)         (87,327,488)         (225,018,857)           4,493,494,423         60,148,562,987         2,573,361,784         3,178,735,078 |  |

6.1.1 The amount of pension obligation recognized in the statement of financial position is as follows:

|                                              | 2019            | 2018            |
|----------------------------------------------|-----------------|-----------------|
|                                              | RUPEES          | RUPEES          |
| Present value of defined benefit obligations | 66,802,556,973  | 61,362,143,336  |
| Fair value of pian assets                    | (1,480,328,633) | (1,213,580,349) |
|                                              | 65,322,228,340  | 60,148,562,987  |

6.2 Amounts recognized in the statement of profit or loss against defined benefit schemes are:

|                         |                          | 30 June 2019  |                              |                         |               |  |  |
|-------------------------|--------------------------|---------------|------------------------------|-------------------------|---------------|--|--|
|                         | Free medical<br>benefits | Pension       | Free electricity<br>benefits | Compensated<br>absences | Total         |  |  |
|                         | RUPEES                   | RUPEES        | RUPEES                       | RUPEES                  | RUPEES        |  |  |
| Current service cost    | 183,114,600              | 977,774,675   | 76,751,600                   | 54,123,805              | 1,291,764,681 |  |  |
| Interest cost           | 448,588,122              | 5,817,861,350 | 253,284,960                  | 303,186,391             | 6,822,920,823 |  |  |
| Actuarial losses        | •                        | -             | -                            | 564,161,389             | 564,161,389   |  |  |
| Net charge for the year | 631,702,722              | 6,795,636,026 | 330,036,560                  | 921,471,585             | 8,678,846,893 |  |  |
|                         |                          |               | 30 June 2018                 |                         | <u></u>       |  |  |
|                         | Free medical<br>benefits | Pension       | Free electricity<br>benefits | Compensated<br>absences | Totai         |  |  |
| ڼ                       | RUPEES                   | RUPEES        | RUPEES                       | RUPEES                  | RUPEES        |  |  |
| Current service cost    | 93,822,322               | 746,286,478   | 54,783,852                   | 47,957,060              | 942,849,712   |  |  |
| Interest cost           | 310,702,605              | 4,218,634,062 | 307,221,383                  | 228,685,572             | 5,065,243,622 |  |  |
| Actuarial losses        | -                        | -             | -                            | 542,325,420             | 542,325,420   |  |  |
| Net charge for the year | 404,524,927              | 4,964,920,540 | 362,005,235                  | 818,968,052             | 6,550,418,754 |  |  |

6.3 Remeasurement recognized in other comprehensive income:

|                        | 30 June 2019             |                 |                              |             |               |  |
|------------------------|--------------------------|-----------------|------------------------------|-------------|---------------|--|
|                        | Free medical<br>benefits | medical Pension | Free electricity<br>benefits | Compensated | Total         |  |
|                        | RUPEES                   | RUPEES          | RUPEES                       | RUPEES      | RUPEES        |  |
| Loss on obligation     | 1,580,306,908            | 2,463,318,547   | 534,073,279                  | -           | 4,577,698,734 |  |
| Loss on plan assets    | •                        | 14,834,470      | -                            | -           | 14,834,470    |  |
| Experience adjustments | 1,580,306,908            | 2,478,153,017   | 534,073,279                  |             | 4,592,533,204 |  |

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|                                                                     | 30 June 2018             |                                 |                              |                         |                                                    |
|---------------------------------------------------------------------|--------------------------|---------------------------------|------------------------------|-------------------------|----------------------------------------------------|
|                                                                     | Free medical<br>benefits | Pension                         | Free electricity<br>benefits | Compensated<br>absences | Total                                              |
|                                                                     | RUPEES                   | RUPEES                          | RUPEES                       | RUPEES                  | RUPEES                                             |
| Loss on obligation<br>(Gain) on obligation<br>(Gain) on plan assets | 736,048,374<br>-<br>-    | 11,797,004,477<br>(548,734,040) | -<br>(1,066,291,961)<br>-    | -                       | 12,533,052,851<br>(1,066,291,961)<br>(548,734,040) |
| Experience adjustments                                              | 735,048,374              | 11,248,270,437                  | (1,066,291,961)              |                         | 10,918,026,850                                     |

#### Movement in present value of defined benefit obligations: 6.4

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|                            | 30 June 2019             |                 |                           |                         |                 |
|----------------------------|--------------------------|-----------------|---------------------------|-------------------------|-----------------|
|                            | Free medical<br>benefits | Pension         | Free electricity benefits | Compensated<br>absences | Total           |
|                            | RUPEES                   | RUPEES          | RUPEES                    | RUPEES                  | RUPEES          |
| Balance as at 01 July 2018 | 4,493,494,423            | 60,148,562,987  | 2,573,361,784             | 3,178,735,078           | 70,394,154,272  |
| Current service cost       | 183,114,600              | 977,774,676     | 76,751,600                | 54,123,805              | 1,291,764,681   |
| Interest cost              | 448,588,122              | 5,817,861,350   | 253,284,960               | 303,186,391             | 6,822,920,823   |
| Benefits paid              | (15,226,411)             | (3,939,898,971) | (81,024,375)              | (293,742,329)           | (4,329,892,086) |
| Remeasurements             | 1,580,306,908            | 2,478,153,017   | 534,073,279               | -                       | 4,592,533,204   |
| Actuarial losses           | -                        | -               | -                         | 564,161,389             | 564,161,389     |
| Contribution made          | -                        | (160,224,720)   | -                         | -                       | (160,224,720)   |
| Balance as at 30 June 2019 | 6,690,277,642            | 65,322,228,339  | 3,356,447,248             | 3,806,464,334           | 79,175,417,563  |
|                            |                          |                 | 30 June 2018              |                         |                 |

| SU June 2018             |                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Free medical<br>benefits | Pension                                                                                                                        | Free electricity<br>benefits                                                                                                                                                                                                                                                                                                                                                              | Compensated<br>absences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| RUPEES                   | RUPEES                                                                                                                         | RUPEES                                                                                                                                                                                                                                                                                                                                                                                    | RUPEES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | RUPEES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3,364,973,045            | 47,278,337,451                                                                                                                 | 3,364,975,998                                                                                                                                                                                                                                                                                                                                                                             | 2,584,785,883                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 56,593,072,377                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 93,822,322               | 746,286,478                                                                                                                    | 54,783,852                                                                                                                                                                                                                                                                                                                                                                                | 47,957,060                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 942,849,712                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 310,702,605              | 4,218,634,062                                                                                                                  | 307,221,383                                                                                                                                                                                                                                                                                                                                                                               | 228,685,572                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5,065,243,622                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| (12,051,923)             | (2,886,891,608)                                                                                                                | (87,327,488)                                                                                                                                                                                                                                                                                                                                                                              | (225,018,857)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (3,211,289,876)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 736,048,374              | 11,248,270,437                                                                                                                 | (1,066,291,961)                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10,918,026,850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| -                        | -                                                                                                                              | -                                                                                                                                                                                                                                                                                                                                                                                         | 542,325,420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 542,325,420                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| -                        | (456,073,833)                                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (456,073,833)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 4,493,494,423            | 60,148,562,987                                                                                                                 | 2,573,361,784                                                                                                                                                                                                                                                                                                                                                                             | 3,178,735,078                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 70,394,154,272                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                          | Free medical<br>benefits<br>RUPEES<br>3,364,973,045<br>93,822,322<br>310,702,605<br>(12,051,923)<br>736,048,374<br>-<br>-<br>- | Free medical<br>benefits         Pension           RUPEES         RUPEES           3,364,973,045         47,278,337,451           93,822,322         746,286,478           310,702,605         4,218,634,062           (12,051,923)         (2,886,891,608)           736,048,374         11,248,270,437           -         (456,073,833)           4,493,494,423         60,148,562,987 | Free medical<br>benefits         Pension         Free electricity<br>benefits           RUPEES         RUPEES         RUPEES           3,364,973,045         47,278,337,451         3,364,975,998           93,822,322         746,286,478         54,783,852           310,702,605         4,218,634,062         307,221,383           (12,051,923)         (2,886,891,608)         (87,327,488)           736,048,374         11,248,270,437         (1,066,291,961)           -         (456,073,833)         -           4,493,494,423         60,148,562,987         2,573,361,784 | Free medical<br>benefits         Pension         Free electricity<br>benefits         Compensated<br>absences           RUPEES         RUPEES         RUPEES         RUPEES         RUPEES         RUPEES           3,364,973,045         47,278,337,451         3,364,975,998         2,584,785,883         93,822,322         746,286,478         54,783,852         47,957,060           310,702,605         4,218,634,062         307,221,383         228,685,572         (12,051,923)         (2,886,891,608)         (87,327,488)         (225,018,857)           736,048,374         11,248,270,437         (1,066,291,961)         -         -         -           -         -         -         -         542,325,420         -         -           4,493,494,423         60,148,562,987         2,573,361,784         3,178,735,078         - |

6.5 All of the investment of plan assets is in deposit account of a commercial bank.

#### Principal actuarial assumptions : 6.6

|                                                                                         | 30 June 2019             |                       |                              |                         |
|-----------------------------------------------------------------------------------------|--------------------------|-----------------------|------------------------------|-------------------------|
|                                                                                         | Free medical<br>benefits | Pension               | Free electricity<br>benefits | Compensated<br>absences |
| Discount rate (per annum)                                                               | 14.50%                   | 14.50%                | 14.50%                       | 14.25%                  |
| Inflation rate (per annum)                                                              | -                        | -                     | 12.50%                       | -                       |
| Annual medical claim - Rupees                                                           | 13,153                   | -                     | •                            | -                       |
| Salary increase rate used for year end obligation (per annum)                           | -<br>-                   | 14.00%                | -                            | -                       |
| Medical / pension / electricity indexation rate                                         | 14.50%                   | 8,25%                 | 0.1225                       | -                       |
| Medical exposure rate (per annum)                                                       | 14.50%                   | -                     | -                            | -                       |
| Mortality rates                                                                         | SLTC 2001-2005           | SLIC 2001-2005        | SLIC 2001-2005               | SLIC 2001-2005          |
| Horancy rates                                                                           | setback 1 year           | setback 1 and 4 years | setback 1 year               | setback 1 year          |
| Withdrawal rates                                                                        | Low                      | Low                   | Low                          | Low                     |
| Expected charge to the statement of profit or loss for the next financial year (Rupees) | 1,179,756,475            | 10,591,275,113        | 574,565,433                  | 613,909,085             |
|                                                                                         | 30 June 2018             |                       |                              |                         |
|                                                                                         | Free medical<br>benefits | Pension               | Free electricity<br>benefits | Compensated<br>absences |
|                                                                                         | 10 000/                  | 10.000/               | 10.0094                      | 10.00%                  |
| Discount rate (per annum)                                                               | 10.00%                   | 10.00%                | 10.00%                       | 10.00%                  |
| Inflation rate (per annum)                                                              | -                        | -                     | 0.0070                       | _                       |
| Annual medical claim - Rupees                                                           | 11,957                   | -                     | -                            | -                       |
| Salary increase rate used for year end obligation (per annum)                           | -                        | 9.50%                 | -                            | 9.3070                  |
| Medical / pension indexation rate                                                       | 10.00%                   | 5.75%                 | -                            | · -                     |
| Medical exposure rate (per annum)                                                       | 10.00%                   | -                     | CLIC 2001 2005               | -                       |
| Mortality rates                                                                         | SLIC 2001-2005           | SLIC 2001-2005        | SLIC 2001-2005               | SLIC 2001-2005          |

SLIC 2001-2005

setback 1 year

Low

570,707,523

setback 1 year

Low

7,028,086,935

Medical exposure rate (per annum) Mortality rates

#### Withdrawal rates

Expected charge to the statement of profit or loss for the next financial year (Rupees)

setback 1 year

Low

371,997,313

setback 1 year

Low

303,290,471

## 6.7 Sensitivity analysis for actuarial assumptions:

•

The sensitivity of the staff retirement benefits to changes in the weighted principal assumption is:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30 June 2019                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                 |                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Free medical<br>benefits                                                                                                                                                                                                                           | Pension                                                                                                                                                                                                                                                               | Free electricity<br>benefits                                                                                                                                                                                    | Compensated<br>absences                                                                                                                                                                                                       |
| Discount rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.00%                                                                                                                                                                                                                                              | 1 00%                                                                                                                                                                                                                                                                 | 1.009/                                                                                                                                                                                                          | 1.000/                                                                                                                                                                                                                        |
| Increase in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (1 103 055 655)                                                                                                                                                                                                                                    | 1.0070                                                                                                                                                                                                                                                                | 1.0070                                                                                                                                                                                                          | 1.00%                                                                                                                                                                                                                         |
| Decrease in assumption (Runees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1 337 236 830                                                                                                                                                                                                                                      | 12 644 773 107                                                                                                                                                                                                                                                        | (404,040,472)                                                                                                                                                                                                   | (373,200,523)                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1,332,230,030                                                                                                                                                                                                                                      | 12,044,725,197                                                                                                                                                                                                                                                        | 592,173,681                                                                                                                                                                                                     | 440,418,710                                                                                                                                                                                                                   |
| Medical exposure rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.00%                                                                                                                                                                                                                                              | -                                                                                                                                                                                                                                                                     | -                                                                                                                                                                                                               | -                                                                                                                                                                                                                             |
| Increase in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 481,699,991                                                                                                                                                                                                                                        | •                                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                               | -                                                                                                                                                                                                                             |
| Decrease in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (414,797,213)                                                                                                                                                                                                                                      | -                                                                                                                                                                                                                                                                     | -                                                                                                                                                                                                               | -                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                 |                                                                                                                                                                                                                               |
| Medical inflation rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.00%                                                                                                                                                                                                                                              | -                                                                                                                                                                                                                                                                     | -                                                                                                                                                                                                               | •                                                                                                                                                                                                                             |
| Increase in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1,357,364,759                                                                                                                                                                                                                                      | -                                                                                                                                                                                                                                                                     | -                                                                                                                                                                                                               | -                                                                                                                                                                                                                             |
| Decrease in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (1,138,311,151)                                                                                                                                                                                                                                    | -                                                                                                                                                                                                                                                                     | -                                                                                                                                                                                                               | -                                                                                                                                                                                                                             |
| Withdrawal rates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10.00%                                                                                                                                                                                                                                             | 10.00%                                                                                                                                                                                                                                                                | 10 00%                                                                                                                                                                                                          | 10.00%                                                                                                                                                                                                                        |
| Increase in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (9.366.388)                                                                                                                                                                                                                                        | 1 446 927 355                                                                                                                                                                                                                                                         | (2.013.868)                                                                                                                                                                                                     | 3 806 464                                                                                                                                                                                                                     |
| Decrease in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 11.373.472                                                                                                                                                                                                                                         | 1.513.729.911                                                                                                                                                                                                                                                         | 2.013.868                                                                                                                                                                                                       | (3,806,464)                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | , , , , , , , , , , , , , , , , , , , ,                                                                                                                                                                                                            | -,,,                                                                                                                                                                                                                                                                  | _//                                                                                                                                                                                                             | (0,000, 101)                                                                                                                                                                                                                  |
| Future salary increase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                                                                                                                                                                                                                                                  | 1.00%                                                                                                                                                                                                                                                                 | -                                                                                                                                                                                                               | 1.00%                                                                                                                                                                                                                         |
| Increase in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                                                                                                                                                                                  | 4,630,146,172                                                                                                                                                                                                                                                         | •                                                                                                                                                                                                               | 440,371,816                                                                                                                                                                                                                   |
| Decrease in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                                                                                                                                                                                  | (1,296,163,505)                                                                                                                                                                                                                                                       | -                                                                                                                                                                                                               | (379,478,634)                                                                                                                                                                                                                 |
| Indexation rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                                                                                                                                                                                  | 1 00%                                                                                                                                                                                                                                                                 | -                                                                                                                                                                                                               |                                                                                                                                                                                                                               |
| Increase in assumption (Ruoees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                                                                                                                                                                                  | 9 362 154 945                                                                                                                                                                                                                                                         | 643 430 937                                                                                                                                                                                                     | -                                                                                                                                                                                                                             |
| Decrease in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                                                                                                                                                                                  | (2.051.255.932)                                                                                                                                                                                                                                                       | (503,467,087)                                                                                                                                                                                                   | -                                                                                                                                                                                                                             |
| ( · · · ( · · · · )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                    | (_,,,,                                                                                                                                                                                                                                                                | (,,                                                                                                                                                                                                             |                                                                                                                                                                                                                               |
| Mortality setback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 year                                                                                                                                                                                                                                             | 1 year                                                                                                                                                                                                                                                                | 1 year                                                                                                                                                                                                          | 1 year                                                                                                                                                                                                                        |
| Increase in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (250,885,411)                                                                                                                                                                                                                                      | 4,183,547,201                                                                                                                                                                                                                                                         | -                                                                                                                                                                                                               | (2,550,331)                                                                                                                                                                                                                   |
| Decrease in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 252,892,495                                                                                                                                                                                                                                        | 2,057,896,898                                                                                                                                                                                                                                                         | •                                                                                                                                                                                                               | 2.550.331                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                    | 1 1                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                 |                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                    | 30 June                                                                                                                                                                                                                                                               | 2018                                                                                                                                                                                                            |                                                                                                                                                                                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Free medical                                                                                                                                                                                                                                       | 30 June                                                                                                                                                                                                                                                               | e 2018<br>Free electricity                                                                                                                                                                                      | Compensated                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Free medical benefits                                                                                                                                                                                                                              | 30 June<br>Pension                                                                                                                                                                                                                                                    | e 2018<br>Free electricity<br>benefits                                                                                                                                                                          | Compensated<br>absences                                                                                                                                                                                                       |
| Discount rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Free medicai<br>benefits                                                                                                                                                                                                                           | 30 June<br>Pension                                                                                                                                                                                                                                                    | 2018<br>Free electricity<br>benefits                                                                                                                                                                            | Compensated<br>absences                                                                                                                                                                                                       |
| Discount rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Free medicai<br>benefits                                                                                                                                                                                                                           | 30 June<br>Pension<br>1.00%<br>(5.668.370.813)                                                                                                                                                                                                                        | 2018<br>Free electricity<br>benefits<br>1.00%<br>(374.283.853)                                                                                                                                                  | Compensated<br>absences<br>1.00%<br>(341.551.744)                                                                                                                                                                             |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Free medical<br>benefits<br>1.00%<br>(739,090,744)<br>972,502,717                                                                                                                                                                                  | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358                                                                                                                                                                                                       | 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645                                                                                                                                   | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687                                                                                                                                                              |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Free medicai<br>benefits<br>1.00%<br>(739,090,744)<br>972,502,717                                                                                                                                                                                  | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358                                                                                                                                                                                                       | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645                                                                                                                                 | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687                                                                                                                                                              |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Free medicai<br>benefits<br>1.00%<br>(739,090,744)<br>972,502,717<br>1.00%<br>376 851 488                                                                                                                                                          | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358                                                                                                                                                                                                       | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645                                                                                                                                 | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687                                                                                                                                                              |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Free medicai<br>benefits<br>1.00%<br>(739,090,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)                                                                                                                                         | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358                                                                                                                                                                                                       | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645                                                                                                                                 | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687                                                                                                                                                              |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Free medicai<br>benefits<br>1.00%<br>(739,059,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)                                                                                                                                         | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-                                                                                                                                                                                        | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-                                                                                                                       | Compensated<br>absences<br>1.00%<br>(341,551,744)<br>180,190,687<br>-<br>-                                                                                                                                                    |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Free medicai<br>benefits<br>1.00%<br>(739,059,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%                                                                                                                                | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-                                                                                                                                                                                   | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-                                                                                                                       | Compensated<br>absences<br>1.00%<br>(341,551,744)<br>180,190,687<br>-<br>-<br>-                                                                                                                                               |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Free medicai<br>benefits<br>1.00%<br>(739,059,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,052)                                                                                                | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>-                                                                                                                                                                              | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>-                                                                                                             | Compensated<br>absences<br>1.00%<br>(341,551,744)<br>180,190,687<br>-<br>-<br>-                                                                                                                                               |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Free medicai<br>benefits<br>1.00%<br>(739,C90,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)                                                                                                | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                                                                          | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                              | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687<br>-<br>-<br>-<br>-                                                                                                                                          |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Withdrawal rates                                                                                                                                                                                                                                                                                                                                                                                                                                    | Free medicai<br>benefits<br>1.00%<br>(739,C90,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)<br>10.00%                                                                                      | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                                                        | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>-<br>-<br>10.00%                                                                                              | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                                              |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Withdrawal rates<br>Increase in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                                 | Free medicai<br>benefits<br>1.00%<br>(739,C90,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)<br>10.00%<br>(6,951,780)                                                                       | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>1,180,196,379                                                                                                                                         | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>-<br>10.00%<br>(1,498,864)                                                                                    | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>(96,969,622)                                                                                                           |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)                                                                                                                                                                                                                                                                                                                                                                                  | Free medicai<br>benefits<br>1.00%<br>(739,C90,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)<br>10.00%<br>(6,951,780)<br>6,998,645                                                          | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>1,180,196,379<br>1,247,158,799                                                                                                                             | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>(1,498,864)<br>1,507,606                                                                  | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>(96,969,622)<br>(103,049,615)                                                                                          |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Withdrawal rates<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Every construction (Rupees)                                                                                                                                                                                                                                                                                            | Free medicai<br>benefits<br>1.00%<br>(739,090,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)<br>10.00%<br>(6,951,780)<br>6,998,645                                                          | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>1,180,196,379<br>1,247,158,799<br>1.00%                                                                                                                         | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>(1,498,864)<br>1,507,606                                                                  | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687<br>-<br>-<br>-<br>-<br>10.00%<br>(96,969,622)<br>(103,049,615)<br>1.00%                                                                                      |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Withdrawal rates<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Future salary increase<br>Increase in assumption (Rupees)                                                                                                                                                                                                                                                              | Free medicai<br>benefits<br>1.00%<br>(739,090,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)<br>10.00%<br>(6,951,780)<br>6,998,645                                                          | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>10.00%<br>1,180,196,379<br>1,247,158,799<br>1.00%<br>4,275,993,190                                                                                                             | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>-<br>10.00%<br>(1,498,864)<br>1,507,606<br>-<br>-                                                             | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687<br>-<br>-<br>-<br>-<br>10.00%<br>(96,969,622)<br>(103,049,615)<br>1.00%<br>194,120,900                                                                       |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Withdrawal rates<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Future salary increase<br>Increase in assumption (Rupees)<br>Future salary increase<br>Increase in assumption (Rupees)                                                                                                                                                                                                                                    | Free medicai<br>benefits<br>1.00%<br>(739,059,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)<br>10.00%<br>(6,951,780)<br>6,998,645<br>-                                                     | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>10.00%<br>1,180,196,379<br>1,247,158,799<br>1.00%<br>4,275,993,190<br>(1,480,456,239)                                                                                          | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>(1,498,864)<br>1,507,606<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687<br>-<br>-<br>-<br>-<br>10.00%<br>(96,969,622)<br>(103,049,615)<br>1.00%<br>194,120,900<br>(357,633,479)                                                      |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Withdrawal rates<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Future salary increase<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Increase in assumption (Rupees)                                                                                                                                                                                        | Free medicai<br>benefits<br>1.00%<br>(739,059,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)<br>10.00%<br>(6,951,780)<br>6,998,645                                                          | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>1,180,196,379<br>1,247,158,799<br>1.00%<br>4,275,993,190<br>(1,480,456,239)<br>1.00%                                                                            | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>-<br>10.00%<br>(1,498,864)<br>1,507,606<br>-<br>-<br>-<br>1.00%                                               | Compensated<br>absences<br>1.00%<br>(341,551,744)<br>180,190,687<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>(96,969,622)<br>(103,049,615)<br>1.00%<br>194,120,900<br>(357,633,479)                                                 |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Withdrawal rates<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Future salary increase<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Increase in assumption (Rupees)                                                                                                                                                                                        | Free medicai<br>benefits<br>1.00%<br>(739,059,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)<br>10.00%<br>(6,951,780)<br>6,998,645<br>-<br>-<br>-                                           | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>1,180,196,379<br>1,247,158,799<br>1.00%<br>4,275,993,190<br>(1,480,456,239)<br>1.00%<br>6,848,759,303                                                           | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>-<br>10.00%<br>(1,498,864)<br>1,507,606<br>-<br>-<br>-<br>1.00%<br>494,214,373                                | Compensated<br>absences<br>1.00%<br>(341,551,744)<br>180,190,687<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>(96,969,622)<br>(103,049,615)<br>1.00%<br>194,120,900<br>(357,633,479)<br>-                                            |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Withdrawal rates<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Future salary increase<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Indexation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)                                                                                               | Free medicai<br>benefits<br>1.00%<br>(739,C90,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)<br>10.00%<br>(6,951,780)<br>6,998,645<br>-<br>-<br>-<br>-<br>-                                 | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>1,180,196,379<br>1,247,158,799<br>1.00%<br>4,275,993,190<br>(1,480,456,239)<br>1.00%<br>6,848,759,303<br>(3,619,335,420)                                        | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>10.00%<br>(1,498,864)<br>1,507,606<br>-<br>-<br>1.00%<br>494,214,373<br>(388,529,766)                         | Compensated<br>absences<br>1.00%<br>(341,551,744)<br>180,190,687<br>-<br>-<br>-<br>-<br>-<br>10.00%<br>(96,969,622)<br>(103,049,615)<br>1.00%<br>194,120,900<br>(357,633,479)<br>-<br>-                                       |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Indexation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees) | Free medicai<br>benefits<br>1.00%<br>(739,C90,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)<br>10.00%<br>(6,951,780)<br>6,998,645<br>-<br>-<br>-<br>-<br>-<br>-                            | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>10.00%<br>1,180,196,379<br>1,247,158,799<br>1.00%<br>4,275,993,190<br>(1,480,456,239)<br>1.00%<br>6,848,759,303<br>(3,619,335,420)                                             | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>10.00%<br>(1,498,864)<br>1,507,606<br>-<br>-<br>1.00%<br>494,214,373<br>(388,529,766)                         | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                                                               |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Withdrawal rates<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Future salary increase<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Indexation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Mortality setback<br>Increase in assumption (Rupees)                                       | Free medicai<br>benefits<br>1.00%<br>(739,C90,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)<br>10.00%<br>(6,951,780)<br>6,998,645<br>-<br>-<br>-<br>-<br>1 year<br>(173,935,929)           | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>10.00%<br>1,180,196,379<br>1,247,158,799<br>1.00%<br>4,275,993,190<br>(1,480,456,239)<br>1.00%<br>6,848,759,303<br>(3,619,335,420)<br>1 year<br>1.349,030,787                  | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>10.00%<br>(1,498,864)<br>1,507,606<br>-<br>-<br>1.00%<br>494,214,373<br>(388,529,766)<br>-                    | Compensated<br>absences<br>1.00%<br>(341,561,744)<br>180,190,687<br>-<br>-<br>-<br>-<br>10.00%<br>(96,969,622)<br>(103,049,615)<br>1.00%<br>194,120,900<br>(357,633,479)<br>-<br>-<br>1 year<br>(101,885,477)                 |
| Discount rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical exposure rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Medical inflation rate<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Withdrawal rates<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)<br>Mortality setback<br>Increase in assumption (Rupees)<br>Decrease in assumption (Rupees)              | Free medicai<br>benefits<br>1.00%<br>(739,C90,744)<br>972,502,717<br>1.00%<br>326,851,488<br>(280,835,058)<br>1.00%<br>604,680,454<br>(507,244,392)<br>10.00%<br>(6,951,780)<br>6,998,645<br>-<br>-<br>-<br>1 year<br>(173,935,929)<br>174,016,715 | 30 June<br>Pension<br>1.00%<br>(5,668,370,813)<br>9,688,952,358<br>-<br>-<br>-<br>-<br>10.00%<br>1,180,196,379<br>1,247,158,799<br>1.00%<br>4,275,993,190<br>(1,480,456,239)<br>1.00%<br>6,848,759,303<br>(3,619,335,420)<br>1 year<br>1,349,030,787<br>1,083,070,311 | 2 2018<br>Free electricity<br>benefits<br>1.00%<br>(374,283,853)<br>481,469,645<br>-<br>-<br>-<br>10.00%<br>(1,498,864)<br>1,507,606<br>-<br>-<br>1.00%<br>494,214,373<br>(388,529,766)<br>-<br>-<br>-          | Compensated<br>absences<br>1.00%<br>(341,551,744)<br>180,190,687<br>-<br>-<br>-<br>-<br>10.00%<br>(96,969,622)<br>(103,049,615)<br>1.00%<br>194,120,900<br>(357,633,479)<br>-<br>-<br>1 year<br>(101,885,477)<br>(98,122,586) |

The sensitivity analysis is based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. When calculating the sensitivity of the staff retirement benefits to significant actuarial assumptions, the same method (present value of the staff retirement benefits calculated with the projected unit credit method at the end of the reporting period) has been applied as when calculating the gratuity liability recognized within the statement of financial position.

The methods and types of assumptions used in preparing the sensitivity analysis were changed as compared to the previous year due to upward trend in discount rate structure and increase in inflationary expectations.
6.8

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## Historical information:

|                                                     | 2019<br>RUPEES | 2018<br>RUPEES  | 2017<br>RUPEES | 2016<br>RUPEES | 2015<br>RUPEES |
|-----------------------------------------------------|----------------|-----------------|----------------|----------------|----------------|
| Present value of defined benefit<br>obligations of: |                |                 |                |                |                |
| Free medical benefits                               | 6,690,277,642  | 4,493,494,423   | 3,364,973,045  | 2,590,161,447  | 1,883,031,024  |
| Pension                                             | 65,322,228,339 | 60,148,562,987  | 47,278,337,451 | 35,519,209,613 | 24,608,307,733 |
| Free electricity benefits                           | 3,356,447,248  | 2,573,361,784   | 3,364,975,998  | 2,850,264,762  | 1,906,856,545  |
| Compensated absences                                | 3,806,464,334  | 3,178,735,078   | 2,584,785,883  | 2,050,896,152  | 1,482,550,166  |
| Remeasurement loss / (gain) on<br>obligations of:   |                |                 |                |                |                |
| Free medical benefits                               | 1,580,306,908  | 736,048,374     | 463,636,398    | 443,132,973    | 58,179,514     |
| Pension                                             | 2,478,153,017  | 11,248,270,437  | 10,740,884,240 | 6,834,840,531  | 1,148,182,436  |
| Free electricity benefits                           | 534,073,279    | (1,066,291,961) | 261,897,020    | 765,945,452    | (85,664,673)   |
| Compensated absences                                | 564,161,389    | 542,325,420     | 485,454,988    | 541,022,360    | 39,383,961     |

#### 6.9 Risks associated with staff retirement benefits

#### Longevity risk

The risk arises when the actual lifetime of retirees is longer than expectation. This risk is measured at the plan level over the entire retiree population.

#### Salary increase risk

The most common type of retirement benefit is one where the benefit is linked with final salary. The risk arises when the actual increases are higher than expectation and impacts the liability accordingly.

#### Withdrawal risk

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The risk of actual withdrawals varying with the actuarial assumptions can impose a risk to the benefit obligation. The movement of the liability can go either way.

#### 7. LONG TERM SECURITY DEPOSITS

These represent security deposits received from consumers on account of electricity connections. These are refundable / adjustable on disconnection of electricity supply.

| 8. | RECEIPT AGAINST DEPOSIT WORKS                                                                               | 2019<br>RUPEES                  | 2018<br>RUPEES                  |
|----|-------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|
|    | Consumers demand notices awaiting connections (Note 8.1)<br>Funds received against deposit works (Note 8.2) | 4,823,951,134<br>15,899,024,883 | 3,137,958,562<br>17,310,976,416 |
|    |                                                                                                             | 20,722,976,017                  | 20,448,934,978                  |

8.1 These represent amounts received from consumers through demand notices against which the related works / jobs have not been completed.

8.2 These represent amounts received directly by the Company for electrification of villages, colonies and other deposit works, mainly provided through Government funding against which the related works / jobs have not been completed.

|                           | 2019<br>RUPEES | 2018<br>RUPEES<br>Restated |
|---------------------------|----------------|----------------------------|
| DEFERRED CREDIT           |                |                            |
| Balance as at 01 July     | 74,209,857,963 | 67,987,228,115             |
| Addition during the year  | 7,733,237,096  | 6,222,629,848              |
|                           | 81,943,095,059 | 74,209,857,963             |
| Less: Amortization        |                |                            |
| Balance as at 01 July     | 21,989,690,376 | 19,499,525,221             |
| Amortization for the year | 2,758,528,394  | 2,490,165,155              |
|                           | 24,748,218,770 | 21,989,690,376             |
| Balance as at 30 June     | 57,194,876,289 | 52,220,167,587             |
|                           |                |                            |

9.1 This represents the capital contributions received from consumers, Government and USAID against which assets are constructed by the Company.

| 10.  | TRADE AND OTHER PAYABLES                                   | 2019<br>RUPEES  | 2018<br>RUPEES  |
|------|------------------------------------------------------------|-----------------|-----------------|
|      | Creditors                                                  | 3,203,238,163   | 3.203.495.842   |
|      | Equalization surcharge payable                             | 2,235,784,140   | 2,235,374,934   |
|      | Due to associated companies (Note 10.1)                    | 107,784,414,901 | 101.790,108,312 |
|      | Accrued liabilities                                        | 1,026,265,209   | 1,174,052,095   |
|      | Retention money payable                                    | 855,663,073     | 563.767.237     |
|      | Electricity duty payable                                   | 360,849,896     | 345,118,648     |
|      | Neelum Jhelum surcharge payable                            | 169,431,383     | 316,427,013     |
|      | T.V. license fees payable                                  | 138,752,150     | 134,570,821     |
|      | Financing cost surcharge                                   | 1,296,471,778   | 1,417,987,078   |
|      | Tariff rationalization surcharge                           | 1,762,846,490   | 1,525,061,095   |
|      | Compact Fluorescent Lamps cost payable (Note 10.2)         | 807,373,696     | 807,373,696     |
|      | Workers' profit participation fund (Note 10.3)             | 1,692,118,856   | 1,692,118,856   |
|      | Other liabilities                                          | 973,435,976     | 840,585,609     |
| 10.1 | Due to associated companies                                | 122,306,645,711 | 116,046,041,236 |
|      |                                                            |                 |                 |
|      | Central Power Purchasing Agency (Guarantee) Limited (CPPA) | 104,090,970,184 | 101,718,687,727 |
|      | Hyderabad Electric Supply Company Limited (HESCO)          | 925,667         | 507,081         |
|      | Gujranwala Electric Power Company Limited (GEPCO)          | 17,910,967      | 20,527,141      |
|      | Faisalabad Electric Supply Company Limited (FESCO)         | 61,595,780      | 50,386,363 🔾    |
|      | National Transmission and Despatch Company Limited (NTDC)  | 3,604,849,050   | -               |
|      | Sukkur Electric Power Company Limited (SEPCO)              | 8,163,253       | -               |
|      |                                                            | 107,784,414,901 | 101,790,108,312 |

10.2 During financial year 2013-14, the Company had received Compact Fluorescent Lamps (CFLs) from Pakistan Electric Power Company (PEPCO) under the Clean Development Mechanism (CDM) Program of activities -"National CFL Project - Pakistan". CFLs cost will have to be borne by the Company from its distribution margin.

10.3 The Company has not made payment of its contribution towards Workers' Profit Participation Fund (WPPF), being the Company's liability on account of provision of Companies Profit (Workers' Participation) Act, 1968 uptill 30 June 2015. This matter is pending for decision with Economic Coordination Committee (ECC) upon recommendation submitted by WAPDA to exempt the undertakings established under the umbrella of WAPDA from compliance with the requirements of Companies Profit (Workers' Participation) Act, 1968. Due to pending decision with the ECC, no provision for mark-up is made as required under Companies Profit (Workers' Participation) Act, 1968. However, the Company has shown the mark-up as contingent liability under Note 12.1.2 to the financial statements.

# 11. ACCRUED MARK-UP

| Foreign re-lent loans Note (11.1)                             | 1,503,078,535 | 1,159,892,650 |
|---------------------------------------------------------------|---------------|---------------|
| Cash development loan                                         | 80,597,696    | 101,623,875   |
| Overdue mark-up on foreign re-lent and cash development loans | 7,721,578,614 | 5,935,784,352 |
|                                                               | 9,305,254,845 | 7,197,300,877 |

**11.1** These include accrued mark-up amounting to Rupees 626.688 million which were previously shown as deferred mark-up.

# 12. CONTINGENCIES AND COMMITMENTS

# 12.1 Contingencies

**12.1.1** The Company has received various invoices from CPPA representing late payment charges (supplementary charges) being the share of the Company in the mark-up charged to CPPA by Independent Power Producers (IPPs) on account of delayed payments aggregating to Rupees 17,058.28 million (2018: Rupees 14,089.28 million).

As mentioned in Para 18 of tariff determination by NEPRA communicated through letter no. NEPRA/TRF-283/MEPCO-2014/4264-4266 dated 27 March 2015 and Para 8.10 and 20 of tariff determination by NEPRA communicated through letter no. NEPRA/TRF-332/MEPCO-2015/2697-2699 dated 29 February 2016, it was mutually agreed by the representatives of CPPA and distribution companies that, as per clause 9.3(d) of electricity supply agreement dated 29 June 1998 between DISCOs and NTDC, the DISCOs are obliged to pay late payment charges (supplementary charges) to CPPA on account of delay payments of invoices.

NEPRA has decided that the late payment charges (supplementary charges) recovered from consumers on utility bills shall be offset against the late payment charges (supplementary charges) invoices raised by CPPA and CPPA cannot account for late payment charges (supplementary charges) over and above what is calculated as per agreement. Therefore, no provision for late payment charges (supplementary charges) of Rupees 13,244.70 million have been recognized in these financial statements as the management is of the view that supplementary charges have not been allowed as expense by NEPRA in tariff determination.

- 12.1.2 The Companies Profit (Workers' Participation) Act, 1968 requires payment of the allocated amount to the workers profit participation fund within nine months of the close of relevant financial year. However, due to pending decision of the Economic Coordination Committee to exempt the corporatized entities under the umbrella of WAPDA from requirements of the said Act, no provision for interest aggregating to Rupees 1,531.48 million (2018: Rupees 1,117.12 million) on unpaid amount has been recognized by the Company in these financial statements.
- 12.1.3 In addition to above-mentioned matters, large number of small cases have been filed against the Company, primarily by the Company's employees, customers and vendors, the quantum of which cannot be estimated reliably. However, the management is of the view that in the overall context of these financial statements, there would be no significant liability of the Company against such cases.

## 12.1.4 Income Tax

- (i) Additional Commissioner Inland Revenue amended the deemed assessments under section 120 of the Income Tax Ordinance, 2001 (the Ordinance) by passing an order under section 122(5A) of the Ordinance on the grounds that the minimum tax liability under section 113 was not discharged. He passed the orders vide DCR No. 10/07 dated 02 February 2015 and 19/18 dated 14 April 2015 for tax years 2010 and 2013 and created a demand of Rupees 5.63 million for the Tax Year 2010 and Rupees 109.82 million for the Tax Year 2013. Being aggrieved from the impugned orders, the Company filed appeals before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 05 May 2015 and the same was upheld by the Learned CIR(A). Appeal against the orders of CIR(A) has been filed with the Appellate Tribunal Inland Revenue on 19 October 2015 which is pending for adjudication.
- (ii) Inland Revenue Audit Officer passed an order no. DCR 01/54 dated 12 November 2007 for the tax year 2007 under section 161 and 205 of the Ordinance creating a demand amounting to Rupees 10.22 million on grounds that withholding tax was not timely deducted by the Company on payments to certain parties. Being aggrieved an appeal was filed with Commissioner Inland Revenue (Appeals) (CIR(A)) and same was upheld by the Learned CIR (A). Against the orders of Learned CIR(A), second appeal was filed before Appellate Tribunal Inland Revenue. The matter is pending for adjudication.
- (iii) Additional Commissioner Inland Revenue (ACIR) passed the orders vide 92/10 dated 26 February 2009 under section 113 of the Ordinance and charged income tax on turnover for the tax year 2007 amounting to Rupees 153 million and for the tax year 2008 amounting to Rupees 72 million along with default surcharge of Rupees 9.9 million and Rupees 2 million respectively. Being aggrieved from the impugned orders, the Company filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) and the same was upheld by the Learned CIR(A). Subsequently appeal against the orders of CIR(A) was filed with the Appellate Tribunal Inland Revenue (ATIR) on 14 May 2009 who upheld the orders of CIR (A). Being aggrieved with both forums writ petition is filed before Honorable Lahore High Court, Lahore vide petition no. PTR 43/2011 and PTR 44/2011. The Honorable Lahore High Court, Lahore remanded back the case to the full bench of ATIR, which is pending for adjudication.
- (iv) Additional Commissioner Inland Revenue amended the deemed assessment under section 122(5A) of the Ordinance for the tax year 2014 vide bar code no.10000008089093 dated 12 November 2015 on ground that the minimum tax liability under section 113 was not discharged and thereby raised a demand of Rupees 1,736 million. Being aggrieved an appeal was filed with Commissioner Inland Revenue (Appeals) on 03 December 2015 who upheld the said order and subsequently another appeal has been filed with Appellate Tribunal Inland Revenue on 05 April 2016, which is pending for adjudication.
- (v) The Inland Revenue Audit Officer (IRAO) made an assessment under sections 124, 162(1) and 205 of the Ordinance vide no. 10/62 dated 24 June 2015 for Tax Year 2010, 2011 and 2012 wherein he raised demand amounting to Rupees 52.906 million treating service fee for the collection of Pakistan Television (PTV) license fees as commission rather than as service fee. In this regard, an appeal has been filed before the Learned Commissioner Inland Revenue (Appeals) (CIR(A)) on 11 August 2015 which is decided in favor of the Company vide orders dated 29 March 2016 and case was remanded back to the concerned IRAO / Assistant Commissioner Inland Revenue (ACIR) with direction to recalculate the service fee according to the agreement between WAPDA and PTV. Against the order of CIR(A), Regional Tax Office, Multan has filed appeal before Appellate Tribunal Inland Revenue. The said appeal is pending for adjudication.
- (vi) Additional Commissioner Inland Revenue passed the order for tax year 2015 that the Company was liable to pay Rupees 893 million being higher of minimum tax under section 113 and 113 (C) of the Ordinance. The assessment already finalized under section 120(1) of the Ordinance, therefore, being erroneous in so far as prejudicial to the interest of revenue, is amended under section 122 of the Ordinance. Being aggrieved from the impugned order, the Company filed appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) and same was upheld by the learned CIR(A). Appeals against the orders of CIR(A) has been filed with the Appellate Tribunal Inland Revenue on 17 January 2017, which are pending for adjudication.

- (vii) Assistant Commissioner Inland Revenue passed the order under section 122(1) of the Ordinance vide 14/39 dated 22 June 2017 for the tax year 2011 that the Company was liable to pay Rupees 226 million due to violation of certain provisions of Ordinance. Being aggrieved from the impugned order, the Company filed appeal before the Commissioner Inland Revenue (Appeals) on 07 July 2017 which is pending for adjudication.
- (viii) Assistant Commissioner Inland Revenue started proceedings for amendment of assessment under section 122 of the Ordinance on 17 January 2018. By ignoring all submissions, the ACIR issued an order vide bar code no. 100000032291023 dated 13 April 2018 raising a demand of Rupees 1,294 million. Being aggrieved, the Company filed appeal before Commissioner Inland Revenue (Appeals) (CIR (A)) on 11 May 2018. The matter is pending for adjudication before CIR (A).
- (ix) Assistant Commissioner Inland Revenue issued an order vide bar code no. 100000026203200 dated 09 November 2017 under section 161 of the Ordinance and raised a demand of Rupees 191 million along with default surcharge of Rupees 13 million on the grounds that the Company failed to deduct income tax while making payment to certain parties. Being aggrieved with the orders the Company has filed an appeal before Commissioner Inland Revenue (Appeals) on 13 December 2017, the proceeding of which is pending.
- (x) The Inland Revenue Audit Officer (IRAO) started proceedings under sections 161 and 205 of the Ordinance regarding discharging of liability to deduct income tax on different heads of account. By ignoring all submissions the Learned IRAO issued an order vide no. 10/47 dated 21 October 2013 and raised a demand of Rupees 718 million along with default surcharge of Rupees 161 million. Being aggrieved, the Company filed appeal before Commissioner Inland Revenue (Appeals) (CIR (A)) on 19 November 2013. The Learned CIR (A) issued an order dated 24 February 2014 and confirmed the demand of Rupees 379 million. A second appeal was filed before Appellate Tribunal Inland Revenue on 11 June 2014 who upheld the orders of CIR (A). Being aggrieved with both forums a writ petition vide tax reference no. 27 of 2014 was filed before Honorable Lahore High Court, Lahore who decided the case on 02 July 2016 in favor of the Company and deleted the demand of Rupees 301 million. To give effect to the judgment to decision of Honorable Lahore High Court, Lahore the Assistant Commissioner Inland Revenue issued appeal effect order and raised a demand of Rupees 78 million along with default surcharge of Rupees 66 million. Being aggrieved, further appeal was filed before CIR (A) on 15 December 2017 which is pending for adjudication.
- (xi) Assistant Commissioner Inland Revenue issued an order under section 161 of the Ordinance vide bar code no. 100000028613889 dated 04 January 2018 on the grounds that income tax was not deducted by the Company while making payment to certain parties during the tax years 2012 to 2015 and raised a demand of default surcharge of Rupees 277 million. Being aggrieved by the orders, an appeal was filed before Commissioner Inland Revenue (Appeals) (CIR (A)) on 01 February 2018. The Learned CIR (A) decided the case vide orders dated 24 April 2018 in favor of the Company by accepting the two contentions out of four. A second appeal was filed before Appealate Tribunal Inland Revenue for two contentions rejected by the Learned CIR (A), the proceedings of which are pending.
- (xii) Assistant Commissioner Inland Revenue (ACIR) started proceedings through show cause notice no. 826798-1 date 17 May 2018 under section 161 regarding advance tax collection of the differential amount of sales tax for tax year 2011. Subsequently, ACIR issued order no. 2/30 date 28 August 2018 and raised demand of income tax amounting to Rupees 307 million and default surcharge amounting to Rupees 363.668 million. Being aggrieved by the order, an appeal was filed before Commissioner Inland Revenue (Appeals) (CIR (A)) on 25 September 2018 which is pending for adjudication.
- (xiii) Assistant Commissioner Inland Revenue (ACIR) initiated proceedings through show cause notice vide document no. 100000033710411 dated 13 June 2018 under section 161 regarding advance tax collection of the differential amount of sales tax for tax year 2017. Subsequently, ACIR issued order no. 1/30 dated 27 August 2018 and raised demand of income tax amounting to Rupees 293 million and default surcharge amounting to Rupees 40.687 million. Being aggrieved by the order, an appeal was filed before Commissioner Inland Revenue (Appeals) (CIR (A)) on 26 August 2018 and same was upheld by the learned CIR(A). A second appeal was filed before Appellate Tribunal Inland Revenue which is pending for adjudication.
- (xiv) Assistant Commissioner Inland Revenue initiated proceedings through notice bearing bar code no. 100000034664302 dated 02 July 2018 under section 161 questioning the compliance of income tax withholding on payment to CPPA on account to use of system charges during tax year 2017. By disregarding the reply submitted, ACIR issued order no. 4/30 dated 09 September 2018 and raised demand of income tax amounting to Rupees 293 million and default surcharge amounting to Rupees 42.7 million. Being aggrieved by the order, an appeal was filed before learned Commissioner Inland Revenue (Appeals) (CIR (A)) on 26 August 2018 and same was upheld by the learned CIR(A). A second appeal was filed before Appellate Tribunal Inland Revenue and the proceedings are still pending.

Aggregate provision of Rupees 6,222.53 million regarding the cases stated in paragraph numbers 12.1.4(i) to 12.1.4(xiv) has not been accounted for in the books of account of the Company as in the opinion of tax advisor, the favorable outcome of these cases is expected.

### Sales Tax:

- (xv) The Deputy Commissioner Inland Revenue (DCIR) has passed an order against the Company dated 19 November 2012 by treating the "Subsidy" aggregating to Rupees 24,739.75 million during the period from July 2010 to June 2011 as taxable supplies under the Sales Tax Act, 1990 (the Act) and also taxed unexplained differences amounting to Rupees 925.29 million and raised a demand of Rupees 4,363.05 million. Being aggrieved by the order, the Company filed an appeal before the Commissioner Inland Revenue (Appeals) who upheld the order of DCIR, afterwards second appeal was filed before the Appellate Tribunal Inland Revenue (ATIR) and vide its order number STA 247/LB/2013 dated 19 December 2014 the point of unexplained income was remanded back to DCIR and matter of subsidy was upheld against which the Company filed a writ petition before Honorable Lahore High Court, Lahore on 25 May 2018 who remanded back the case to the full bench of ATIR to decide the case which is still pending for adjudication.
- (xvi) The Deputy Commissioner Inland Revenue (DCIR) passed the order vide no. 21/2016 dated 02 May 2016 thereby alleging that the Company has paid less amount of sales tax withheld of Rupees 691.82 million for tax periods July 2014, August 2014, January 2015 and April 2015 in violation of sections 3(1)(A) of the Act. Against the said order of DCIR, the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) who upheld the orders of DCIR. Afterwards, second appeal was filed before the Appellate Tribunal Inland Revenue who remanded back the case to DCIR vide order dated 18 April 2018. Later Assistant Commissioner Inland Revenue issued an order on 05 May 2019 by ignoring the contentions and submissions of the Company. Being aggrieved by the order, an appeal has been filled with CIR (A) which is pending for adjudication.
- (xvii) The Deputy Commissioner Inland Revenue (DCIR) has passed the order vide no. 20/2016 dated 02 May 2016 alleging that the Company has not charged and paid sales tax on supplies to retailers amounting Rupees 22.27 million during the tax periods of July 2014 and August 2014 and has directed the Company to deposit the same along with default surcharge and penalty of Rupees 1.11 million. The Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) who upheld the orders of DCIR on 27 March 2016. Being aggrieved, the Company has filed an appeal before Appellate Tribunal Inland Revenue who remanded back the case to DCIR vide order dated 18 April 2018. Later Assistant Commissioner Inland Revenue issued an order on 30 April 2019 by ignoring the the contentions and submissions of the Company. Being aggrieved by the order, appeal has been filled before CIR (A), which is pending for adjudication.
- (xviii) The Deputy Commissioner Inland Revenue (DCIR) has passed the order vide no. 09/2016 dated 15 April 2016 alleging that the Company has not charged and paid sales tax amounting to Rupees 23 million from retailers during the month of October 2015 and has directed it to deposit the same along with default surcharge and penalty of Rupees 1.160 million. Against the orders of DCIR an appeal has been filed before the Commissioner Inland Revenue (Appeals) (CIR(A)) and CIR(A) has confirmed the orders of DCIR. Being aggrieved, the Company has filed an appeal before Appellate Tribunal Inland Revenue on 02 June 2018 which is pending for adjudication.
- (xix) The Deputy Commissioner Inland Revenue (DCIR) has passed an order against the Company dated 31 March 2014 on the grounds that the Company has less paid further tax amounting to Rupees 36.8 million and extra tax of Rupees 23.5 million for the tax period from July 2013 to October 2013. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) who upheld the order of DCIR vide order dated 02 May 2015. Afterwards, a second appeal was filed before Appellate Tribunal Inland Revenue on 06 June 2015 for which decision is awaited.
- (xx) The Deputy Commissioner Inland Revenue (DCIR) has passed an order vide no. 19/2016 dated 05 February 2016 on the grounds that the Company has supplied electricity to unregistered persons during the period final July 2014 to June 2015 without payment of sales tax amounting to Rupees 476 million, leviable thereon. Being aggrieved the Company has filed an appeal on 11 November 2016 before the Commissioner Inland Revenue (Appeals) who upheld the order of DCIR. Afterwards, a second appeal was filed before Appellate Tribunal Inland Revenue (ATIR). ATIR decided the case in favor of the Company vide order dated 18 April 2018 and remanded back the proceedings to the Learned DCIR / Assistant Commissioner Inland Revenue (ACIR). In second round of proceedings, Assistant Commissioner Inland Revenue (ACIR) once again issued order on 30 April 2019 by ignoring the contentions and submissions of the Company. Being aggrieved with the order an appeal has been filed before the Commissioner Inland Revenue (ACIRA) which is pending for adjudication.
- (xxi) The Deputy Commissioner Inland Revenue (DCIR) has passed an order against the Company dated 19 February 2016 on the grounds that the Company has made taxable supplies to three steel melters / rerollers but declared lesser quantity of electricity sold amounting to Rupees 199 million during the period from July 2011 to June 2015. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) who upheld the order of DCIR. Afterwards an appeal was filed before Appellate Tribunal Inland Revenue who remanded back the case to DCIR vide order dated 18 April 2018. In second round of proceedings Assistant Commissioner Inland Revenue (ACIR) once again issued orders on 02 April 2019 by ignoring the contentions and submissions of the Company. Being aggrieved with the order an appeal has been filed by the Company before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is pending for adjudication.
- (xxii) The Deputy Commissioner Inland Revenue (DCIR) has passed the order vide no. Audit unit-01/Corporate Zone/TAMS-0763/2010-11/529 dated 14 December 2016 on the grounds that the Company is required to pay sales tax on various heads amounting to Rupees 10,054 million. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 16 January 2017 who upheld the orders of DCIR. A second appeal was filed before Appellate Tribunal Inland Revenue (ATIR) dated 18 September 2017 which has been decided in favour of the Company and remanded the case to DCIR, where it is pending for adjudication.

- (xxiii) The Deputy Commissioner Inland Revenue (DCIR) has passed the order No. 95/2017 dated 27 April 2017 on the grounds that the Company is required to pay sales tax on various heads amounting to Rupees 17,185.81 million. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 25 May 2017. CIR (A) has decided the case by issuing order on 23 July 2018 in favor of the Company by annulling the orders of DCIR and directed him to provide appropriate opportunity of being heard. Proceedings of the case are pending before DCIR for adjudication.
- (xxiv) The Assistant Commissioner Inland Revenue (ACIR) has passed the order vide no. 84 dated 07 April 2017 and raised a demand of sales tax amounting to Rupees 51.9 million on the grounds that the Company has failed to pay extra tax and further tax on supply of electricity to unregistered persons during the period from July 2015 to June 2016. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 05 May 2017. The Learned CIR(A) has issued an order dated 11 April 2018 in favor of the Company by annulling the case. Now the case is pending before ACIR.
- (XXV) The Assistant Commissioner Inland Revenue (ACIR) has passed the order on 28 August 2017 and raised a demand of sales tax amounting to Rupees 565 million on the grounds that the Company has failed to deduct the sales tax during the tax periods from July 2014 to June 2016. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 06 October 2017. CIR(A) has decided the case in favor of the Company vide its order dated 11 April 2018 by annulling the order of the Learned ACIR. Now the case is pending before ACIR.
- (XXVi) The Assistant Commissioner Inland Revenue (ACIR) vide its show cause notice no. 684 dated 04 December 2017 raised question of withholding of sales tax amounting to Rupees 84 million. On submissions made by the Company, the ACIR accepted the contentions of the Company to the extent of Rupees 65 million and rejected the submission of Rupees 19 million. The ACIR issued an order vide 174/2018 dated 28 February 2018 and raised demand of sales tax amounting to Rupees 19 million along with default surcharge amounting to Rupees 1.9 million. Being aggrieved, the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 30 March 2018. CIR(A) issued an order on 10 August 2018 in favor of the Company and annulled the order of ACIR. Now the case is pending before the Learned ACIR.
- (xxvii) The Additional Commissioner Punjab Revenue Authority has issued an order vide no. ENF-I, Unit-01, WH/112/2016-17 dated 28 November 2016 alleging that the Company has failed to withhold PRA sales tax amounting to Rupees 1,645 million from payments made on account of services acquired by the Company. Being aggrieved with the order, the Company has filed an appeal before the Commissioner (Appeals) Punjab Revenue Authority (C(A)PRA). The C(A)PRA has issued an order vide no. 27/2017 dated 14 November 2017 reducing the tax liability to Rupees 71 million along with penalty of Rupees 3.5 million. Afterwards, the Company has filed second appeal before the Appellate Tribunal Punjab Revenue Authority on 22 December 2017, the decision of which is awaited.
- (xxviii) The Assistant Commissioner Inland Revenue (ACIR) initiated proceedings through notice no. 99 dated 15 August 2018 alleging that the Company has claimed inadmissible input tax amounting to Rupees 2.8 million. By ignoring the reply and supporting documents ACIR issued order against the Company and raised demand of sales tax amounting to Rupees 2.8 million. Being aggrieved with the order of ACIR the Company filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is still pending.
- (xxix) The Assistant Commissioner Inland Revenue (ACIR) initiated proceedings through notice no. 151 dated 04 June 2018 alleging that the Company has claimed inadmissible input tax amounting to Rupees 33 million on purchase of cement. The ACIR issued order dated 17 August 2018 against the Company. Being aggrieved with the order of the ACIR the Company filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is still pending for adjudication.
- (xxx) The Assistant Commissioner Inland Revenue (ACIR) issued notice on 22 November 2018 alleging that the Company has not charged sales tax on electricity supplied to employees for free of cost. The ACIR issued order on 22 March 2019 and raised demand of sales tax amounting to Rupees 1,056.59 million. Being aggrieved with the order of the ACIR the Company filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is pending for adjudication.
- (xxxi) The Assistant Commissioner Inland Revenue (ACIR) issued notice on 22 November 2018 alleging that the Company has not charged sales tax on reconnection fee recovered from consumers. The ACIR issued order dated 20 March 2019 and raised demand of sales tax amounting to Rupees 9.35 million. Being aggrieved, an appeal was filed before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is still pending for adjudication.
- (xxxii) The Assistant Commissioner Inland Revenue (ACIR) issued notice on 22 November 2018 alleging that the Company has not charged sales tax on Tariff Differential Subsidy (TDS). The ACIR issued an order dated 18 March 2019 and raised a demand of sales tax amounting to Rupees 4,516.7 million. Being aggrieved, an appeal was filed before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is still pending for adjudication.
- (xxxiii) The Assistant Commissioner Inland Revenue (ACIR) issued notice dated 02 April 2019 alleging that the Company has filed sales tax returns after due date as prescribed in the Act. Subsequently, after year end the ACIR issued order dated 23 July 2019 against the Company and raised the demand of penalty and default surcharge amounting to Rupees 0.019 million and 5.103 million respectively. Being aggrieved, an appeal against the order has been filed on 23 August 2019, after reporting date before the Commissioner Inland Revenue (Appeals) (CIR(A)) which is still pending for adjudication.
  - Aggregate provision of Rupees 39,413.382 million relating to the above stated paragraph numbers 12.1.4(xv) to 12.1.4(xxiii) has not been recorded in the books of account of the Company on the advice of tax advisor of the Company.

# 12.2 Commitments

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Letters of credit for capital expenditure and other than capital expenditure are of Rupees 1,153.065 million (2018: Rupees 1,809.499 million). Keeping in view the nature of Company's business, segregation of capital expenditure and other than capital expenditure is not possible at this stage.

| 13. PROPERTY, PLANT AND EQUIPMENT                                | 50,296<br>6,931 |
|------------------------------------------------------------------|-----------------|
|                                                                  | 50,296<br>6,931 |
| Capital work-in-progress (Note 13.1) 10,899,402,994 11,161,66    | 6,931           |
| Operating fixed assets (Note 13.2)   97,990,414,860   88,866,670 |                 |
| 108,889,817,854 100,028,33                                       | 37,227          |
| 13.1 Capital work-in-progress                                    |                 |
| Civil works 209,407,849 314,61                                   | 13,184          |
| Distribution equipment (Note 13.1.2) 10,689,995,145 10,847,04    | 7,112           |
| 10,899,402,994 11,161,66                                         | 0,296           |
| 13.1.1 Movement in capital work-in-progress                      |                 |
| Balance at 01 July 11,161,660,296 8,779,33                       | 37,950          |
| Add: Additions during the year                                   | 10,969          |
| 19,/24,121,1/6 19,169,9/                                         | 8,919           |
| Transferred to operating fixed assets 8,795,912,542 7,974,91     | 10,555          |
| Impairment charged during the year (Note 26) 28,805,640 33,40    | 8,068           |
| 8,824,718,182 8,008,31                                           | 18,623          |
| Balance as at 30 June 10,899,402,994 11,161,66                   | 50,296          |

**13.1.2** These include borrowing cost of Rupees 144.401 million (2018: Rupees 308.392 million) incurred specifically to finance the construction of distribution equipment. The capitalization rate used was 15.557 (2018: 15.557) percent per annum.

**13.1.3** Depreciation capitalized related to capital work-in-progress was Rupees 5.581 million (2018: Rupees 5.200 million). Moreover operating expenses of Rupees 412.367 million (2018: Rupees 341.834 million) have also been included in capital work-in-progress.

#### 13.2 OPERATING FIXED ASSETS

|                                       | Land -Freehold | Land -Leasehold                        | Buildings on<br>freehold land | Office<br>equipment | Distribution<br>equipment | Other plant and<br>equipment          | Vehicles             | Total                |
|---------------------------------------|----------------|----------------------------------------|-------------------------------|---------------------|---------------------------|---------------------------------------|----------------------|----------------------|
|                                       |                |                                        |                               | (RUPEE              | S)                        |                                       |                      |                      |
| At 30 June 2017 - restated            |                |                                        |                               |                     |                           |                                       |                      |                      |
| Cost                                  | 353,603,002    | 2,277,338                              | 3,712,400,180                 | 559,943,313         | 113,607,212,001           | 431,605,463                           | 984,566,955          | 119,651,608,252      |
| Accumulated depreciation              |                | (790,164)                              | (908,204,302)                 | (224,230,792)       | (35,196,464,336)          | (284,308,673)                         | <u>(728,244,459)</u> | (37,342,242,726)     |
| Net book value                        | 353,603,002    | 1,487,174                              | 2,804,195,878                 | 335,712,521         | 78,410,747,665            | 147,296,790                           | 256,322,496          | 82,309,365,526       |
| Year ended 30 June 2018 - restated    |                |                                        |                               |                     |                           |                                       |                      |                      |
| Opening net book value                | 353,603,002    | 1,487,174                              | 2,804,195,878                 | 335,712,521         | 78,410,747,665            | 147,296,790                           | 256,322,496          | 82,309,365,526       |
| Additions                             | 5,076,000      | -                                      | 323,780,350                   | 5,760,068           | 10,373,901,871            | 78,345,210                            | 34,742,786           | 10,821,606,285       |
| Cost                                  | []             | []                                     | []                            | ]                   |                           | r                                     | (245.626)            |                      |
| Accumulated depreciation              |                |                                        |                               |                     |                           | -                                     | (215,625)            | (215,625)            |
| Accumulated acpreciation              | لn             | L                                      | الىا                          |                     | <u>د</u>                  | ـــــــــــــــــــــــــــــــــــــ | 215,025              | 215,625              |
| Depreciation charge                   | •              | -                                      | (75,779,430)                  | (46,422,837)        | (4,069,177,392)           | (27,393,702)                          | -<br>(45,521,519)    | -<br>(4,264,294,880) |
| Closing net book value                | 358,679,002    | 1,487,174                              | 3,052,196,798                 | 295,049,752         | 84,715,472,144            | 198,248,298                           | 245,543,763          | 88 866 676 931       |
| At 20 June 2018 restated              |                | <u></u>                                |                               |                     |                           |                                       |                      | 001000101010101      |
| Cost                                  | 259 670 002    | סכר רדר ר                              | 4 026 180 520                 | 565 707 791         | 172 001 112 073           | E00 0E0 (77                           | 1 010 004 446        |                      |
| Accumulated depreciation              | 530,079,002    | (700 164)                              | 4,030,100,330                 | (270 653 620)       | (30 765 641 778)          | 203,320,073                           | 1,019,094,116        | 130,472,998,912      |
| Net book value                        | 358 679 002    | 1.487.174                              | 3.052.196.798                 | 295.049.752         | 84 715 472 144            | 198 248 298                           | 245 542 762          | (41,606,321,981)     |
|                                       |                |                                        |                               |                     | 01/15/172/111             | 190,240,290                           | 243,343,703          | 00,000,070,931       |
| Year ended 30 June 2019               | •              |                                        |                               |                     |                           |                                       |                      |                      |
| Opening net book value                | 358,679,002    | 1,487,174                              | 3,052,196,798                 | 295,049,752         | 84,715,472,144            | 198,248,298                           | 245,543,763          | 88,866,676,931       |
| Additions                             | 37,177,432     | -                                      | 300,673,209                   | 51,866,521          | 13,077,759,651            | 351,470,595                           | 3,496,100            | 13,822,443,508       |
| Depreciation charge                   | -              | -                                      | (82,265,161)                  | (46,946,611)        | (4,485,036,782)           | (39,520,936)                          | (44,936,089)         | (4,698,705,579)      |
| Closing net book value                | 395,856,434    | 1,487,174                              | 3,270,604,846                 | 299,969,662         | 93,308,195,013            | 510,197,957                           | 204,103,774          | 97,990,414,860       |
| At 30 June 2010                       |                |                                        |                               |                     |                           |                                       |                      |                      |
| Cost                                  | 305 856 434    | 855 777 5                              | 4 336 853 730                 | 617 569 902         | 137 058 873 533           | 961 401 769                           | 1 033 500 316        | 144 205 442 420      |
| Accumulated depreciation              | -              | (790,164)                              | (1.066.248.893)               | (317.600.240)       | (43 750 678 510)          | 001,421,208<br>(351 223 311)          | 1,022,390,215        | 144,295,442,420      |
| Net book value                        | 395,856,434    | 1.487.174                              | 3.270.604.846                 | 299.969.662         | 93 308 195 013            | 510 197 957                           | 204 103 774          | (40,305,027,560)     |
| · · · · · · · · · · · · · · · · · · · |                | ************************************** |                               | <u></u>             |                           | 520,197,997                           | 207,103,774          | 21,220,414,860       |
| Annual rate of depreciation (%)       | -              | -                                      | 2                             | ·10                 | 3.5                       | 10                                    | 10                   |                      |

13.2.1 The property and rights in the above assets were transferred to the Company on 01 July 1998 by WAPDA in accordance with the terms and conditions of the Business Transfer Agreement (BTA) executed between WAPDA and the Company.

13.2.2 Funiture and fixture have been included in other plant and equipment and computers have been clubbed in office equipment.

13.2.3 Title of some of freehold land has not been transferred with the name of Company. Book value of such freehold land is not available separately.

13.2.4 On 01 March 2019, the Company entered into an Authorization and Interest agreement with Power Holding (Private) Limited (PHPL) and Meezan Bank Limited (MBL), in which Company authorized PHPL to carry out "Certain Actions" in relation to Relevant Transaction Assets representing freehold land at Bahawalpur, Khanpur, Dera Ghazi Khan, Jampur, Bahawalnagar, Multan, Tounsa Shareef, Arifwala and Sahiwal having combined area of 1181 kanal and 14 marla amounting to Rupees 256,940,077. Certain Actions include selling the Relevant Transaction Assets to MBL and creating a security interest over the same for the purpose of enabling PHPL to raise financing through the Sukuk issue. In addition to this agreement, PHPL entered into an Asset Purchase Agreement with MBL for selling the Relevant Transaction Assets to MBL which include the land of the Company and of other distribution and generation companies for a total purchase price of Rupees 200,000 million against which Sukuk certificates will be issued by PHPL for a period of ten years.

**13.2.5** The cost and accumulated depreciation of office equipment, distribution equipment and vehicles have been restated along with intangible asset as given in Note 14, based on the capitalization of USAID grant received during the financial years from 2013 to 2016. This prior period error has been corrected retrospectively in these financial statements in accordance with IAS 8. Consequently as at 30 June 2017, book value of operating fixed assets, intangible asset and deferred credit have been increased by Rupees 1,123,185,541, Rupees 44,692,482 and Rupees 1,167,878,023 respectively. Moreover as at 30 June 2018, the book value of operating fixed assets, intangible asset and deferred credit have been increased by Rupees 1,055,474,127, Rupees 27,397,086 and Rupees 1,082,871,213 respectively. However there was no impact on the loss after taxation for the year ended 30 June 2018.



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|               | 133  | Depreciation charge for the year has hear allocated as fallows                                                                                                                                                                                                                                                                                                                                    | 2019<br>RUPEES                                                                                                    | 2018<br>RUPEES                                                                            |
|---------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|               | 2010 | Depreciation charge for the year has been anotated as follows.                                                                                                                                                                                                                                                                                                                                    |                                                                                                                   |                                                                                           |
| ·             |      | Operating cost<br>Capital work-in-progress (Note 13.1.3)                                                                                                                                                                                                                                                                                                                                          | 4,693,124,291<br>5,581,288                                                                                        | 4,259,094,586<br>5,200,294                                                                |
|               | 14   | TNTANCIDI E ACCET                                                                                                                                                                                                                                                                                                                                                                                 | 4,698,705,579                                                                                                     | 4,264,294,880                                                                             |
|               | 14.  | INTANGIBLE ASSET                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   |                                                                                           |
|               |      | Computer Softwares<br>Net carrying value basis                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                   |                                                                                           |
| '             |      | Balance as at 01 July                                                                                                                                                                                                                                                                                                                                                                             | 27.397.086                                                                                                        | 44,692,482                                                                                |
|               |      | Amortization                                                                                                                                                                                                                                                                                                                                                                                      | (17,295,396)                                                                                                      | (17,295,396)                                                                              |
| 5             |      | Balance as at 30 June                                                                                                                                                                                                                                                                                                                                                                             | 10,101,690                                                                                                        | 27,397,086                                                                                |
|               |      | Gross carrying amount                                                                                                                                                                                                                                                                                                                                                                             | 06 476 004                                                                                                        | 00 470 004                                                                                |
|               |      | Cost<br>Accumulated amortization                                                                                                                                                                                                                                                                                                                                                                  | 86,476,981<br>(76,375,291)                                                                                        | 86,476,981<br>(59,079,895)                                                                |
| C             | )    | Net book value                                                                                                                                                                                                                                                                                                                                                                                    | 10,101,690                                                                                                        | 27,397,086                                                                                |
| , <del></del> |      | Amortization rate (per annum)                                                                                                                                                                                                                                                                                                                                                                     | 20%                                                                                                               | 20%                                                                                       |
| ;             | 14.1 | These include SAP software, Dongle Software and Global Positioning System funded by the USAID grant as mentioned in Note 13.2.5.                                                                                                                                                                                                                                                                  | (GPS). Total cost of the                                                                                          | softwares has been                                                                        |
|               | 15.  | LONG TERM LOANS AND ADVANCES                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                   |                                                                                           |
|               |      | Considered good - secured:                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                   |                                                                                           |
|               |      | House building / purchase of plots                                                                                                                                                                                                                                                                                                                                                                | 92,265,426                                                                                                        | 87,153,603                                                                                |
| i.            |      | Vehicles                                                                                                                                                                                                                                                                                                                                                                                          | 26,017,795                                                                                                        | 28,705,819                                                                                |
|               |      |                                                                                                                                                                                                                                                                                                                                                                                                   | 118,283,221                                                                                                       | 115,859,422                                                                               |
| 1<br>1<br>7   |      | Less: Current portion shown under current assets (Note 19)                                                                                                                                                                                                                                                                                                                                        | 37,652,796                                                                                                        | 38,899,612                                                                                |
|               |      |                                                                                                                                                                                                                                                                                                                                                                                                   | 80,630,425                                                                                                        | 76,959,810                                                                                |
| 0             | 15.1 | Loans for house building and purchase of plot are repayable in ten years, a<br>bicycle loans in four years. As per Company's policy, interest is charged e<br>Provident Fund' which is 14.35 percent (2018: 11.70 percent) per annum. T<br>monthly installments and interest is recoverable in lump sum at the time o<br>secured by mortgage of immovable property and hypothecation of vehicles. | car and motor cycle loar<br>equal to the profit rate a<br>The principal amount is r<br>f final settlement of loar | ns in five years and<br>applied on 'General<br>ecoverable in equal<br>ns. These loans are |
| -             | 16.  | LONG TERM DEPOSITS                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                   |                                                                                           |
|               |      | These represent security deposits with utility companies against connections.                                                                                                                                                                                                                                                                                                                     | ,                                                                                                                 | •                                                                                         |
| -             | 17.  | STORES AND SPARE PARTS                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                   |                                                                                           |
|               |      | Stores                                                                                                                                                                                                                                                                                                                                                                                            | 7,644,539,367                                                                                                     | 5,573,694,015                                                                             |
|               |      | Spare parts                                                                                                                                                                                                                                                                                                                                                                                       | 540,936,597                                                                                                       | 281,626,035                                                                               |
| 2             |      | Less: Provision for slow moving and obsolete items of                                                                                                                                                                                                                                                                                                                                             | 8,185,475,964                                                                                                     | 5,855,320,050                                                                             |
|               |      | stores and spare parts (Note 17.1)                                                                                                                                                                                                                                                                                                                                                                | 82,050,115                                                                                                        | 91,734,823                                                                                |
| ,             |      |                                                                                                                                                                                                                                                                                                                                                                                                   | 8,103,425,849                                                                                                     | 5,763,585,227                                                                             |
| •             | 17.1 | Provision for slow moving and obsolete items<br>of stores and spare parts                                                                                                                                                                                                                                                                                                                         |                                                                                                                   |                                                                                           |
|               |      | Balance as at 01 July                                                                                                                                                                                                                                                                                                                                                                             | 91,734,823                                                                                                        | 136,189,441                                                                               |
|               |      | Less: Reversal of provision for slow moving and obsolete items (Note 27)                                                                                                                                                                                                                                                                                                                          | (9,684,708)                                                                                                       | (44,454,618)                                                                              |
|               |      | Balance as at 30 June                                                                                                                                                                                                                                                                                                                                                                             | 82,050,115                                                                                                        | 91,734,823                                                                                |

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| 18.  | TRADE DEBTS                                                                                                                                                 | 2019<br>RUPEES                                              | 2018<br>RUPEES                  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------|
|      | Partially secured:                                                                                                                                          |                                                             |                                 |
|      | Considered good                                                                                                                                             | 39,778,792,497                                              | 43,119,023,256                  |
|      | Less: Allowance for expected credit losses (Note 18.1)                                                                                                      | (10,983,587,907)                                            | (4,073,166,345)                 |
| 18.1 | Allowance for expected credit losses                                                                                                                        | 28,795,204,590                                              | 39,045,856,911                  |
|      |                                                                                                                                                             |                                                             |                                 |
|      | Balance as at 01 July                                                                                                                                       | 4,073,166,345                                               | 3,885,816,914                   |
|      | Add: Expected credit loss allowance for the year (Note 26)                                                                                                  | 6,955,204,725                                               | 190,131,302                     |
|      | l ese                                                                                                                                                       | 11,028,371,070                                              | 4,075,948,216                   |
|      | Trade debts written off against allowance for expected credit losses                                                                                        | 44,783,163                                                  | 2,781,871                       |
|      | Balance as at 30 June                                                                                                                                       | 10,983,587,907                                              | 4,073,166,345                   |
| 18.2 | Trade debts are partially secured to the extent of corresponding consume reporting date are classified into domestic, commercial, agriculture, public light | ers' security deposits. Tra<br>ghts, residential colonies a | ade debts as at the and others. |

18.3 As at 30 June, ageing analysis of these trade debts is as follows:

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|     | Not past due yet                                                                                              | 4,293,695,160       | 11,498,505,828 |
|-----|---------------------------------------------------------------------------------------------------------------|---------------------|----------------|
|     | Due upto 2 months                                                                                             | 2,859,328,926       | 2,991,978,631  |
|     | 2 to 3 months                                                                                                 | 233,942,274         | 127,482,469    |
|     | 3 to 6 months                                                                                                 | 412,429,391         | 193,272,356    |
|     | 6 months to 1 year                                                                                            | 1,649,131,771       | 1,265,411,025  |
|     | 1 year to 3 years                                                                                             | 2,602,765,852       | 1,603,698,789  |
|     | 3 years and above                                                                                             | 2,588,707,385       | 2,520,576,599  |
|     | Balances due from Government                                                                                  | 16,802,787,025      | 13,800,966,506 |
|     | Deferred arrears (1 year to 3 years)                                                                          | 8,336,004,713       | 9,117,131,053  |
|     |                                                                                                               | 39,778,792,497      | 43,119,023,256 |
|     | Less: Allowance for expected credit losses                                                                    | 10,983,587,907      | 4,073,166,345  |
|     |                                                                                                               | 28,795,204,590      | 39,045,856,911 |
| 19. | LOANS AND ADVANCES                                                                                            |                     | (              |
|     | Considered good:                                                                                              |                     |                |
|     | Employees against expenses                                                                                    | 37,316,143          | 47,029,566     |
|     | Advances to suppliers                                                                                         | 274,951,942         | 325,865,876    |
|     | Current portion of long term loans and advances (Note 15)                                                     | 37,652,796          | 38,899,612     |
|     |                                                                                                               | 349,920,881         | 411,795,054    |
| 20. | OTHER RECEIVABLES                                                                                             |                     |                |
|     | Considered good:                                                                                              |                     |                |
|     | Due from associated companies / undertakings (Note 20.1)                                                      | 3,537,293,994       | 3,406,404,327  |
|     | Sales tax receivable from consumers                                                                           | 13,438,739,583      | 10,003,629,860 |
|     | Agriculture subsidy receivable from Government of Punjab                                                      | 150,006,763         | 150,006,763    |
|     | Tariff differential subsidy receivable from Government of Pakistan<br>Duties, charges and taxes (Note 20, 16) | 39,910,496,354<br>- | 44,087,904,736 |
|     | Receivable against damaged items during warranty period                                                       | 38,096,625          | 21,663,260     |
|     | Others                                                                                                        | 90,071,962          | 27,793,590     |
|     |                                                                                                               | 57,164,705,281      | 57,697,402,536 |
|     |                                                                                                               |                     |                |

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|      |                                                           | 2019<br>RUPEES | 2018<br>RUPEES |
|------|-----------------------------------------------------------|----------------|----------------|
| 20.1 | Due from associated companies / undertakings              |                |                |
|      | Jamshoro Power Generation Company Limited (GENCO-I)       | 1,556,133      | 2,808,344      |
|      | Central Power Generation Company Limited (GENCO-II)       | 293,995,215    | 248,945,331    |
|      | Northern Power Generation Company Limited (GENCO-III)     | 976,059,922    | 873,093,196    |
|      | Lakhra Power Generation Company Limited (GENCO-IV)        | 571,003        | 700,441        |
|      | Lahore Electric Supply Company Limited (LESCO)            | 416,582,705    | 447,636,372    |
|      | Quetta Electric Supply Company Limited (QESCO)            | 68,769,763     | 27,020,598     |
|      | Islamabad Electric Supply Company Limited (IESCO)         | 79,450,779     | 71,798,130     |
|      | Peshawar Electric Supply Company Limited (PESCO)          | 454,627,978    | 440,608,265    |
|      | Sukkur Electric Power Company Limited (SEPCO)             | -              | 1,096,785      |
|      | National Transmission and Despatch Company Limited (NTDC) | -              | 208,929,983    |
|      | WAPDA Current Account                                     | 947,323,847    | 819,120,313    |
|      | WAPDA Welfare Fund                                        | 298,356,649    | 261,212,882    |
|      | Power Information Technology Company (Private) Limited    | -              | 3,433,687      |
|      |                                                           | 3,537,293,994  | 3,406,404,327  |
|      |                                                           |                |                |

20.2 The ageing analysis of amounts due from associated companies / undertakings is as follows:

| Upto 6 months      | 391,284,359   | 655.900.006   |
|--------------------|---------------|---------------|
| 6 months to 1 year | 366,504,653   | 575,646,042   |
| 1 year to 3 years  | 501,070,040   | 623,283,528   |
| 3 years and above  | 2,278,434,942 | 1,551,574,751 |
|                    |               |               |
|                    | 3,537,293,994 | 3,406,404,327 |

**20.3** The maximum aggregate amount due from Jamshoro Power Generation Company Limited (GENCO-I) at the end of any month during the year was Rupees 3.22 million (2018: Rupees 2.80 million).

20.4 The maximum aggregate amount due from Central Power Generation Company Limited (GENCO-II) at the end of any month during the year was Rupees 303.74 million (2018: Rupees 248.95 million).

**20.5** The maximum aggregate amount due from Northern Power Generation Company Limited (GENCO-III) at the end of any month during the year was Rupees 993.01 million (2018: Rupees 953.43 million).

**20.6** The maximum aggregate amount due from Lakhra Power Generation Company Limited (GENCO-IV) at the end of any month during the year was Rupees 0.99 million (2018: Rupees 1.41 million).

**20.7** The maximum aggregate amount due from Lahore Electric Supply Company Limited (LESCO) at the end of any month during the year was Rupees 480.11 million (2018: Rupees 480.15 million).

**20.8** The maximum aggregate amount due from Quetta Electric Supply Company Limited (QESCO) at the end of any month during the year was Rupees 68.77 million (2018: Rupees 46.88 million).

**20.9** The maximum aggregate amount due from Islamabad Electric Supply Company Limited (IESCO) at the end of any month during the year was Rupees 102.15 million (2018: Rupees 72.68 million).

**20.10** The maximum aggregate amount due from Peshawar Electric Supply Company Limited (PESCO) at the end of any month during the year was Rupees 528.55 million (2018: Rupees 446.37 million).

**20.11** The maximum aggregate amount due from Sukkur Electric Power Company Limited (SEPCO) at the end of any month during the year was Rupees 2.42 million (2018: Rupees 296.63 million).

**20.12** The maximum aggregate amount due from National Transmission and Despatch Company Limited (NTDC) at the end of any month during the year was Rupees 115.27 million (2018: Rupees 208.93 million).

**20.13** The maximum aggregate amount due from Water and Power Development Authority (WAPDA) current account at the end of any month during the year was Rupees 1,373.43 million (2018: Rupees 2,443.05 million).

**20.14** The maximum aggregate amount due from Water and Power Development Authority (WAPDA) welfare fund at the end of any month during the year was Rupees 298.36 million (2018: Rupees 261.21 million).

**20.15** The maximum aggregate amount due from Power Information Technology Company (Private) Limited (PITC) at the end of any month during the year was Rupees 3.53 million (2018: Rupees 3.43 million).

| 20.16 | Duties, charges and taxes                                                                                                                                                          | 2019<br>RUPEES                                                                                                                                       | 2018<br>RUPEES                                                                                                                                       |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | Receivables not yet realized:                                                                                                                                                      |                                                                                                                                                      |                                                                                                                                                      |
|       | Electricity duty<br>Income tax<br>Other taxes<br>Neelum Jhelum surcharge<br>Debt service surcharge<br>Universal obligation surcharge<br>T.V. license fee<br>Equalization surcharge | 265,120,574<br>321,219,743<br>87,308,477<br>231,922,348<br>906,830,035<br>155,525,181<br>117,366,195<br><u>8,807,433</u><br>2,094,099,986            | 236,031,142<br>371,261,427<br>70,876,507<br>198,461,758<br>745,799,248<br>757,104,822<br>114,189,285<br><u>9,246,029</u><br>2,502,970,218            |
|       | Electricity duty<br>Income tax<br>Other taxes<br>Neelum Jhelum surcharge<br>Debt service surcharge<br>Universal obligation surcharge<br>T.V. license fee<br>Equalization surcharge | (265,120,574)<br>(321,219,743)<br>(87,308,477)<br>(231,922,348)<br>(906,830,035)<br>(155,525,181)<br>(117,366,195)<br>(8,807,433)<br>(2,094,099,986) | (236,031,142)<br>(371,261,427)<br>(70,876,507)<br>(198,461,758)<br>(745,799,248)<br>(757,104,822)<br>(114,189,285)<br>(9,246,029)<br>(2,502,970,218) |

**20.16.1** These represent the amounts billed to the customers on behalf of the respective authorities and are receivable at year end which have been netted off against their respective payables.

# 21. TAX REFUNDS DUE FROM GOVERNMENT

| Income tax                        | 1,868,796,960  | 1,933,953,804  |
|-----------------------------------|----------------|----------------|
| Sales tax                         | 4,810,490,611  | 8,739,910,295  |
| BANK BALANCES                     | 6,679,287,571  | 10,673,864,099 |
| Current accounts                  | 29,123,711     | 162,143,395    |
| Deposit accounts (Note 22.1)      | 1,801,134,333  | 2,292,352,364  |
| Term deposit receipts (Note 22.2) | 8,627,629,754  | 7,766,242,811  |
|                                   | 10,457,887,798 | 10,220,738,570 |

22.1 Rate of profit on deposit accounts ranges from 3.75 percent to 10.25 percent (2018: 3.75 percent to 5.60 percent) per annum.

22.2 These represent term deposit receipts placed with different banks having maturity period of one to three (2018: one to three) months at profit rates ranging from 10.00 percent to 12.50 percent (2018: 4.00 percent to 6.75 percent) per annum.

# 23. SALES OF ELECTRICITY

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| Gross sales     | 193,456,721,670 | 163,767,589,878 |
|-----------------|-----------------|-----------------|
| Less: Sales tax | 28,109,096,311  | 23,795,290,837  |
|                 | 165,347,625,359 | 139,972,299,041 |

# 24. TARIFF DIFFERENTIAL SUBSIDY

This represents the tariff subsidy claimed from the Government of Pakistan as the difference between rates determined by NEPRA and rates charged to the consumers as notified by the Government of Pakistan from time to time.

# 25. COST OF ELECTRICITY

The Company purchased electricity from CPPA and other private power producers. The electricity purchased during the year has been accounted for according to invoices issued by CPPA and adjusted in accordance with monthly fuel price adjustment determined and notified by NEPRA.

|                |                                                                                                                                                                            | 2019<br>RUPEES                                                         | 2018<br>RUPEES                            |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------|
|                | OPERATING EXPENSES EXCLUDING DEPRECIATION                                                                                                                                  |                                                                        |                                           |
|                | Salaries, wages and other benefits                                                                                                                                         | 9,174,535,394                                                          | 8,673,080,416                             |
|                | Staff retirement benefits (Note 6.2)                                                                                                                                       | 8,678,846,893                                                          | 6,550,418,754                             |
| -              | Repair and maintenance                                                                                                                                                     | 1,725,590,787                                                          | 1,298,643,998                             |
|                | Travelling and conveyance                                                                                                                                                  | 985,638,113                                                            | 988,385,414                               |
|                | Electricity bills collection charges                                                                                                                                       | 515,747,868                                                            | 419,970,250                               |
|                | Transportation                                                                                                                                                             | 364,247,145                                                            | 355,414,408                               |
|                | Advertising and publicity                                                                                                                                                  | 49,167,906                                                             | 59,729,495                                |
| 1              | Office supplies and other expenses                                                                                                                                         | 242,123,990                                                            | 164,461,000                               |
|                | Legal and professional                                                                                                                                                     | 33,865,767                                                             | 41,510,404                                |
|                | Auditors' remuneration (Note 26.1)                                                                                                                                         | 1,150,000                                                              | 1,675,000                                 |
|                | Power, light and water                                                                                                                                                     | 91,173,885                                                             | 81,236,575                                |
|                | Computer and outside services                                                                                                                                              | 526,603,244                                                            | 427,712,480                               |
|                | Telephone and postage                                                                                                                                                      | 66,623,126                                                             | 53,875,257                                |
|                | Management fees                                                                                                                                                            | 121,387,617                                                            | 208,916,070                               |
| a              | Kent, rates and taxes                                                                                                                                                      | 23,411,165                                                             | 23,649,593                                |
|                | Insurance                                                                                                                                                                  | 34,272,659                                                             | 32,800,655                                |
| يسمي ا         | Allowance for expected credit losses (Note 18.1)                                                                                                                           | 6,955,204,725                                                          | 190,131,302                               |
|                | Exchange loss                                                                                                                                                              | 1,841,518                                                              | -                                         |
| ÷ (*)          | Other charges (Note 26.2)                                                                                                                                                  | 20,000,040                                                             | 25,400,000                                |
|                | other charges (Note 20.2)                                                                                                                                                  | 37 352 557 075                                                         | 2,011,979,498                             |
|                |                                                                                                                                                                            | 52,552,557,575                                                         | 22,210,350,037                            |
|                | Less: Charged to capital work-in-progress (Note 13.1.3)                                                                                                                    | 412,367,859                                                            | 341,833,798                               |
|                |                                                                                                                                                                            | 31,940,190,116                                                         | 21,875,164,839                            |
| 26.1           | Auditor's remuneration                                                                                                                                                     |                                                                        |                                           |
|                | Audit fee                                                                                                                                                                  | 850,000                                                                | 850,000                                   |
|                | Half yearly review fee                                                                                                                                                     | -                                                                      | 400,000                                   |
| -              | Other certification fee                                                                                                                                                    | 150,000                                                                | 150,000                                   |
|                | Reimbursable expenses                                                                                                                                                      | 150,000                                                                | 275,000                                   |
| 1              |                                                                                                                                                                            | 1,150,000                                                              | 1,675,000                                 |
| 26.2           | These include supplemental charges of Rupees 2,171.19 million (2 which comprise re-allocation of mark-up on late payments impose the basis of average outstanding balance. | 018: Rupees 1,642.39 million) pass<br>ed by Independent Power Producer | ed on the Company,<br>s (IPPs) to CPPA on |
| 27.            | OTHER INCOME                                                                                                                                                               |                                                                        |                                           |
| j              | Income from financial assets                                                                                                                                               |                                                                        |                                           |
| ~              | Profit on deposits with banks                                                                                                                                              | 823,414,653                                                            | 607,618,615                               |
|                | Late payment surcharge                                                                                                                                                     | 2,171,197,235                                                          | 2,086,555,160                             |
|                | Exchange gain                                                                                                                                                              | -                                                                      | 372,413                                   |
|                |                                                                                                                                                                            | 2,994,611,888                                                          | 2,694,546,188                             |
| , <del>-</del> | Income from non-financial assets                                                                                                                                           | ·····                                                                  |                                           |
|                |                                                                                                                                                                            |                                                                        |                                           |

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| T.V. license fee services                                            | 40,675,225    | 32,659,252    |
|----------------------------------------------------------------------|---------------|---------------|
| Meter / service rent                                                 | 70,440,954    | 53,980,377    |
| Miscellaneous service charges                                        | 91,181,175    | 80,546,965    |
| Reconnection fees                                                    | 67,636,839    | 47,011,703    |
| Sale of scrap                                                        | 46,869,963    | 14,696,495    |
| Credit balances written back                                         | 51,222,439    | 141,244,620   |
| Reversal of provision for slow moving and obsolete items (Note 17.1) | 9,684,708     | 44,454,618    |
| Gain on disposal of property, plant and equipment                    | -             | 300,000       |
| Miscellaneous                                                        | 440,599,511   | 316,996,576   |
|                                                                      | 818,310,814   | 731,890,606   |
|                                                                      | 3,812,922,702 | 3,426,436,794 |
| FINANCE COST                                                         |               |               |
| Mark-up on long term financing                                       | 1,336,863,528 | 1,121,515,821 |
| Markup transferred from GoP                                          | 948,697,830   | -             |
| Bank charges and commission                                          | 4,452,579     | 11,502,388    |
|                                                                      | 2,290,013,937 | 1,133,018,209 |
|                                                                      |               |               |

# 29. TAXATION

# 29.1 Current

Provision for current taxation is not made due to available tax losses and brought forward tax credit for non-equity investment in plant and machinery under section 65B of Income Tax Ordinance, 2001. Reconciliation of tax expense and product of accounting profit multiplied by the applicable tax rate is not required in view of accumulated tax losses of the Company.

|      |                                                                                                                                                                                                                                              | 2019<br>RUPEES                                                                                                  | 2018<br>RUPEES                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 29.2 | Deferred                                                                                                                                                                                                                                     |                                                                                                                 |                                                                                                                 |
|      | Deferred income tax effect due to:                                                                                                                                                                                                           |                                                                                                                 |                                                                                                                 |
|      | Accelerated tax depreciation<br>Allowance for expected credit losses<br>Provision for slow moving and obsolete items of stores and spare parts<br>Staff retirement benefits<br>Unused tax losses and credit<br>Net deferred income tax asset | 17,541,708,604<br>(3,185,240,493)<br>(23,794,533)<br>(22,960,871,093)<br>(151,581,851,680)<br>(160,210,049,195) | 15,753,841,168<br>(1,181,218,240)<br>(26,603,099)<br>(20,414,304,739)<br>(118,576,556,901)<br>(124,444,841,811) |
|      | Unrecognized deferred income tax asset (Note 29.3)                                                                                                                                                                                           | 160,210,049,195                                                                                                 | 124,444,841,811                                                                                                 |
|      |                                                                                                                                                                                                                                              |                                                                                                                 |                                                                                                                 |

29.3 Deferred income tax asset has not been recognized in these financial statements due to uncertainty in availability of sufficient future taxable profits as these temporary differences are not likely to reverse in the foreseeable future.

| 30. | LOSS PER SHARE                                                                                                                                                                                                                                                                                                               |                        | 2019                                                                                                                           | 2018                                                                                                                          |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|     | Basic loss per share                                                                                                                                                                                                                                                                                                         |                        |                                                                                                                                |                                                                                                                               |
|     | Loss after taxation                                                                                                                                                                                                                                                                                                          | (Rupees)               | (22,782,328,946)                                                                                                               | (33,824,726,827)                                                                                                              |
|     | Weighted average number of ordinary shares                                                                                                                                                                                                                                                                                   | (Numbers)              | 1 082 363 604                                                                                                                  | 1 082 363 604                                                                                                                 |
|     | Loss per share - Basic                                                                                                                                                                                                                                                                                                       | (Rupees)               | (21.05)                                                                                                                        | (31.25)                                                                                                                       |
|     | Diluted loss per share                                                                                                                                                                                                                                                                                                       |                        |                                                                                                                                |                                                                                                                               |
|     | Loss after taxation                                                                                                                                                                                                                                                                                                          | (Rupees)               | (22,782,328,946)                                                                                                               | (33,824,726,827)                                                                                                              |
|     | Weighted average number of ordinary shares<br>including deposit for shares                                                                                                                                                                                                                                                   | (Numbers)              | 4 216 126 821                                                                                                                  | <u> </u>                                                                                                                      |
| •   | Loss per share - Diluted                                                                                                                                                                                                                                                                                                     | (Rupees)               | (5.40)                                                                                                                         | (8.17)                                                                                                                        |
|     |                                                                                                                                                                                                                                                                                                                              |                        | 2019<br>RUPEES                                                                                                                 | 2018<br>RUPEES                                                                                                                |
| 31. | CASH GENERATED FROM OPERATIONS                                                                                                                                                                                                                                                                                               |                        |                                                                                                                                | -                                                                                                                             |
|     | Loss before taxation                                                                                                                                                                                                                                                                                                         |                        | (22,782,328,946)                                                                                                               | (33,824,726,827)                                                                                                              |
|     | Adjustments for non-cash charges and other                                                                                                                                                                                                                                                                                   | items:                 |                                                                                                                                |                                                                                                                               |
|     | Depreciation<br>Provision for staff retirement benefits<br>Amortization of intangible asset<br>Amortization of deferred credit<br>Allowance for expected credit losses<br>Provision for slow moving and obsolete items of s<br>reversed during the year<br>Impairment of capital work-in-progress<br>Profit on bank deposits | stores and spare parts | 4,693,124,291<br>8,678,846,893<br>17,295,396<br>(2,758,528,394)<br>6,955,204,725<br>(9,684,708)<br>28,805,640<br>(823,414,653) | 4,259,094,586<br>6,550,418,754<br>17,295,396<br>(2,490,165,155)<br>190,131,302<br>(44,454,618)<br>33,408,068<br>(607,618,615) |
|     | Credit balances written back<br>Gain on disposal of property, plant and equipment<br>Finance cost<br>Working capital changes (Note 31.1)                                                                                                                                                                                     |                        | 51,222,439<br>2,290,013,937<br>11,561,248,573<br>7,901,805,194                                                                 | 141,244,620<br>(300,000)<br>1,133,018,209<br>32,723,216,568<br>8,080,562,288                                                  |

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| 31.1 | Working capital changes                                                                                             | 2019<br>RUPEES                                                                 | 2018<br>RUPEES                                                                            |
|------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|      | (Increase) / decrease in current assets                                                                             |                                                                                |                                                                                           |
|      | Stores and spare parts<br>Trade debts<br>Loans and advances<br>Other receivables<br>Tax refunds due from Government | (2,330,155,914)<br>3,295,447,596<br>60,627,357<br>532,697,255<br>3,994,576,528 | (1,778,415,371)<br>(11,690,335,176)<br>(154,705,334)<br>(18,938,904,278)<br>1,235,249,559 |
|      | Increase in trade and other payables                                                                                | 5,553,192,822<br>6,008,055,751<br>11,561,248,573                               | (31,327,110,600)<br>64,050,327,168<br>32,723,216,568                                      |

# 31.2 Reconciliation of movement of liabilities to cash flows arising from financing activities:

|                                                                                                                                                             | Long term<br>financing                     | Long term<br>security deposits    | Receipt against<br>deposit works<br>and deferred<br>credit | Total                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------|
| -                                                                                                                                                           |                                            | RUPEES                            |                                                            |                                                                                  |
| Balance as at 01 July 2018                                                                                                                                  | 13,707,273,169                             | 8,164,534,805                     | 72,669,102,565                                             | 94,540,910,539                                                                   |
| Financing obtained<br>Repayment of financing<br>Security deposits received<br>Receipts against deposit work received-net<br>Amortization of deferred credit | 554,481,341<br>(74,158,360)<br>-<br>-<br>- | -<br>-<br>1,015,307,669<br>-<br>- | -<br>8,007,278,135<br>(2,758,528,394)                      | 554,481,341<br>(74,158,360)<br>1,015,307,669<br>8,007,278,135<br>(2,758,528,394) |
| Balance as at 30 June 2019                                                                                                                                  | 14,187,596,150                             | 9,179,842,474                     | 77,917,852,306                                             | 101,285,290,930                                                                  |

## 32. REMUNERATION OF CHIEF EXECUTIVE OFFICER, DIRECTORS AND EXECUTIVES

Aggregate amount charged in these financial statements in respect of remuneration including all benefits to the Chief Executive Officer and executives of the Company are as follows:

|                   | 2019           | 2018      | 2019        | 2018        |
|-------------------|----------------|-----------|-------------|-------------|
|                   | Chief Executiv | e Officer | Executives  |             |
|                   | RUPEES         | RUPEES    | RUPEES      | RUPEES      |
| Basic pay         | 1,586,760      | 1,586,760 | 80,558,880  | 81,678,828  |
| Allowances        | 2,414,243      | 1,730,631 | 78,638,736  | 65,046,228  |
| Meeting fee       | 980,000        | 1,330,000 | -           | -           |
|                   | 4,981,003      | 4,647,391 | 159,197,616 | 146,725,056 |
| Number of persons | 1              | 1         | 53          | 55          |

32.1 The Chief Executive Officer is provided unfurnished accommodation, free electricity, free use of Company's maintained vehicle and telephone facility as per the Company's rules. Moreover, all executives are provided free electricity and some of the executives are also provided unfurnished accommodation, free use of Company's maintained vehicle and telephone facility as per Company's rules.

**32.2** Aggregate amount charged in the financial statements for meeting fee to 10 (2018: 10) directors was Rupees 4.45 million (2018: Rupees 9.31 million).

**32.3** No remuneration was paid to any Director of the Company.

#### 33. TRANSACTIONS WITH RELATED PARTIES

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Related parties comprise associated companies / undertakings, other related parties and key management personnel. The Company in the normal course of business carries out transactions with various related parties. Detail of transactions with related parties, other than those which have been disclosed elsewhere in these financial statements, are as follows:

|                                                                          | 2019<br>RUPEES  | 2018<br>RUPEES  |
|--------------------------------------------------------------------------|-----------------|-----------------|
| Associated companies / undertakings:                                     |                 |                 |
| Purchase of electricity                                                  | 225,725,413,330 | 192,693,791,151 |
| Free supply of electricity provided to employees of associated companies | 244,230,937     | 171,504,965     |
| Free supply of electricity received by employees of the Company          | 135,700,088     | 27,360,919      |
| Electricity bills of the Company received by associated companies        | 1,248,138       | 921,803         |
| Electricity bills of associated companies received by the Company        | 1,233,493       | 758,193         |
| Pension paid to employees of associated companies                        | 888,608,506     | 754,605,799     |
| Pension received by employees of the Company from associated companies   | 278,587,181     | 193,664,760     |
| Finance cost                                                             | 2,285,561,358   | 1,121,515,821   |

33.1 Detail of compensation to key management personnel comprising of Chief Executive officer, Directors and executives is disclosed in Note 32.

# 33.2 Associated companies / undertakings with whom the Company have transactions during the year:

| Jamshoro Power Generation Company Limited (GENCO-I)           |
|---------------------------------------------------------------|
| Central Power Generation Company Limited (GENCO-II)           |
| Northern Power Generation Company Limited (GENCO-III)         |
| Lakhra Power Generation Company Limited (GENCO-IV)            |
| National Transmission and Despatch Company Limited (NTDC)     |
| Central Power Purchasing Agency (Guarantee) Limited (CPPA)    |
| Lahore Electric Supply Company Limited (LESCO)                |
| Quetta Electric Supply Company Limited (QESCO)                |
| Islamabad Electric Supply Company Limited (IESCO)             |
| Peshawar Electric Supply Company Limited (PESCO)              |
| Hyderabad Electric Supply Company Limited (HESCO)             |
| Sukkur Electric Power Company Limited (SEPCO)                 |
| Faisalabad Electric Supply Company Limited (FESCO)            |
| Gujranwala Electric Power Company Limited (GEPCO)             |
| Water and Power Development Authority (WAPDA)                 |
| Power Information Technology Company (Private) Limited (PITC) |
|                                                               |

33.2.1 The Company and all of the above mentioned companies / undertakings are under common control of GoP with the Ministry of Water and Power.

| 34. | NUMBER OF EMPLOYEES                         | 2019   | 2018   |
|-----|---------------------------------------------|--------|--------|
|     | Number of employees as on 30 June           | 17 108 | 16 963 |
|     | Average number of employees during the year | 17 036 | 16 637 |
|     |                                             |        |        |

### 35. FINANCIAL RISK MANAGEMENT

#### 35.1 Financial risk factors

The Company's activities expose it to a variety of financial risks: market risk (including currency risk, other price risk and interest rate risk), credit risk and liquidity risk. The Company's overall risk management programme focuses on the unpredictability of financial markets and seeks to minimize potential adverse effects on the Company's financial performance.

Risk management is carried out by the Company's Board of Directors. The Board provides principles for overall risk management, as well as policies covering specific areas such as currency risk, other price risk, interest rate risk, credit risk, liquidity risk, investment of excess liquidity and use of non-derivative financial instruments.

#### (a) Market risk

#### (i) Currency risk

Currency risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in foreign exchange rates. Currency risk arises mainly from future commercial transactions or receivables and payables that exist due to transactions in foreign currencies.

The Company is exposed to currency risk arising from currency exposure, primarily with respect to the United States Dollar (USD). Currently, the Company's foreign exchange risk exposure is restricted to the amounts receivable from the foreign entities. The Company's exposure to currency risk was as follows:

|                                                                    | 2019     | 2018     |
|--------------------------------------------------------------------|----------|----------|
| Trade and other payables - USD                                     | (47,646) | (47,646) |
| Loans and advances - USD                                           | -        | 37,904   |
| Net exposure - USD                                                 | (47,646) | (9,742)  |
| Following significant exchange rates were applied during the year: |          |          |
| Rupees per US Dollar                                               |          |          |
| Average rate                                                       | 140.92   | 110.43   |
| Reporting date rate                                                | 160.25   | 121.60   |

#### Sensitivity analysis

If the functional currency, at reporting date, had weakened / strengthened by 5% against the USD with all other variables held constant, the impact on loss after taxation for the year would have been by Rupees 0.382 million (2018: Rupees 0.059 million) higher / lower, mainly as a result of exchange gains / losses on translation of foreign exchange denominated financial instruments. Currency risk sensitivity to foreign exchange movements has been calculated on a symmetric basis. In management's opinion, the sensitivity analysis is unrepresentative of inherent currency risk as the year end exposure does not reflect the exposure during the year.

#### (ii) Other price risk

Other price risk represents the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices (other than those arising from interest rate risk or currency risk), whether those changes are caused by factors specific to the individual financial instrument or its issuer, or factors affecting all similar financial instruments traded in the market. The Company is not exposed to commodity price risk.

#### (iii) Interest rate risk

This represents the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates.

The Company's interest rate risk arises from long term financing, long term advances, bank balances in saving accounts and term deposit receipts. Financial instruments at variable rates expose the Company to cash flow interest rate risk. Financial instruments at fixed rate expose the Company to fair value interest rate risk.

At the reporting date the interest rate profile of the Company's interest bearing financial instruments was:

|                                  | 2019<br>RUPEES | 2018<br>RUPEES |
|----------------------------------|----------------|----------------|
| Fixed rate instruments           |                |                |
| Financial assets                 |                |                |
| Long term advances               | 118,283,221    | 115,859,422    |
| Financial liabilities            |                |                |
| Long term financing              | 14,061,123,790 | 13,506,642,449 |
| Floating rate instruments        |                |                |
| Financial assets                 |                |                |
| Bank balances - deposit accounts | 1,801,134,333  | 2,292,352,364  |
| Term deposit receipts            | 8,627,629,754  | 7,766,242,811  |

#### Fair value sensitivity analysis for fixed rate instruments

The Company does not account for any fixed rate financial assets and liabilities at fair value through profit or loss. Therefore, a change in interest rate at the reporting date would not affect profit or loss of the Company.

#### Cash flow sensitivity analysis for variable rate instruments

If interest rates, at the year end date, fluctuates by 1% higher / lower with all other variables held constant, loss after taxation for the year would have been Rupees 104.288 million (2018: Rupees 100.586 million) lower / higher, mainly as a result of higher / lower interest income on floating rate financial instruments. This analysis is prepared assuming amounts of financial instruments outstanding at reporting date were outstanding for the whole year.

#### (b) Credit risk

Credit risk represents the risk that one party to a financial instrument will cause a financial loss for the other party by failing to discharge an obligation. The carrying amount of financial assets represents the maximum credit exposure. The maximum exposure to credit risk at the reporting date was as follows:

| Trade debts        | 39,778,792,497 | 43,119,023,256 |
|--------------------|----------------|----------------|
| Loans and advances | 118,283,221    | 115,859,422    |
| Acrived interest   | 103,482,195    | 48,504,557     |
| Deposits           | 49,185         | 49,185         |
| Other receivables  | 17,104,202,164 | 13,459,491,037 |
| Bank balances      | 10,457,887,798 | 10,220,738,570 |
|                    | 67,562,697,060 | 66,963,666,027 |

The credit quality of financial assets that are neither past due nor impaired can be assessed by reference to external credit ratings (if available) or to historical information about counterparty default rate:

|                           | Rating     |                                       |       | 2019          | 2018          |
|---------------------------|------------|---------------------------------------|-------|---------------|---------------|
|                           | Short term | Short term Long term                  |       | (RUPEES)      |               |
|                           |            | · · · · · · · · · · · · · · · · · · · |       |               |               |
| Allied Bank Limited       | A1+        | AAA                                   | PACRA | 352,020,528   | 2,752,430,294 |
| I Inited Bank I imited    | A-1+       | AAA                                   | VIS   | 2,213,104,374 | 2,053,672,997 |
| MCB Bank Limited          | A1+        | AAA                                   | PACRA | 720,022,140   | 193,310,467   |
| Habib Bank Limited        | A-1+       | AAA                                   | VIS   | 2,511,508,020 | 208,329,091   |
| National Bank of Pakistan | A-1+       | AAA                                   | VIS   | 745,216,534   | 1,149,084,398 |
| The Back of Bunish        | A1+        | AA                                    | PACRA | 751,546,253   | -             |
| Bank Alfalah Limited      | A1+        | AA+                                   | PACRA | 25,275,807    | 13,237,194    |
|                           |            | Sub totali-                           |       | 7 318 693 656 | 6.370.064.441 |

|                                            | Rating        |           |        | 2019           | 2018           |
|--------------------------------------------|---------------|-----------|--------|----------------|----------------|
|                                            | Short term    | Long term | Agency | (RUP           | EES)           |
| Bank Al-Habib Limited                      | A1 +          |           | 21.001 |                |                |
| Meezan Bank Limited                        | A17<br>A-14   | AA+       | PACRA  | 653,554,864    | 295,420,845    |
| Soperi Bank Limited                        | A-IT          | AA+       | V15    | 503,456,499    | 425,826,120    |
| Ackeri Seek Limited                        | A1+           | AA-       | PACRA  | 864,451,651    | 1,102,628,424  |
| Askari bank Limited                        | A1+           | AA+       | PACRA  | 2,997,560      | 13,991,390     |
| raysal Bank Limited                        | A1+           | AA        | PACRA  | 866,536,574    | 1.579.856.104  |
| Habib Metropolitan Bank Limited            | A1+           | AA+       | PACRA  |                | 108 554 176    |
| Standard Chartered Bank (Pakistan) Limited | A1+           | AAA       | PACRA  | -              | 3 144          |
| Zarai Taraqlati Bank Limited               | A-1+          | AAA       | VIS    | -              | 67 303 250     |
| Summit Bank Limited*                       |               |           | VIS    |                | 1 630 035      |
| JS Bank Limited                            | A1+           | AA-       | PACRA  | 69 689         | 5 074 003      |
| Silk Bank Limited                          | A-2           | A-        | VIS    | -              | 385 561        |
| First Women Bank Limited                   | A2            | A-        | PACRA  | -              | 335 685        |
| AlBaraka Bank (Pakistan) Limited           | A1            | Α         | PACRA  | 2.584.758      | 4,482,136      |
| Dubai Islamic Bank Pakistan Limited        | A-1+          | AA        | VIS    |                | 1.560.317      |
| The Bank of Khyber                         | A1            | Α         | PACRA  |                | 1,563,375      |
| Trust Investment Bank Limited**            |               |           | N/A    | 214.373.418    | 214 373 418    |
| The Punjab Provincial Cooperative          |               |           |        | ,070, 120      | 21,0,0,10      |
| Bank Limited***                            |               |           | N/A    | 31,169,053     | 27,686,146     |
|                                            | Sub total:-   |           |        | 3,139,194,147  | 3 850 674 179  |
|                                            | Grand total:- |           |        | 10,457,887,798 | 10,220,738,570 |

\* VIS has suspended the credit rating of the Bank till availability of updated financial information, as no financial statements have been made available by the Bank after the period ended March 2018.

\*\* PACRA has withdrawn the credit ratings of the Bank since 19 November 2012 on the request of the Bank's management as SECP has not renewed Bank's license to operate investment finance services.

\*\*\* State Bank of Pakistan has exempted the Bank from credit rating requirements till the completion of its restructuring process.

The Company's exposure to credit risk and expected credit losses related to trade debts is disclosed in Note 18.

Due to the Company's long standing business relationships with these counterparties and after giving due consideration to their strong financial standing, management does not expect non-performance by these counterparties on their obligations to the Company. Accordingly the credit risk is minimal.

#### (c) Liquidity risk

Liquidity risk is the risk that an entity will encounter difficulty in meeting obligations associated with financial liabilities. The cash management has not yet been delegated to the Company and WAPDA disburses funds to the Company as and when needed. Following are the contractual maturities of financial liabilities, including interest payments. The amounts disclosed in the table are undiscounted cash flows.

#### Following are the contractual maturities of financial liabilities as at 30 June 2019:

|                               | Carrying amount | Contractual cash<br>flows | 6 months or less | 6-12 months | 1-3 years     | More than 3 years |
|-------------------------------|-----------------|---------------------------|------------------|-------------|---------------|-------------------|
|                               | *******         |                           | (RUI             | PEES)       |               |                   |
| Non-derivative financial liab | oilities:       |                           |                  |             |               |                   |
| Long term financing           | 14,187,596,150  | 34,612,490,593            | 4,665,353,058    | 475,824,418 | 2,766,721,211 | 26,704,591,906    |
| Long term security deposits   | 9,179,842,474   | 9,179,842,474             |                  | -           | -             | 9,179,842,474     |
| Trade and other payables      | 113,843,017,322 | 113,843,017,322           | 113,843,017,322  | -           | -             | -                 |
| Accrued mark-up               | 9,305,254,845   | 9,305,254,845             | 9,305,254,845    | -           | -             | -                 |
|                               | 146.515.710.791 | 166,940,605,234           | 127,813,625,225  | 475.824.418 | 2,765,721,211 | 35,884,434,380    |

#### Following are the contractual maturities of financial liabilities as at 30 June 2018:

|                               | Carrying amount | Contractual cash<br>flows | 6 months or less | Less than 1 year | 1-3 years     | More than 3 years           |
|-------------------------------|-----------------|---------------------------|------------------|------------------|---------------|-----------------------------|
|                               |                 |                           | (RUPEE           | 5)               |               |                             |
| Non-derivative financial liab | ilities:        |                           |                  |                  |               |                             |
| Long term financing           | 13,707,273,169  | 33,405,263,917            | 4,038,587,197    | 446,647,665      | 2,517,163,124 | 26, <del>4</del> 02,765,931 |
| Long term security deposits   | 8,164,534,805   | 8,164,534,805             | -                | -                | •             | 8,164,534,805               |
| Trade and other payables      | 107,572,009,095 | 107,572,009,095           | 107,572,009,095  | -                | •             | •                           |
| Accrued mark-up               | 7,823,989,341   | 7,823,989,341             | 7,197,300,878    | -                | 626,688,463   | -                           |
|                               | 137,267,806,410 | 156,965,797,158           | 118,807,997,170  | 446,647,665      | 3,143,851,587 | 34,567,300,736              |

The contractual cash flows relating to the above financial liabilities have been determined on the basis of mark-up rates effective as at 30 June. The rates of mark-up have been disclosed in Note 5 to these financial statements.

#### (d) Capital risk management

The objective of the Company when managing capital is to safeguard its ability to continue as a going concern. The Company is not exposed to any external capital requirement. As public interest entity, financial support is available to the Company from Federal Government and WAPDA in the form of delayed settlement of CPPA against electricity purchase, tariff revision and subsidy on purchases.

...

## 35.2 Financial instruments by categories

| As at 30 June   At amortized cost   Loans and receivables     Assets as per statement of financial position   39,778,792,497   43,119,023,256     Loans and advances   318,283,221   115,859,422     Accrued interest   103,482,195   48,504,557     Deposits   49,185   49,185     Other receivables   10,457,887,798   10,220,738,570     Bank balances   66,963,666,027   66,963,666,027     Liabilities as per statement of financial position   67,562,697,060   66,963,666,027     Long term financing   14,187,596,150   13,707,273,169     Long term security deposits   9,179,842,474   8,164,534,805     Trade and other payables   113,843,017,322   107,572,009,095     Accrued mark-up   9,305,254,845   7,823,989,341 |                                                    | 2019<br>RUPEES    | 2018<br>RUPEES        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------|-----------------------|
| As at 30 June   Assets as per statement of financial position   Trade debts 39,778,792,497 43,119,023,256   Loans and advances 118,283,221 115,859,422   Accrued interest 103,482,195 48,504,557   Deposits 49,185 49,185   Other receivables 17,104,202,164 13,459,491,037   Bank balances 10,457,887,798 10,220,738,570    67,562,697,060 66,963,666,027    At amortized cost 14,187,596,150 13,707,273,169   Long term financing 14,187,596,150 13,707,273,169 10,7572,009,095   Long term security deposits 9,179,842,474 8,164,534,805 113,843,017,322 107,572,009,095   Accrued mark-up 9,305,254,845 7,823,989,341 146,515,710,791 137,267,806,410                                                                           |                                                    | At amortized cost | Loans and receivables |
| Trade debts 39,778,792,497 43,119,023,256   Loans and advances 118,283,221 115,859,422   Accrued interest 103,482,195 48,504,557   Deposits 49,185 49,185   Other receivables 17,104,202,164 13,459,491,037   Bank balances 10,457,887,798 10,220,738,570 <b>At amortized cost</b> Liabilities as per statement of financial position   Long term financing 14,187,596,150 13,707,273,169   Long term security deposits 9,179,842,474 8,164,534,805   Trade and other payables 113,843,017,322 107,572,009,095   Accrued mark-up 9,305,254,845 7,823,989,341                                                                                                                                                                        | As at 30 June                                      |                   |                       |
| Trade debts 39,778,792,497 43,119,023,256   Loans and advances 118,283,221 115,859,422   Accrued interest 103,482,195 48,504,557   Deposits 49,185 49,185   Other receivables 17,104,202,164 13,459,491,037   Bank balances 10,457,887,798 10,220,738,570   Comparison   Liabilities as per statement of financial position   Long term financing 14,187,596,150 13,707,273,169   Long term security deposits 9,179,842,474 8,164,534,805   Trade and other payables 113,843,017,322 107,572,009,095   Accrued mark-up 9,305,254,845 7,823,989,341                                                                                                                                                                                  | Assets as per statement of financial position      |                   |                       |
| Loans and advances 118,283,221 115,859,422   Accrued interest 103,482,195 48,504,557   Deposits 49,185 49,185   Other receivables 17,104,202,164 13,459,491,037   Bank balances 10,457,887,798 10,220,738,570 <b>At amortized cost</b> Liabilities as per statement of financial position   Long term financing 14,187,596,150 13,707,273,169   Long term security deposits 9,179,842,474 8,164,534,805   Trade and other payables 113,843,017,322 107,572,009,095   Accrued mark-up 9,305,254,845 7,823,989,341   146,515,710,791 137,267,806,410                                                                                                                                                                                  | Irade debts                                        | 39,778,792,497    | 43,119,023,256        |
| Accrued interest 103,482,195 48,504,557   Deposits 49,185 49,185   Other receivables 17,104,202,164 13,459,491,037   Bank balances 10,457,887,798 10,220,738,570 <b>At amortized cost</b> Liabilities as per statement of financial position   Long term financing 14,187,596,150 13,707,273,169   Long term security deposits 9,179,842,474 8,164,534,805   Trade and other payables 113,843,017,322 107,572,009,095   Accrued mark-up 9,305,254,845 7,823,989,341   146,515,710,791                                                                                                                                                                                                                                               | Loans and advances                                 | 118,283,221       | 115,859,422           |
| Deposits   49,185   49,185   49,185     Other receivables   17,104,202,164   13,459,491,037     Bank balances   10,457,887,798   10,220,738,570     Control of financial position     Liabilities as per statement of financial position     Long term financing   14,187,596,150   13,707,273,169     Long term security deposits   9,179,842,474   8,164,534,805     Trade and other payables   113,843,017,322   107,572,009,095     Accrued mark-up   9,305,254,845   7,823,989,341     146,515,710,791                                                                                                                                                                                                                         | Accrued interest                                   | 103,482,195       | 48,504,557            |
| Other receivables 17,104,202,164 13,459,491,037   Bank balances 10,457,887,798 10,220,738,570   67,562,697,060 66,963,666,027   At amortized cost   Liabilities as per statement of financial position   Long term financing 14,187,596,150 13,707,273,169   Long term security deposits 9,179,842,474 8,164,534,805   Trade and other payables 113,843,017,322 107,572,009,095   Accrued mark-up 9,305,254,845 7,823,989,341   146,515,710,791                                                                                                                                                                                                                                                                                     | Deposits                                           | 49,185            | 49,185                |
| Bank balances 10,457,887,798 10,220,738,570   IO,457,887,798 10,220,738,570   G7,562,697,060 66,963,666,027   At amortized cost   Liabilities as per statement of financial position   Long term financing 14,187,596,150 13,707,273,169   Long term security deposits 9,179,842,474 8,164,534,805   Trade and other payables 113,843,017,322 107,572,009,095   Accrued mark-up 9,305,254,845 7,823,989,341   146,515,710,791                                                                                                                                                                                                                                                                                                       | Other receivables                                  | 17,104,202,164    | 13,459,491,037        |
| Example   67,562,697,060   66,963,666,027     At amortized cost   At amortized cost     Long term financing   14,187,596,150   13,707,273,169     Long term security deposits   9,179,842,474   8,164,534,805     Trade and other payables   113,843,017,322   107,572,009,095     Accrued mark-up   9,305,254,845   7,823,989,341     146,515,710,791   137,267,806,410                                                                                                                                                                                                                                                                                                                                                            | Bank balances                                      | 10,457,887,798    | 10,220,738,570        |
| Liabilities as per statement of financial position   At amortized cost     Long term financing   14,187,596,150   13,707,273,169     Long term security deposits   9,179,842,474   8,164,534,805     Trade and other payables   113,843,017,322   107,572,009,095     Accrued mark-up   9,305,254,845   7,823,989,341     146,515,710,791   137,267,806,410                                                                                                                                                                                                                                                                                                                                                                         |                                                    | 67,562,697,060    | 66,963,666,027        |
| Liabilities as per statement of financial position   14,187,596,150   13,707,273,169     Long term financing   14,187,596,150   13,707,273,169     Long term security deposits   9,179,842,474   8,164,534,805     Trade and other payables   113,843,017,322   107,572,009,095     Accrued mark-up   9,305,254,845   7,823,989,341     146,515,710,791   137,267,806,410                                                                                                                                                                                                                                                                                                                                                           |                                                    | At amorti         | zed cost              |
| Long term financing   14,187,596,150   13,707,273,169     Long term security deposits   9,179,842,474   8,164,534,805     Trade and other payables   113,843,017,322   107,572,009,095     Accrued mark-up   9,305,254,845   7,823,989,341     146,515,710,791   137,267,806,410                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Liabilities as per statement of financial position |                   |                       |
| Long term security deposits   9,179,842,474   8,164,534,805     Trade and other payables   113,843,017,322   107,572,009,095     Accrued mark-up   9,305,254,845   7,823,989,341     146,515,710,791   137,267,806,410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Long term financing                                | 14,187,596,150    | 13,707,273,169        |
| Trade and other payables 113,843,017,322 107,572,009,095   Accrued mark-up 9,305,254,845 7,823,989,341   146,515,710,791 137,267,806,410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Long term security deposits                        | 9,179,842,474     | 8.164.534.805         |
| Accrued mark-up 9,305,254,845 7,823,989,341                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Trade and other payables                           | 113.843.017.322   | 107,572,009,095       |
| 146,515,710,791 137,267,806,410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Accrued mark-up                                    | 9,305,254,845     | 7,823,989,341         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    | 146,515,710,791   | 137,267,806,410       |

# 35.3 Offsetting financial assets and financial liabilities

As on the reporting date, recognized financial instruments are not subject to offsetting as there are no enforceable master netting arrangements and similar agreements.

#### 36. RECOGNIZED FAIR VALUE MEASUREMENTS

#### Fair value hierarchy

Certain financial assets and financial liabilities are not measured at fair value if the carrying amounts are a reasonable approximation of fair value. Due to short term nature, carrying amounts of certain financial assets and financial liabilities are considered to be the same as their fair value. For the majority of the non-current receivables, the fair values are also not significantly different to their carrying amounts. Judgments and estimates are made in determining the fair values of the financial instruments that are recognized and measured at fair value in these financial statements. To provide an indication about the reliability of the inputs used in determining fair value, the Company classifies its financial instruments into following three levels. However, as at the reporting date, the Company has no such type of financial instruments which are required to be grouped into these levels. These levels are explained as under:

Level 1: The fair value of financial instruments traded in active markets (such as publicly traded derivatives, trading and equity securities) is based on quoted market prices at the end of the reporting period. The quoted market price used for financial assets held by the Company is the current bid price. These instruments are included in level 1.

Level 2: The fair value of financial instruments that are not traded in an active market (for example, over-the-counter derivatives) is determined using valuation techniques which maximize the use of observable market data and rely as little as possible on entity-specific estimates. If all significant inputs required to fair value an instrument are observable, the instrument is included in level 2.

Level 3: If one or more of the significant inputs is not based on observable market data, the instrument is included in level 3. This is the case for unlisted equity securities.

#### 37. DATE OF AUTHORIZATION

These financial statements were authorized for issue on **<u>0 5 OCT 2019</u>** by the Board of Directors of the Company.

#### 38. CORRESPONDING FIGURES

Corresponding figures have been re-arranged and re-classified for better presentation, wherever necessary, for the purpose of comparison. However, no significant re-arrangements have been made except following:

| DARTICULARS | RECLASSIFICATION | RUPEES |
|-------------|------------------|--------|
| PARIICOLARS | FROM TO          |        |

Long term financing

Other loans - unsecured

Receipt against deposit works

#### 30,455,000

#### 39. GENERAL

Figures have been rounded off to the nearest Rupee.

CHIEF EXECUTIVE OFFICER

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# Riaz Ahmad & Company

Chartered Accountants

A member of

# MULTAN ELECTRIC POWER COMPANY LIMITED

# FINANCIAL STATEMENTS WITH ACCOMPANYING INFORMATION

# 30 JUNE 2018

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# Riaz Ahmad & Company

Chartered Accountants

560-F, Raja Road, Gulistan Colony Faisalabad 38000, Pakistan 17: +92 (41) 886 10 42, 886 36 44 F: +92 (41) 886 36 11 Facofsd@racopk.com

# INDEPENDENT AUDITORS' REPORT

To the members of Multan Electric Power Company Limited

Report on the Audit of the Financial Statements

# Opinion

We have audited the annexed financial statements of Multan Electric Power Company Limited ('the Company'), which comprise the statement of financial position as at 30 June 2018, and the statement of profit or loss, the statement of comprehensive income, the statement of changes in equity, the statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies and other explanatory information, and we state that we have obtained all the information and explanations which, to the best of our knowledge and belief, were necessary for the purposes of the audit.

In our opinion and to the best of our information and according to the explanations given to us, the statement of financial position, the statement of profit or loss, the statement of comprehensive income, the statement of changes in equity and the statement of cash flowstogether with the notes forming part thereof conform with the accounting and reporting standards as applicable in Pakistan and give the information required by the Companies Act, 2017 (XIX of 2017), in the manner so required and respectively give a true and fair view of the state of the Company's affairs as at 30 June 2018 and of the loss, other comprehensive loss, the changes in equity and its cash flows for the year then ended.

# **Basis for Opinion**

We conducted our audit in accordance with International Standards on Auditing (ISAs) as applicable in Pakistan. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the Company in accordance with the International Ethics Standards Board for Accountants' Code of Ethics for Professional Accountants as adopted by the Institute of Chartered Accountants of Pakistan ('the Code') and we have fulfilled our other ethical responsibilities in accordance with the Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

# **Emphasis of Matter**

We draw attention to the following matters:

a) Note 12.1.2 to the financial statements, which states that the Company has not recognized the impact of debit notes issued by Central Power Purchasing Agency (Guarantee) Limited (CPPA) for supplementary charges, being the mark-up charged on

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CPPA by Independent Power Producers (IPPs) on account of delayed payments, aggregating to Rupees 12,446.89 million.

- b) Note 12.1.3 to the financial statements, interest on workers' profit participation fund amounting to Rupees 1,117.12 million was not accounted for by the Company. Moreover, workers' profit participation fund of previous years along with related interest was not paid to the workers due to pending decision of Economic Coordination Committee to exempt the corporatized entities under the umbrella of WAPDA.
- c) Note 36 to the financial statements, the Company received financial assistance from USAID under Power Distribution Improvement Program (the USAID Project) in form of tangible assets including distribution equipment, vehicles; and computing equipment; intangible assets including ERP and related software; and technical assistance in form of technical trainings and ERP technology implementation. The Company has not recognized these tangible and intangible assets.

Our opinion is not modified in respect of these matters.

# Responsibilities of Management and Board of Directors for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with the accounting and reporting standards as applicable in Pakistan and the requirements of Companies Act, 2017 (XIX of 2017) and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disciosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Board of directors are responsible for overseeing the Company's financial reporting process.

# Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs as applicable in Pakistan will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

# Riaz Ahmad & Company

Chartered Accountants

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As part of an audit in accordance with ISAs as applicable in Pakistan, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditors' report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditors' report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with the board of directors regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

# Report on Other Legal and Regulatory Requirements

Based on our audit, we further report that in our opinion:

- a) proper books of account have been kept by the Company as required by the Companies Act, 2017 (XIX of 2017);
- b) the statement of financial position, the statement of profit or loss, the statement of comprehensive income, the statement of changes in equity and the statement of cash flows together with the notes thereon have been drawn up in conformity with

Riaz Ahmad & Company Chartered Accountants

the Companies Act, 2017 (XIX of 2017) and are in agreement with the books of account and returns;

- c) Investments made, expenditure incurred and guarantees extended during the year were for the purpose of the Company's business; and
- d) no Zakat was deductible at source under the Zakat and Ushr Ordinance, 1980 (XVIII of 1980)

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The engagement partner on the audit resulting in this independent auditors' report is Liaqat Ali Panwar.

Mill HAmad & co. RIAZ AHMAD & COMPANY

Chartered Accountants

Faisalabad

Date: 0 8 OCT 2018

#### MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF FINANCIAL POSITION AS AT 30 JUNE 2018

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DIRECTOR

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| EQUITY AND LIABILITIES                                                   | NOTE | 2018<br>Rupees                                 | 2017<br>RUPEES<br>Restated                                                                                     | 2016<br>RUPEES<br>Restated           | ASSETS                                                                               | NOTE                        | 2018<br>RUPEES                                                     | 2017<br>RUPEES  | 2016<br>RUPEES  |
|--------------------------------------------------------------------------|------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------|-----------------|-----------------|
| SHARE CAPITAL AND RESERVES                                               |      |                                                |                                                                                                                |                                      |                                                                                      |                             |                                                                    |                 |                 |
| Authorized share capital                                                 |      |                                                |                                                                                                                |                                      | NON-CURRENT ASSETS                                                                   |                             |                                                                    |                 |                 |
| 5 000 000 000 (2017: 5 000 000 000) ordinary<br>shares of Rupees 10 each |      | 59,000,000                                     | 50,000,000,000                                                                                                 | 50,000,009,000                       | <b>.</b>                                                                             |                             |                                                                    |                 |                 |
| Townships to the standard and shapes excited                             | 3    | 10.927.636.048                                 | 10 823 636 648                                                                                                 | 10 853 635 0.10                      | Property, plant and equipment                                                        | 13                          | 98,972,863,100                                                     | 89,965,517,935  | 81,680,039,047  |
| Tissued, subscribed and paid up share capital                            | \$   | 10,823,030,030                                 | 37 509 450 451                                                                                                 | 10y023y030y040<br>30 009 450 461     | Long term downlines                                                                  | 14                          | 76,959,810                                                         | 75,205,044      | 26,543,146      |
| Accumulated loss                                                         | 7    | (105 724 501 798)                              | (61.481.748.121)                                                                                               | (32,080,908,909)<br>(32,080,819,905) | tong term betosits                                                                   | 10                          | 49,185                                                             | 49,185          | 49,185          |
| Total equity                                                             |      | (64,810,605,126)                               | (18,149,661,522)                                                                                               | 11,251,266,594                       |                                                                                      | -                           | 99,049,872,095                                                     | 90,041,773,154  | 81,756,251,378  |
| LIABILITIES                                                              |      |                                                |                                                                                                                |                                      |                                                                                      |                             |                                                                    |                 |                 |
| NON-CURRENT LIABILITIES                                                  |      | ÷                                              |                                                                                                                |                                      | CURRENT ASSETS                                                                       |                             |                                                                    |                 |                 |
| Loog term financing                                                      | 5    | 9,204,172,888                                  | 9,080,648,300                                                                                                  | 8,057,695,652                        | Stores and spare parts                                                               | 16                          | 5,763,585,227                                                      | 3,940,715,238   | 4,615,533,705   |
| staff refirement benefits                                                | t    | 78,394,154,272                                 | 56,593,072,377                                                                                                 | 43,010,531,974                       | Trade debts                                                                          | 17                          | 39,045,856,911                                                     | 27,545,653,037  | 19,808,019,606  |
| Long term security deposits                                              | 2    | 8,164,534,805                                  | 7,210,180,701                                                                                                  | 6,339,486,868                        | Loans and advances                                                                   | 18                          | 411,795,054                                                        | 250,430,568     | 386,193,503     |
| Receipt against depose works                                             | 8    | 20,479,389,978                                 | 17,393,852,409                                                                                                 | 14,942,226,573                       | Other receivables                                                                    | 19                          | 57,697,402,536                                                     | 38,758,498,258  | 29,106,168,459  |
| Deferred credit                                                          | 9    | 51,137,295,374                                 | 47,319,824,871                                                                                                 | 43,891,068,409                       | Tax refunds due from Government                                                      | 20                          | 10,573,864,099                                                     | 10,142,850,087  | 12,581,170,106  |
| Deferred mark-up                                                         |      | 626,688,454                                    | 291,904,353                                                                                                    | 244,386,437                          | Accaued interest                                                                     |                             | 48,504,557                                                         | 40,060,925      | 14,611,240      |
|                                                                          |      | 160,006,236,781                                | 137,839,493,011                                                                                                | 116,495,395,913                      | Crish and clink balances                                                             | 21                          | 10,220,738,570                                                     | 8,862,111,274   | 4,573,085,734   |
| CURRENT LIABILITIES                                                      |      |                                                |                                                                                                                |                                      |                                                                                      |                             | 123,861,746,954                                                    | 89,540,319,387  | 71,084,987,362  |
| Trade and other payables                                                 | 10   | 116,046,041,236                                | 49,936,229,621                                                                                                 | 17,607,720,584                       |                                                                                      |                             |                                                                    |                 |                 |
| Accrued mark-up                                                          | 11   | 7,392,300,877                                  | 6,302,177,109                                                                                                  | 4,791,934,642                        |                                                                                      |                             |                                                                    |                 |                 |
| Current portion of long term mancing                                     | 5    | 4,472,545,281                                  | 3,603,804,432                                                                                                  | 2,695,400,807                        |                                                                                      |                             |                                                                    |                 |                 |
|                                                                          |      | 127,715,987,354                                | 59,842,261,162                                                                                                 | 25,095,056,233                       |                                                                                      |                             |                                                                    |                 |                 |
| TOTAL LIABILITIES                                                        |      | 267,722,224,175                                | 197,731,754,173                                                                                                | 141,590,452,146                      |                                                                                      |                             |                                                                    |                 |                 |
| CONTINGENCIES AND COMMITMENTS                                            | 12   |                                                |                                                                                                                |                                      |                                                                                      |                             |                                                                    |                 |                 |
| TOTAL EQUITY AND LIABILITIES                                             |      | 222,911,619,049                                | 179,582,092,551                                                                                                | 152,841,715,240                      | TOTAL ASSETS                                                                         |                             | 222,911,619,049                                                    | 179,582,092,551 | 152,641,718,740 |
| The annexed potes form an integral part of these financial statuments.   |      |                                                |                                                                                                                |                                      |                                                                                      |                             |                                                                    |                 |                 |
|                                                                          |      | an a sanga sa sanga sa sanga sa sanga sa sanga | a a ser a guardena a ser a construction de la construction de la construction de la construction de la constru |                                      | a a second definition of the second definition of the second contract definition and | and the second state of the | ngar ann a na far a bhairdhan Angara ann a' an an an ann angaran a | JU.I            | VP /            |

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# MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF PROFIT OR LOSS FOR THE YEAR ENDED BO JUNE 2018

|                                                                                     | NOTE       | 2018<br>RUPEES                                          | 2017<br>RUPEES                                          |
|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------|---------------------------------------------------------|
| SALES OF ELECTRICITY - NET<br>TARIFF DIFFERENTIAL SUBSIDY                           | 22<br>23 _ | 139,972,299,041<br>40,264,736,364                       | 107,599,220,857<br>31,085,758,277                       |
| COST OF ELECTRICITY<br>GROSS LOSS                                                   | 24 _       | (192,693,791,151)<br>(12,456,755,746)                   | 138,684,979,134<br>(140,019,166,193)<br>(1,334,187,059) |
| AMORTIZATION OF DEFERRED CREDIT                                                     | 9          | 2,405,158,345                                           | 2,213,528,610                                           |
| OPERATING EXPENSES EXCLUDING DEPRECIATION<br>DEPRECIATION ON OPERATING FIXED ASSETS | 25<br>13.3 | (10,051,597,401)<br>(21,875,164,839)<br>(4,191,383,172) | 879,341,551<br>(17,266,228,807)<br>(3,734,844,871)      |
| LOSS FROM OPERATIONS                                                                |            | (36,118,145,412)                                        | (21,001,073,678)<br>(20,121,732,127)                    |
| FINANCE COST<br>LOSS BEFORE TAXATION                                                | 25<br>27   | 3,426,436,794<br>(1,133,018,209)                        | 3,121,283,160<br>(934,061,591)                          |
| TAXATION                                                                            | 28         |                                                         | (17,934,510,558)                                        |
| LOSS AFTER TAXATION                                                                 |            | (33,824,725,827)                                        | (17.934,510,558)                                        |
| LOSS PER SHARE - BASIC                                                              | 29         | (31.25)                                                 | (16.57)                                                 |
| LOSS PER SHARE - DILUTED                                                            | 2.)<br>    | (8.17)                                                  | (4.14)                                                  |

The annexed notes form an Integral part of these financial statements.

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# MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDED 30 JUNE 2018

|                                                                                                                                                                       | 2018<br>RUPEES   | 2017<br>RUPEES   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|
| LOSS AFTER TAXATION                                                                                                                                                   | (33,824,726,827) | (17,934,510,558) |
| OTHER COMPREHENSIVE LOSS                                                                                                                                              |                  |                  |
| Items that will not be reclassified subsequently to profit or loss:<br>Remeasurement of defined benefit obligations<br>Items that may be reclassified subsequently to | (10,918,026,850) | (11,466,417,658) |
| profit or loss                                                                                                                                                        |                  | -                |
| Other comprehensive loss for the year                                                                                                                                 | (10,918,026,850) | (11,466,417,658) |
| TOTAL COMPREHENSIVE LOSS FOR THE YEAR                                                                                                                                 | (44,742,753,677) | (29,400,928,216) |

The annexed notes form an integral part of these financial statements.

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# MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 30 JUNE 2013

| 19         |                                                                                                     |                |                                       |                                                          |                                                          |
|------------|-----------------------------------------------------------------------------------------------------|----------------|---------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
|            |                                                                                                     | SHARE CAPITAL  | DEPOSIT FOR<br>SHARES                 | ACCUMULATED LOSS                                         | TOTAL EQUITY                                             |
| •          |                                                                                                     | RUPEES         |                                       |                                                          |                                                          |
| 2          | Balance as at 30 June 2016                                                                          | 10,823,636,046 | 32,508.450,451                        | (26,569,100,723)                                         | 16,762,985,776                                           |
| _          | Impact of restatement (Note 10.1.1)                                                                 | -              | -                                     | (5,511,719,182)                                          | (5.511,719,182)                                          |
| -          | Balance as at 30 June 2015-restated                                                                 | 10,823,636,048 | 32,508,450,451                        | (32,080,819,905)                                         | 11,251,266,594                                           |
| ~          | Loss for the year                                                                                   | -              | -                                     | (17,934,510,558)                                         | (17,93-1,510,558)                                        |
|            | Other comprehensive loss for the year                                                               |                | ;<br>                                 | (11,466,417,658)                                         | (11,466,417,653)                                         |
|            | Total comprehensive loss for the year                                                               | •              | -                                     | (29,400,928,216)                                         | (29,400,928,216)                                         |
| <b>F-4</b> | Balance as at 30 June 2017-restated                                                                 | 10,823,636,048 | 32,508,450,451                        | (61,481,748,121)                                         | (18,149,661,622)                                         |
| 1          | Non-cash settlement against deposit for shares (Note $4$ )                                          |                | (1.918.189,327)                       | -                                                        | (1,918,139,827)                                          |
| ••         | Loss for the year<br>Other comprehensive loss for the year<br>Total comprehensive loss for the year | -              | · · · · · · · · · · · · · · · · · · · | (33,324,726,327)<br>(10,918,026,850)<br>(44,742,753,677) | (33,324,726,327)<br>(10,918,026,350)<br>(44,742,753,677) |
|            | Balance as at 30 June 2018                                                                          | 10.823.636.048 | 30,500,260,624                        | (106,224,501,798)                                        | (64,810,605,126)                                         |
|            | The annexed notes form an integral part of these financi                                            | al statements. |                                       |                                                          |                                                          |

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# MULTAN ELECTRIC POWER COMPANY LIMITED STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 30 JUNE 2018

| - |                                                                                                                                                                                                                     | NOTE | 2018<br>RUPEES                                                                                       | 2017<br>RUPEES                                                                                   |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| ~ | CASH FLOWS FROM OPERATING ACTIVITIES                                                                                                                                                                                |      |                                                                                                      |                                                                                                  |
|   | <b>Cash generated from operations</b><br>Finance cost paid<br>Income tax paid<br>Staff retirement benefits paid<br>Payment for Fund contribution regarding pension obligation<br>Net increase in long term advances | 30   | 8,080,562,288<br>(211,502,388)<br>(1,766,263,571)<br>(3,211,269,876)<br>(456,073,833)<br>(7,412,918) | 7,387,771,253<br>(6,856,757)<br>(10,140,769)<br>(2,461,130,746)<br>(353,129,105)<br>(15,531,274) |
| - | Net cash generated from operating activities                                                                                                                                                                        | -    | 2,428,019,702                                                                                        | 4,540,982,602                                                                                    |
| - | CASH FLOWS FROM INVESTING ACTIVITIES                                                                                                                                                                                |      |                                                                                                      |                                                                                                  |
|   | Capital expenditure on property, plant and equipment<br>Proceeds from disposal of property, plant and equipment<br>Profit on bank deposits received                                                                 |      | (12,923,744,347)<br>300,000<br>599,174,983                                                           | (11,416,409,015)<br>-<br>278,480,939                                                             |
| - | Net cash used in investing activities                                                                                                                                                                               |      | (12,324,269,364)                                                                                     | (11,137,928,076)                                                                                 |
| - | CASH FLOWS FROM FINANCING ACTIVITIES                                                                                                                                                                                |      |                                                                                                      |                                                                                                  |
|   | Proceeds from long term financing<br>Repayment of long term financing<br>Consumers' security deposits received<br>Receipt against deposit works-net                                                                 |      | 1,021,005,491<br>(23,641,054)<br>954,354,104<br>9,308,157,417                                        | 1,925,956,164<br>(4,599,891)<br>870,693,833<br>8,093,920,908                                     |
|   | Net cash from financing activities                                                                                                                                                                                  |      | 11,254,876,958                                                                                       | 10,855,971,014                                                                                   |
|   | NET INCREASE IN CASH AND CASH EQUIVALENTS                                                                                                                                                                           |      | 1,358,627,296                                                                                        | 4,289,025,540                                                                                    |
| - | CASH AND CASH EQUIVALENTS AT THE<br>BEGINNING OF THE YEAR                                                                                                                                                           |      | 8,852,111,274                                                                                        | 4,573,085,734                                                                                    |
| 1 | CASH AND CASH EQUIVALENTS AT THE<br>END OF THE YEAR (NOTE 21)                                                                                                                                                       | -    | 10,220,738,570                                                                                       | 8,862,111,274                                                                                    |

The annexed notes form an integral part of these financial statements.

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# MULTAN ELECTRIC POWER COMPANY LIMITED NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 30 JUNE 2018

## 1. THE COMPANY AND ITS ACTIVITIES

Multan Electric Power Company Limited (the Company) is a public limited company incorporated in Pakistan under the repealed Companies Ordinance, 1964 (now Companies Act, 2017). The Company was established to takeover all the properties, rights, assets, obligations and liabilities of Multan Area Electricity Board ("MAEB") owned by Pakistan Water and Power Development Authority ("WAPDA") and such other assets and liabilities as agreed. The Company was incorporated on 14 May 1998 and commenced operation on 09 June 1998. Its registered office is situated at Shahrah-e-Quaid-e-Azam, WAPDA House, Lancre. The principal place of business of the Company is located at Khanewal Road, Multan, While the Company nave various 132-K7 and 66-KV grid stations along with other offices located in 13 districts of South Punjap Including Multan, Pakpattan, Sahiwal, Khanewai, Bahawalnagar, Bahawalpur, Rahim Yar Khan, Lodhran, Dera Ghazi Khan, Layyah, Muzaifargarh, Rajanpur and Venari. The principal activity of the Company is distribution and supply of electricity to public within defined approximation boundaries.

# 1.1 Summary of significant transactions and events affecting the Company's financial position and performance

Due to the applicability of Companies Act, 2017, certain disclosures of the financial statements have been presented in accordance with the fifth schedule notified by Securities and Exchange Commission of Pakistan (SECP).

1.2 National Electric Power Regulatory Authonity (NEPRA) decision determination issued vide its letter no. NEPRA/TRF-410/14412-14414 dated to September 2018, subsequent to the reporting date, has adjusted the tariff of the Company on account of Power Purchase Price (PPP), Prior Year Adjustment (PYA) and Distribution Margin (DM). According to the decision/determination of NEPRA, the adjustment of Rupees 49.170 billion will be billed to the consumers on notification by Government of Pakistan. This adjustment will enhance the sales of the Company by Rupees 49.170 billion in the next Changel year.

#### 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The significant accounting policies applied in the preparation of these financial statements are set out below. These policies have been consistently applied to all years presented, unless otherwise stated:

## 2.1 Basis of preparation

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#### a) Statement of compliance

These financial statements have been prepared in accordance with the accounting and reporting standards as applicable in Pakistan. The accounting and reporting standards applicable in Pakistan comprise of:

- International Financial Reporting Standards (IFRSs) issued by the International Accounting Standards Board (IASB) as notified under the Companies Act, 2017; and

- Provisions of and directives issued under the Companies Act, 2017.

Where previsions of and directives issued under the Companies Act, 2017 differ from the IFRSs, the provisions of and directives issued under the Companies Act, 2017 have been followed.

### b) Preparation of financial statements under the Companies Act, 2017

The fifth schedule to the Companies Act, 2017 became applicable to the Company for the first time for the preparation of these financial statements. The Companies Act, 2017 (including its fifth schedule) forms an integral part of the statutory financial reporting framework applicable to the Company and amongst others, prescribes the nature and content of disclosures in relation to various elements of the financial statements. Additional disclosures include but are not limited to change in threshold for identification of executives (Note 31), requirements for related parties transactions (Note 32) etc.

# c) Accounting convention

These financial statements have been prepared under the historical cost convention, except for the staff retirement benefits which are measured at present value determined annually through actuarial valuation on each reporting date.

## Critical accounting estimates and judgments

The preparation of financial statements in conformity with the approved accounting standards requires the use of certain critical accounting estimates. It also requires the management to exercise its judgment in the process of applying the Company's accounting policies. Estimates and judgments are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The areas where various assumptions and estimates are significant to the Company's financial statements or where judgments were exercised in application of accounting policies are as follows:

# Useful lives, patterns of economic benefits and impairments

Estimates with respect to residual values and useful lives and pattern of flow of economic benefits are based on the analysis of the management of the Company. Further, the Company reviews the value of assets for possible impairment on annual basis. Any change in the estimates in the future might affect the carrying amount of respective item of property, plant and equipment, with a corresponding effect on the depreciation charge and impairment.

# Provision for obsolescence of stores and spare parts

The Company reviews the carrying amount of stores and spare parts on regular basis and provision for obsciesconce is made if there is any change in usage pattern and physical form of stores and spare parts.

#### Taxation

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In making the estimates for income tax currently payable by the Company, the management takes into account the current income tax law and the decisions of appellate authorities on certain issues in the past.

### Provision for doubtful debts

The Company reviews its receivable balances against any provision required for any doubtful balances on an ungoing basis. The provision is made while taking into consideration expected recoveries, if any.

#### Staff retirement benefits

Certain actuarial assumptions have been adopted as disclosed in Note 5 to the financial statements for determination of present value of staff retirement benefits. Any change in these assumptions in future years might affect the current and remeasurement gains and losses in those years.

# e) Implication of revised IFRS 2 'Share-based Payment'

On 14 August 2009, the Government of Pakistan (GoP) launched Benazir Employees' Stock Option Scheme ("the Scheme") for employees of certain State Owned Enterprises (SOEs), including the Company and Non-State Owned Enterprises (Non-SOEs), where the GoP holds significant investments. The Scheme is applicable to permanent and contractual employees who were in employment of these enticles on the date of launch of the Scheme, subject to completion of five years vesting period by all contractual employees and by permanent employees in certain instances.

The Scheme provides for cash payment to employees on retirement or termination based on the price of shares of respective entities. To administer the Scheme, the Government shall transfer 12 percent of its investment in such SOEs and Non-SOEs to a Trust Fund, established under a trust deed, created for the purpose by each such entity. The eligible employees are entitled to be allotted units by each Trust Fund in proportion to their respective length of service and on retirement or termination, such employees would be entitled to receive such amounts from Trust Funds in exchange for the surrendered units, as would be determined based on market price for listed entities or breakup value of non-listed entities. The shares relating to the surrendered units would be transferred back to the GoP.

The Scheme also provides that 50 percent of dividend related to shares transferred to the respective Trust Fund would be distributed amongst the unit-holding employees. The balance 50 percent dividend would be transferred by the respective Trust Fund to the Central Revolving Fund, managed by the Privatization Commission of Pakistan for payment to employees against surrendered units. The deficit, if any, in Trust Funds to meet the re-purchase commitment would be met by the Government. The Scheme, developed in compliance with the stated GoP policy of empowerment of employees of SOEs, needs to be accounted for by the covered entities, including the Company, under the provisions of amended IFRS 2. However, keeping in view the difficulties that may be faced by

the entities covered under the Scheme, the SECP, on receiving representations from some of entitles covered under the scheme and after having consulted the Institute of Chartered Accountants of Pakistan, has granted exemption vide SRO 587(I)/2011 dated 07 June 2011 to such entities from the application of IFRS 2 to the Scheme.

Amendments to published approved accounting standards that are effective in current year and are relevant to the Company

Following amendments to published approved accounting standards are mandatory for the Company's accounting periods beginning on or after 01 July 2017:

International Accounting Standard (IAS).7 (Amendments), 'Statement of Cash Flows' (effective for annual periods beginning on or after 01 January 2017). Amendments have been made to clarify that entities shall provide disclosures that enable users of financial statements to evaluate changes in liabilities arising from financing activities. The aforesaid amendments have resulted in certain additional disclosures in the Company's financial statements.

IAS 12 (Amendments), 'Income Taxes' (effective for annual periods beginning on or after 01 January 2017). The amendments clarify that the existence of a deductible temporary difference depends solely on a comparison of the carrying amount of an asset and its tax base at the end of the reporting period, and is not affected by possible future changes in the carrying amount or expected manner of recovery of the asset. The amendments further clarify that when calculating deferred tax asset in respect of insufficient taxable temporary differences, the future taxable profit excludes tax deductions resulting from the reversal of those deductible temporary differences. The amendments have no significant impact on the Company's financial statements.

The application of the above amendments does not result in any impact on profit or loss, other comprehensive income and total comprehensive income.

# g) Amendments to published approved accounting standards that are effective in current year but not relevant to the Company

There are other amendments to published standards that are mandatory for accounting periods beginning on or after 01 July 2017 but are considered not to be relevant or do not have any significant impact on the Company's financial statements and are therefore not detailed in these financial statements.

# Standards, interpretations and amendments to published approved accounting standards that are not yet effective but relevant to the Company

Following standards, interpretations and amendments to existing standards have been published and are mandatory for the Company's accounting periods beginning on or after 01 July 2018 or later periods:

IFRS 9 'Financial Instruments' (effective for annual periods beginning on or after 01 July 2018). A finalized version of IFRS 9 which contains accounting requirements for financial instruments, replacing IAS 39 'Financial Instruments: Recognition and Measurement'. Financial assets are classified by reference to the business model within which they are held and their contractual cash flow characteristics. The 2014 version of IFRS 9 introduces a 'fair value through other comprehensive income' category for certain debt instruments. Financial liabilities are classified in a similar manner as under IAS 39, however there are differences in the requirements applying to the measurement of an entity's own credit risk. The 2014 version of IFRS 9 introduces an 'expected credit loss' model for the measurement of the impairment of financial assets, so it is no longer necessary for a credit event to have occurred before a credit loss is recognized. It introduces a new hedge accounting model that is designed to be more closely aligned with how entities undertake risk management activities when hedging financial and non-financial risk exposures. The requirements for the de-recognition of financial assets and liabilities are carried forward from IAS 39. The management of the Company is in the process of evaluating the impacts of the aforesaid standard on the Company's financial statements.

IFRS 15 'Revenue from Contracts with Customers' (effective for annual periods beginning on or after 01 July 2018). IFRS 15 provides a single, principles based five-step model to be applied to all contracts with customers. The five steps in the model are: identify the contract with the customer; identify the performance obligations in the contract; determine the transaction price; allocate the transaction price to the performance obligations. Guidance is provided on topics such as the point in which revenue is recognized, accounting for variable consideration, costs of fulfilling and obtaining a contract and various related matters. New disclosures about revenue are also introduced. The aforesaid standard is not expected to have a material impact on the Company's financial statements.

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Amendments to IFRS 9 (effective for annual periods beginning on or after 01 January 2019) clarify that for the purpose of assessing whether a payment feature meets the Solely Payments of Principal and Interest ('SPPI') condition, the party exercising the option may pay or receive reasonable compensation for the prepayment irrespective of the reason for prepayment. In other words, prepayment features with negative compensation do not automatically fail SPPI. The amendments are not likely to have significant impact on the Company's financial statements.

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IFRS 15 (Amendments), 'Revenue from Contracts with Customers' (effective for annual periods beginning on or after 01 July 2018). Amendments clarify three aspects of the standard (identifying performance obligations, principal versus agent considerations and licensing) and to provide some transition relief for modified contracts and completed contracts. The aforesaid amendments are not expected to have a material impact on the Company's financial statements.

IAS 19 (Amendments), 'Employee Benefits' (effective for annual periods beginning on or after 01 January 2019). The amendments clarify that on amendment, curtailment or settlement of defined benefit plan, a Company now uses updated actuarial assumptions to determine its current service cost and net interest for the period; and the effect of the asset celling is disregarded when calculating the gain or less on any settlement of the plan and is dealt with separately in other comprehensive income. The application of amendments is not likely to have an impact on the Company's financial statements.

IFRIC 22 'Foreign Currency Transactions and Advance Consideration' (effective for annual periods beginning on or after 01 January 2018). IFRIC 22 clarifies which date should be used for translation when a foreign currency transaction involves payment or receipt in advance of the item it relates to. The related item is translated using the exchange rate on the date the advance foreign currency is received or paid and the prepayment or deferred income is recognized. The date of the transaction for the purpose of determining the exchange rate to use on initial recognition of the related asset, expense or income (or part of it) would remain the date on which receipt of payment from advance consideration was recognized. If there are multiple payments or receipts in advance, the entity shall determine a date of the transaction for each payment or receipt of advance consideration. The interpretation is not expected to have a material impact on the Company's financial statements.

IFRIC 23 'Uncertainty over Income Tax Treatments' (effective for annual periods beginning on or after 01 January 2019). The interpretation addresses the determination of taxable profit (tax loss), tax bases, unused tax losses, unused tax credits and tax rates, when there is uncertainty over income tax treatments under IAS 12 'Income Taxes'. It specifically considers: whether tax treatments should be considered collectively; assumptions for taxation authorities' examinations; the determination of taxable profit (tax loss), tax bases, unused tax credits and tax rates; and the effect of changes in facts and circumstances. The interpretation is not expected to have a material impact on the Company's financial statements.

On 12 December 2017, IASB issued Annual Improvements to IFRS Standards: 2015-2017 Cycle, incorporating amendments to four IFRSs more specifically in IAS 12 'Income Taxes' and IAS 23 'Borrowing Costs', relevant to the Company. The amendments are effective for annual periods begging on or after 01 January 2019. The amendments have no significant impact on the Company's financial statements and have therefore not been analyzed in detail.

On 29 March 2018, the IASB issued a revised Conceptual Framework. The new Framework reintroduces the terms stewardship and prudence; Introduces a new asset definition that focuses on rights and new liability definition that is likely to be broader than the definition it replaces, but does not change the distinction between a liability and an equity instrument; removes from the asset and liability definitions references to the expected flow of economic benefits - this lowers the hurdle for identifying the existence of an asset or liability and puts more emphasis on reflecting uncertainty in measurement; discusses historical cost and current value measures, and provides some guidance on how the IASB would go about selecting a measurement basis for a particular asset or liability; states that the primary measure of financial performance is profit or loss, and that only in exceptional circumstances will the IASB use other comprehensive income and only for income or expenses that arise from a change in the current value of an asset or liability; and discusses uncertainty, denoccypticin, unit of dccuvit, unit effecting, so nothing will change in short term. The revised Framework is not an IFRS and does not override any standard, so nothing will change in short term. The revised Framework will be used in future standard-setting decisions, but no changes will be made to current IFRSs. Preparers might also use the Framework to asset them in developing accounting policies where an issue is not addressed by an IFRS. It is effective for annual periods beginning on or after 01 January 2020 for preparers that develop an accounting policy based on the Framework.

# Standards and amendments to published approved accounting standards that are not yet effective and not considered relevant to the Company

There are other standards and amendments to outlished approved accounting standards that are mandatory for accounting periods beginning on or after 01 July 2018 but are considered not to be relevant or do not have any significant impact on the Company's financial statements and are therefore not detailed in these financial statements.

#### 2.2 Foreign currencies

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These financial statements are presented in Pak Rupees, which is the Company's functional currency. All monetary assets and liabilities denominated in foreign currencies are translated into Pak Rupees at the rates of exchange prevailing at the reporting date, while the transactions in foreign currencies during the year are initially recorded in functional currency at the rates of exchange prevailing at the transaction date. All non-monetary items are translated into Pak Rupees at exchange rates prevailing on the date of transaction or on the date when fair values are determined. Exchange gains and icesses are recorded in the statement of profit of loss.

## 2.3 Staff retirement benefits

The Company provides funded pension scheme, an unfunded free electricity scheme and an unfunded free medical facility scheme for all its employees. Further, the Company's employees are also entitled for accumulated compensated absences which are encashed at the time of retirement upto maximum limit of 365 days. The Company's obligations under these schemes are determined annually by a qualified actuary using Projected Unit Credit Actuarial Cost Method. Latest actuarial valuations have been carried on 30 June 2018. The Company's net obligation in respect of defined benefit plans is calculated by estimating the amount of future benefit that employees have earned in the current and prior periods, discounting that amount and deducting the fair value of any plan assets. Past service cost is recognized immediately in the statement of profit or loss.

Remeasurement of the net defined benefit liability (except for compensated absences), which comprises actuarial gains and losses, the return on plan assets (excluding interest) and the effect of the asset celling (if any, excluding interest), are recognised immediately in other comprehensive income. The Company determines the net interest expense on the net defined benefit liability for the period by applying the discount rate used to measure the defined benefit obligation at the beginning of the annual period to the then-net defined benefit liability, taking into account any changes in the net defined benefit liability during the period as a result of contributions and benefits payments. Net interest expense and other expenses related to defined benefit plan is recognised in profit or loss. Remeasurement related to the compensated absences is recognized in the year or occurrence in the statement of profit or less.

# 2.3.1 General / Employees' Provident Fund

For General / Employees' Provident Fund and WAPDA Welfare Fund, the Company makes deduction from salaries of the employees and remits these amounts to the funds established by WAPDA. The provident fund related disclosure required by the Companies Act, 2017 is not shown in these financial statements as General / Employees' Provident Fund established by WAPDA includes the employees of other power distribution and generation companies and the figures related to the Company cannot be segregated from the whole General / Employees' Provident Fund.

## 2.4 Taxation

#### Current

Provision for current tax is based on the taxable income for the year determined in accordance with the prevailing law for taxation of income. The charge for current tax is calculated using prevailing tax rates or tax rates expected to apply to the profit for the year, if enacted. The charge for current tax also includes adjustments, where considered necessary, to provision for tax made in previous years arising from assessments framed during the year for such years.

## Deferred

Deferred tax is accounted for using the liability method in respect of all temporary differences arising from differences between the carrying amount of assets and ilabilities in the financial statements and the corresponding tax bases used in the computation of the taxable profit. Deferred tax liabilities are generally recognized for all taxable temporary differences and deferred tax assets to the extent that it is probable that taxable profits will be available against which the deductible temporary differences, unused tax losses and tax credits can be utilized.

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Deferred tax is calculated at the rates that are expected to apply to the period when the differences reverse based on tax rates that have been enacted or substantively enacted by the reporting date. Deferred tax is charged or credited in the statement of profit or ioss, except to the extent that it relates to items recognized in other comprehensive income or directly in equity. In this case, the tax is also recognized in other comprehensive income or directly in equity, respectively.

## 2.5 Property, plant and equipment

## 2.5.1 Operating fixed assets and depreciation

## a) Cost

Operating fixed assets are stated at cost less accumulated depreciation and any identified impairment loss, except freehold land which is stated at cost less any identified impairment loss and leasehold land which is stated at cost less accumulated depreciation and any identified impairment loss. Cost of operating fixed assets consists of historical cost, borrowing cost pertaining to the erection / construction period of qualifying assets and directly attributable costs of bringing the assets to working condition for their intended use.

Subsequent costs are included in the assot's carrying amount or recognized as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Company and the cost of the item can be measured reliably. All other repair and maintenance costs are charged to the statement of profit or loss during the period in which they are incurred.

# b) Depreciation

Depreciation on operating fixed assets is calculated applying the straight line method so as to write off the cost / depreciable amount of the assets over their estimated useful lives at the rates given in Note 13.2. The Company charges the depreciation on additions from the month when the asset is available for use and on deletions up to the month when the asset is de-recognized. Depreciation on operating fixed assets is charged to the statement of profit or loss except for depreciation provided on construction equipment and vehicles during the period of construction of operating fixed assets that is capitalized as part of the cost of operating fixed assets. The residual values and useful lives are reviewed by the management, at each financial year-end and adjusted if impact on depreciation is significant.

#### c) De-recognition

An item of property, plant and equipment is de-recognized upon disposal or when no future economic benefits are expected from its use or disposal. Any gain or loss arising on de-recognition of the asset is included in the statement of profit or loss in the year the asset is de-recognized.

# 2.5.2 Capital work-in-progress

Capital work-in-progress is stated at cost less any recognized impairment loss. This includes all costs connected with specific assets incurred during installation and construction period. These are transferred to specific assets as and when these assets are available for use.

# 2.6 Stores and spare parts

Usable stores and spare parts except for items in transit are valued principally at moving average cost, while items considered obsolete are carried at nil value. Items-in-transit are stated at invoice amount plus other charges paid thereon.

# 2.7 Cash and cash equivalents

Cash and cash equivalents comprise cash in hand, cash at banks on current, saving and deposit accounts and other short term highly liquid instruments that are readily convertible into known amounts of cash and which are subject to insignificant risk of changes in values.

## 2.8 Revenue recognition

Following specific recognition criteria must be met before revenue is recognized:

#### Sale of electricity

Revenue from the sale of electricity is recognized on supply of electricity to consumers at the rates determined by NEPRA and notified by the Government of Pakistan in official gazette from time to time. Late payment charges are recognized on accrual basis.

#### Tariff differential subsidy

Tariff differential subsidy on electricity announced by the Government of Pakistan for consumers is recognized under revenue on an accrual basis.

#### Rental and service income

Meter rentals are recognized on time proportion basis.

#### Interest income

Profit on bank deposits is recognized on time proportion basis taking into account the principal outstanding and rates of profits applicable thereon.

### Sale of scrap

Revenue from sale of scrap is recognized on dispatch of goods.

#### 2.9 Financial instruments

Financial instruments carried on the statement of financial position include deposits, trade debts, loans and advances, accrued interest, other receivables, cash and bank balances, long term financing, accrued mark-up and trade and other payables. Financial assets and liabilities are recognized when the Company becomes a party to the contractual provisions of instrument. Initial recognizion is made at fair value plus transaction costs direction attributable to acquisition, except for "financial instruments at fair value through profit or loss" which are initially measured at fair value.

Financial assets are de-recognized when the Company loses control of the contractual rights that comprise the financial asset. The Company loses such control if it realizes the rights to benefits specified in contract, the rights expire or the Company surrenders these rights. Financial liabilities are de-recognized when the obligation specified in the contract is discharged, cancelled or expired. Any gain or loss on subsequent measurement and derecognizion is charged to the profit or loss currently. The particular measurement methods adopted are disclosed in the individual policy statements associated with each item.

# 2.10 Deferred credit

Amounts received from consumers and Government as contributions towards the cost of extension of electricity distribution network and of providing service connections are deferred and amortized over the estimated useful lives of related assets except for accountely identifiable services in which case revenue is recognized upfront upon establishing a connection network. Amortization of deferred credit for the year is recognized as income in the statement of profit or loss.

# 2.11 Borrowings

Borrowings are recognized initially at fair value and are subsequently stated at amortized cost. Any difference between the proceeds and the recemption value is recognized in the statement of profit or loss over the period of the borrowings using the effective interest method.

#### 2.12 Borrowing cost

Interest, mark-up and other charges on long term finances are capitalized up to the date of commissioning of respective qualifying assets acquired out of the proceeds of such long term finances. All other interest, mark-up and other charges are recognized in the statement of profit or loss.

# 2.13 Trade debts

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Trade debts are carried at original billed value less an estimate of provision for doubtful debts.

Provision for doubtful debts is made as follows:

- a) No provision on Government arrears and Agency balances;
- b) Fifty percent provision on permanently disconnected consumers; and
- c) Provision on arrears from private consumers and deferred arrears at the rates approved,
The percentage rates for creating provision against doubtful debts is as follows:

| Permanently Disconnected Connections  | 50% |
|---------------------------------------|-----|
| Deferred arrears:                     |     |
| More than 1 years and up to 2 years   | 20% |
| More than 2 years and up to 3 years   | 30% |
| More than 3 years and up to 4 years   | 35% |
| More than 4 years and up to 5 years   | 40% |
| More than 5 years                     | 50% |
| Arrears:                              |     |
| More than 3 months and up to 6 months | 5%  |
| More than 6 months and up to 1 year   | 10% |
| More than 1 year and up to 2 years    | 25% |
| More than 2 years and up to 3 years   | 35% |
| More than 3 years and up to 4 years   | 50% |
| More than 4 years and up to 5 years   | 75% |

### 2.14 Loans, advances, deposits and receivables

These are recognized at cost less an estimate made for doubtful receivables based on a review of all outstanding amounts at the year end.

## 2.15 Share Capital

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Ordinary shares are classified as share capital. Incremental costs directly attributable to the issue of new shares are shown in equity as of deduction, net of tax.

# 2.16 Trade and other payables

Liabilities for trade and other amounts payable are initially recognized at fair value, which is normally the transaction cost.

### 2.17 Impairment

### a) Financial assets

A financial asset is considered to be impaired if objective evidence indicates that one or more events had a negative effect on the estimated future cash flow of that asset.

An impairment loss in respect of a financial asset measured at amortized cost is calculated as a difference between its carrying amount and the present value of estimated future cash flows discounted at the original effective interest rate.

Individually significant financial assets are tested for impairment on an individual basis. The remaining financial assets are assessed collectively in groups that share similar credit risk characteristics.

# b) Non-financial assets

The carrying amounts of the Company's non-financial assets are reviewed at each reporting date to determine whether there is any indication of impairment. If such indication exists, the recoverable amount of such asset is estimated. An impairment loss is recognized wherever the carrying amount of the asset exceeds its recoverable amount. Impairment losses are recognized in the statement of profit or loss. A previously recognized impairment loss is recoverable amount is incertable amount if there has been a change in the estimates used to determine the asset's recoverable amount since the last impairment loss was recognized. If that is the case, the carrying amount of the asset is increased to its recoverable amount. That increased amount cannot exceed the carrying amount that would have been determined, net of depreciation, had no impairment loss been recognized for the asset in prior years. Such reversal is recognized in the statement of profit or loss.

### 2.18 Provisions

Provisions are recognized when the Company has a present, legal or constructive obligation as a result of past events and it is probable that an outflow of resources embodying economic benefits will be required to settle the obligations and reliable estimate of the amount can be made. However provisions are reviewed at each reporting date and adjusted to reflect current best estimate.

### 2.19 Offsetting

 Financial assets and financial itabilities are set off and the net amount is reported in the financial statements when there is legal enforceable right to set off and the Company intends either to settle on a net basis or to realize the assets and to settle the liabilities simultaneously.

### 2.20 Earnings / (loss) per share

The Company presents basic and ciluted earnings / (loss) per share data for its ordinary shares. Basic earnings / (loss) per share is calculated by dividing the profit attributable to ordinary shareholders or loss for the year of the Company by the weighted average number of ordinary shares outstanding during the period. Diluted earnings / (loss) per share is determined by adjusting the profit attributable to ordinary shareholders or loss for the year and the weighted average number of ordinary shares outstanding for the effect of all dilutive potential ordinary shares.

### 3. ISSUED, SUBSCRIBED AND PAID UP SHARE CAPITAL

| 2018<br>NUMBER | 2017<br>OF SHARES |                                                                                                                      | 2018<br>RUPEES | 2017<br>RUPEES |
|----------------|-------------------|----------------------------------------------------------------------------------------------------------------------|----------------|----------------|
| 1 000          | 1 000             | Ordinary shares of Rubees 10 each fully<br>paid in cash to Government of Pakistan<br>(GoP) and its nominee directors | 10,000         | 10,000         |
| 1 082 362 604  | 1 082 362 604     | Ordinary shares of Rupees 10 each fully<br>paid issued for consideration other than in<br>cash to WAPDA              | 10,823,626,048 | 10,823,626,048 |
| 1 082 363 604  | 1 082 363 604     |                                                                                                                      | 10,823,636,048 | 10,823,636,048 |

### 4. DEPOSIT FOR SHARES

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This represents credit of Rupees 30,590,260,624 (2017; Rupees 32,508,450,451) received by the Company in financial year 2014 from Central Power Purchase Agency (Guarantee) Limited (CPPA) in pursuance of letter No. F.1(5)-CF-1/2012-13/1017 dated 02 July 2013 from Ministry of Finance as GoP investment against circular debt of Rupees 341 billion. Hence this was treated as GoP equity investment in the Company. During the year amounts of Rupees 1,903,884,307 and Rupees 9,305,520 were adjusted by CPPA as non-cash settlement against the amount of deposit for shares as intimated vide letter No. F.1(4)-CF-1/2015-15/443 dated 28 April 2016 and letter No. F.1(5)-CF-1/2012-13/104 dated 22 January 2018 respectively issued by Finance Division, GoP.

| LONG TERM FINANCING                                              | 2018<br>RUPEES  | 2017<br>RUPEES |
|------------------------------------------------------------------|-----------------|----------------|
| Loans from related party                                         |                 |                |
| Secured                                                          |                 |                |
| From GoP (foreign re-lent) out of:                               |                 |                |
| International Bank for Reconstruction and Development (Note 5.1) | 3,849,036,226   | 0,849,036,226  |
| Asian Development Bank - Tranche I (Note 5.2)                    | 1,354,866,393   | 1,354,866,393  |
| Asian Development Bank - Tranche II (Note 5.3)                   | 2,152,657,090   | 2,122,162,370  |
| Asian Development Bank - Tranche III (Note 5,4)                  | 2,926,079,291   | 2,505,075,911  |
| Asian Development Bank - Tranche IV (Note 5.5)                   | 2,426,953,449   | 1,857,445,058  |
| -<br>Unsecured                                                   | 12,709,592,449  | 11,688,585,958 |
| Cash Development Loan from GoP (Note 5.5)                        | 797,050,000     | 797,050,000    |
|                                                                  | 13,506,642,449  | 12,485,635,958 |
| Other Joans - unsecured (Note 5.7, 5.8, 5.9, 5.10 and 5.11)      | 170,175,720     | 190,816,774    |
| ,                                                                | 13,676,818,169  | 12,684,452,732 |
| Less:                                                            |                 |                |
| Current portion shown under current liabilities                  | 872,992,001     | 742,513,993    |
| Overdue portion shown under current liabilities                  | 3,599,653,280   | 2,861,290,439  |
|                                                                  | 4,472,645,281   | 3,603,804,432  |
|                                                                  | 9,204,172,888 - | 9,080,648,300  |

5.1 This represents re-lent portion of loan obtained by the GoP from International Bank for Reconstruction and Development (IBDP) for electricity distribution and transmission improvement project which is secured against the guarantee by GoP, pursuant to the relativity distribution and transmission improvement project which is secured against the guarantee by GoP, pursuant to the relativity distribution and transmission improvement project which is secured against the guarantee by GoP, pursuant to the relativity distribution and transmission improvement. This facility carries interest at the rate of 17% per annum which comprises of relating interest of 11% per annum which comprises of relating interest of 11% per annum and exchange risk cover of 6% per annum payable on half yearly basis. Repayment of principal has to be made on half yearly basis within maximum period of 15 years including grace period of 2 years starting from September 2011. The overdue amount of principal and mark-up aggregate to Represe 1/205/160 million (2017; Kupees 1,004.87 Million) and Rupees 2,951.499 million (2017; Rupees 2,837.13 million) respectively.

5.2 This represents revient portion of loan obtained by GoP from Asian Development Bank (ADB) for Distribution Enhancement Investment Program which is secured against the guarantee by GoP, pursuant to the revient agreement between GoP and the Company. This facility carries interest at the rate of 17% inclusive of relending interest of 11% per annum plus exchange risk cover fee of 6% per annum which shall be charged both on principal amount and interest amount separately. Repayment of principal has to be made on half yearly basis within maximum period of 15 years including grace period of 2 years starting from February 2011. The overdue amount of principal and mark-up aggregate to Rupees 889.180 million (2017: Rupees 825.03 million) and Rupees 631.819 million (2017: Rupees 779.24 million) respectively.

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- 5.3 This represents re-lent portion of loan obtained by GoP from ADB for Distribution Enhancement Investment Program which is secured against the guarantee by GoP, pursuant to the re-lent agreement between GoP and the Company. Disbursements during the year of Rupees 30.495 million (2017: Rupees 41.044 million) have been transferred to the Company. This facility carries interest at the rate of 15% inclusive of reiending interest of 8.2% per annum plus exchange risk cover fee of 6.8% per annum which shall be charged both on principal amount and interest amount separately. Repayment of principal has to be made on half yearly basis within maximum period of 17 years excluding grace period of 3 years starting from June 2014. The overdue amount of principal and mark-up aggregate to Rupees 527.032 million (2017: Rupees 398.56 million) and Rupees 1,119.731 million (2017: Rupees 1,098.03 million) respectively.
- 5.4 This represents re-lent portion of loan obtained by GoP from ADB for Distribution Enhancement Investment Program which is secured against the guarantee by GoF, pursuant to the re-lent agreement between GoP and the Company. Disbursements during the year of Rupees 421.003 million (2017: Rupees 617.409 million) have been transferred to the Company. This facility carries interest at the rate of 15% inclusive of relending interest of 8.2% per annum plus exchange risk cover fee of 6.8% per annum which shall be charged both on principal amount and interest amount separately. Repayment of principal has to be made on half yearly basis within maximum period of 25 years including grace period of 5 years starting from June 2018. The overdue amount of principal and mark-up aggregate to Rupees 72.529 million (2017: Rupees Nil) and Rupees 572.174 million (2017: Rupees 541.808 million) respectively.
- 5.5 This represents re-ient portion of ican obtained by GoP from ADB for Distribution Enhancement Investment Program which is secured against the guarantee by GoP, pursuant to the re-lent agreement between GoP and the Company. Disbursements during the year of Rupees 569.508 million (2017: 1,271.303 million) have been transferred to the Company. This facility carries interest at the rate of 15% inclusive of relending interest of 8.2% per annum plus exchange risk cover fee of 6.8% per annum which shall be charged both on principal amount and Interest amount separately. Repayment of principal will be started from June 2019 and will be repaid on half yearly basis within maximum period of 25 years including grace period of 5 years.
- 5.6 This represents a loan obtained from the GoP under "Prime Minister's Southern Punjab Development Package" for construction of new grid stations and laying transmission lines. The limit of the loan facility is Rupees 1,228 million. As per instructions of the Finance Division of GoP for loan disbursements, the interest shall be chargaable at a prevailing rate of interest for respective year, which has been assessed as 17% per annum by the Company. Repayment of principal has to be made on yearly basis within maximum period of 20 years including grace period of 5 years starting from June 2015. The eventue amount of principal and mark up aggregate to Rupees 159.410 million (2017: Rupees 159.41 million) and Rupees 660.560 million (2017: Rupees 691.45 million) respectively.
- 5.7 These include Rupees 61.11 million (2017: Rupees 80.56 million) interest free loan from RYK Mills Limited under an agreement to meet expenses for grid interconnection and framework for Power Co-Generation 2013 (Bagasse/Biomass). The loan is repayable in 36 equal monthly installments commencing after 16 months of commercial operation date of the project which is 21 March 2015. The overdue amount of principal aggregate to Rupees 16.667 million (2017: Rupees Nil).
- 5.8 These include Rupees 9.47 million (2017: Rupees 17.22 million) interest free loan from JDW Sugar Mills Limited under an egreement to meet expenses for grid interconnection and framework for Power Co-Generation 2013 (Bagasse/Biomass). The loan is repayable in 36 equal monthly installments commencing after 18 months of commercial operation date of the project which is 12 June 2014. The overdue amount of principal aggregation Rupees 4.306 million (2017: Rupees 1.72 million).
- 5.9 These include two interest free loans of Runees 24.59 million (2017: Rupees 26.039 million) and Rupees 20 million (2017: Rupees 20 million) from Hamza Sugar Mills Limited under an agreement to most expension for grid interconnection and tramework for Power Co-Generation 2013 (Bagasse/Biomass). Loan No. 1 is repayable in 36 equal monthly installments commencing after 18 months of commercial operation date of the project which is 01 March 2016. The overdue amount of principal aggregate to Rupees 5.063 million (2017: Rupees Nil). Loan No. 2 is repayable in 36 equal monthly installments commencing after 36 months of commercial operation date of the project which has not yet been assessed.
- 5.10 These include Rupees 55 million (2017: Rupees 55 million) interest free loan from The That Industries Corporation Limited under an agreement to meet expenses for grid interconnection and framework for Power Co-Generation 2013 (Bagasse/Biomass). The loan is repayable in 36 equal monthly installments commencing after 18 months of commercial operation date of the project which has not yet been assessed.
- 5.11 The fair value adjustment in accordance with the requirements of IAS 39 'Financial Instruments: Recognition and Measurement' arising in respect of the loans given in Notos 5.7 to Note 5.10 is not considered material and hence not recognized.

| 5, | STAFF RETIREMENT BENEFITS                                                                                                        | 2019<br>Rupees                                                    | 2017<br>RUPEES                                                    |
|----|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|
|    | Free medical benefits (Note 6.1)<br>Pension (Note 6.1)<br>Free electricity benefits (Note 6.1)<br>Composited absences (Note 6.1) | 4,493,494,423<br>60,148,562,987<br>2,573,361,784<br>3,178,735,078 | 3,354,973,045<br>47,278,337,451<br>3,364,975,998<br>2,584,785,883 |
|    |                                                                                                                                  | 70,394,154,272                                                    | 56,593,072,377                                                    |

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# 6.1 Movement in the net liabilities recognized in the statement of financial position is as follows:

|                                                                            | 30 June 2018             |                                  |                              |                         |                                  |  |
|----------------------------------------------------------------------------|--------------------------|----------------------------------|------------------------------|-------------------------|----------------------------------|--|
|                                                                            | Free medical<br>cenefits | Pension                          | Free electricity<br>benefits | Compensated<br>absences | Total                            |  |
|                                                                            | RUPEES                   | RUPEES                           | RUPEES                       | RUPEES                  | RUPEES                           |  |
| Balance as at 01 July 2017                                                 | 3,364,973,045            | 47.278,337.451                   | 3,354,975,999                | 2,584,735,883           | 56,593,072,377                   |  |
| Charge for the year (Note 6.2)<br>Remeasurement recognized in statement of | 404,524,927              | 4,964.923,540                    | 362,005,235                  | 313,968,052             | 6,350,418,754                    |  |
| comprehensive income (Note 5.3)                                            | 736.048,374              | 11,246,270,407                   | (1,066,291,961)              | -                       | 10,918,025,850                   |  |
| Benefits paid<br>Fund contribution                                         | (12.051,922)             | (2,338,891,608)<br>(456,073,833) | (87,327,483)<br>-            | (225,018,957)<br>-      | (3,211,289,876)<br>(456,073,833) |  |
| Balance as at 30 June 2016                                                 | 4,193 494,423            | 60.148,562,987                   | 2.573.361,734                | 3,178,735.078           | 70,394,154,272                   |  |

|                                          | 30 June 2017          |                 |                              |                         |                 |
|------------------------------------------|-----------------------|-----------------|------------------------------|-------------------------|-----------------|
|                                          | Free medical benefits | Pension         | Free electricity<br>benefits | Compensated<br>absences | Total           |
|                                          | PUPESS                | RUPEES          | RUPEES                       | RUPEES                  | RUPEES          |
| Balance as at 01 July 2016               | 2 290.101,447         | 35,519,209,613  | 2,850,264,752                | 2,050,896,152           | 43,010.531,974  |
| Charge for the year (Note 6.2)           | 322.556.343           | 3 569,225,48 (  | 335,740,278                  | 701,829,491             | 1,930,382,596   |
| Remeasurement recognized in statement of |                       |                 | - /                          |                         |                 |
| comprehensive income (Note 6.3)          | 463,636,398           | 10,740,934,240  | 251,897.020                  |                         | 11,466,417,658  |
| Benefits paic                            | (11.411.143)          | (2,197,853,781) | (83,925.062)                 | (167,939,760)           | (2,461,130,746) |
| Fund contribution                        | -                     | (253,129,125)   |                              |                         | (355,129,105)   |
| Balance as at 30 June 2017               | 3,364,973,045         | 47.278.337.451  | 3,364,975,998                | 2.584,785,883           | 56,593,072.377  |

### 6.1.1 The amount of pension obligation recognized in the statement of financial position is as follows:

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|                                                                          | 2018<br>Rupees                    | 2017<br>RUPEE <b>S</b>          |
|--------------------------------------------------------------------------|-----------------------------------|---------------------------------|
| Present value of defined benefit obligation<br>Fair value of plan assets | 61,362,143,336<br>(1,213,580,349) | 47,450,125,065<br>(171,789,514) |
|                                                                          | 50,148,562.987                    | 47,278,337.451                  |

### 6.2 Amounts recognized in the statement of profit or loss against defined benefit schemes are:

|                         |                          | *             | 30 June 2018*             | ·                    |                |
|-------------------------|--------------------------|---------------|---------------------------|----------------------|----------------|
|                         | Free medical<br>Senefits | Pension       | Pree electricity benefits | Compensated absences | Total          |
|                         | RUPEES                   | RUPEES        | RUPEES                    | RUPEES               | RUPEES         |
| Current service cost    | 93.322,322               | 746,286,478   | 54,783,352                | 47,957,060           | 942,849,712    |
| Interest cost           | 310,702,685              | 4,218,534,062 | 307,221,383               | 228,685,572          | 5,065,243,622  |
| Actuarial losses        | -                        |               | -                         | 542,325,420          | 542,325,420    |
| Net charge for the year | 404.524,927              | 4.964,920,540 | 362.005,235               | 818,968,052          | 6.550,418,754  |
|                         |                          |               | 30 June 2017              | <u></u>              |                |
|                         | tree medical<br>benefits | Pension       | Free electricity          | Compensated          | Total          |
|                         | RUPFES                   | DIDEES        | nunceç                    | NUPECO               | KUFLLS         |
| Current service cost    | adi044ia ta              | 427,501,010   | 00,000,122                | 39,331,139           | /00,521,423    |
| Interest cost           | 232,501,029              | 3,081,904.635 | 252,747,156               | 177,023,364          | 3,7-11,306,105 |
| Actuarial losses        | •                        |               |                           | 485,454,988          | 485,454,988    |
| Net charge for the year | 322,536,343              | 3.569.226,484 | 335,740,278               | 701.829.491          | 4,930,382,596  |

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Remeasurement recognized in statement of comprehensive income:

|                        |                                                                                                                |                | 30 June 2018                                        | ······································                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|----------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | Free medical<br>benefits                                                                                       | Pension ·      | Free electricity<br>benefits                        | Compensated<br>absences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                        | RUPEES                                                                                                         | RUPEES         | RUPEES                                              | RUPEES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RUPEES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Less on obligation     | 735.048,374                                                                                                    | 11,797,004,477 |                                                     | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12,533.052,851                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| (Gain) on obligation   | •                                                                                                              | -              | (1,066,291,961)                                     | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (1.066.291.961)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| (Gain) on plan assets  | •                                                                                                              | (548,734,040)  |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (548,734,040)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Experience adjustments | 736,048,374                                                                                                    | 11,248,270,437 | (1,066,291,961)                                     | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10,918,025,850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                        |                                                                                                                |                | 30 June 2017                                        | ·······                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                        | Free medical<br>benefits                                                                                       | Pension        | Free electricity<br>benefits                        | Compensated absences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                        | RUPEES                                                                                                         | RUPEES         | RUPEES                                              | RUPEES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | RUPEES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Loss on obligation     | 463,636,398                                                                                                    | 10,297.055,741 | 261,897,020                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 11,022,589,159                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Loss on plan assets    |                                                                                                                | 440,828,499    | -                                                   | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 443,828,499                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Experience adjustments | 463,636,398                                                                                                    | 10,740,884,240 | 261.597.020                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11,465,417,658                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                        | Statistics of the second second second second second second second second second second second second second s |                | S MARLAND AND CONTRACTOR OF A CONTRACTOR CONTRACTOR | Sand State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State o | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se |

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Reconciliation of present value of defined benefit obligations:

|                              |                          | 30 June 2018    |                              |                         |                 |  |
|------------------------------|--------------------------|-----------------|------------------------------|-------------------------|-----------------|--|
|                              | Free medical<br>benefits | Pension         | Free electricity<br>benefits | Compensated<br>absences | Total           |  |
|                              | RUPEES                   | RUPEES          | RUPEES                       | RUPEES                  | RUPEES          |  |
| Balance as at 01 July 2017   | 3.354.973.045            | 47.278.337.451  | 3 364.975 998                | 2 584 785 883           | 56 503 077 777  |  |
| Jurrent service cost         | 93,822,322               | 745,286,478     | 54,783,852                   | 47.957.060              | 942,849,712     |  |
| nterest cost                 | 310,702,505              | 4,218,534,052   | 307.221.383                  | 228.685.572             | 5.065 243.622   |  |
| enefits paid during the year | (12,051,923)             | (2,886,891,608) | (87,327,483)                 | (225,018,857)           | (3,211,289,876) |  |
| lemeasurement                | 736,048,374              | 11,248,270,437  | (1,066,291,951)              |                         | 10.918.026.850  |  |
| Actuarial losses             |                          | -               |                              | 542,325,420             | 542,325,420     |  |
| and contribution             | •                        | (456,073,833)   | -                            | ,,                      | (456,073,833)   |  |
| Balance as at 30 June 2019   | 4,493,494,423            | 60,148,562,987  | 2,573,351,784                | 3,178,735,078           | 70,394,154,272  |  |

|                                                                                                                                                                  | 30 June 2017                                                              |                                                                                                      |                                                                           |                                                                                 |                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                  | Free medical<br>benefits                                                  | Pension                                                                                              | Free electricity<br>benefits                                              | Compensated absences                                                            | Total                                                                                                               |
|                                                                                                                                                                  | RUPEES                                                                    | RUPEES                                                                                               | RUPEES                                                                    | RUPEES                                                                          | RUPEES                                                                                                              |
| Balance as at 01 July 2016<br>Current service cost<br>Interest cost -<br>Benefits paid during the year<br>Remeasurement<br>Actuarial losses<br>Fund contribution | 2,590,161,447<br>89,985,314<br>232,501,029<br>(11,411,143)<br>463,636,398 | 35,519,209,613<br>487,291,843<br>3,081,934,636<br>(2,197,853,761)<br>10,740,384,240<br>(353,129,105) | 2,850,264,762<br>83,993,122<br>252,747,156<br>(83,926,662)<br>261,897,020 | 2,050,996,152<br>39,351,139<br>177,023,354<br>(167,939,760)<br>-<br>485,454,988 | 43,010,531,974<br>700,621,423<br>3,744,306,185<br>(2,461,130,746)<br>11,466,417,658<br>485,454,988<br>(353,129,105) |
| Balance as at 30 June 2017                                                                                                                                       | 3,364,973.045                                                             | 47,278,337,451                                                                                       | 3.364,975,998                                                             | 2,584,785,883                                                                   | 56,593,072,377                                                                                                      |

All of the investment of plan assets is in deposit account of a commercial bank.

# 6.6 The principal actuarial assumptions at the reporting date were as fellows:

|                                                                                            | 30 June 2018             |                |                              |                         |  |
|--------------------------------------------------------------------------------------------|--------------------------|----------------|------------------------------|-------------------------|--|
|                                                                                            | Free medical<br>benefits | Pension        | Free electricity<br>benefits | Compensated<br>absences |  |
|                                                                                            | 10.00%                   | 10.000         | 10.000                       | 10.00%                  |  |
| Discount rate (per annunt)                                                                 | 10.00%                   | 10.00%         | 10.00%                       | 10.0070                 |  |
| Inflation rate (per annum)                                                                 | -                        | •              | 8.00%                        | •                       |  |
| Annual medical claim - Rupees                                                              | 11,957                   | -              | -                            | -                       |  |
| Salary increase rate used for year end obligation (per annum)                              | -                        | 9.50%          | -                            | 9.50%                   |  |
| Weighted average duration of the benefit                                                   | 19 Years                 | 13 Years       | 17 Years                     | 8 Years                 |  |
| Medical / pension / electricity indexation rate                                            | 10.00%                   | 3.75%          | -                            | -                       |  |
| Hedical exposure rate (per annum)                                                          | 10,0000                  |                | -                            | -                       |  |
| Mortality rates                                                                            | SLIC 2001-2005           | SLIC 2001-2005 | SLIC 2001-2005               | SLIC 2001-2005          |  |
|                                                                                            | setback 1 year           | setback 1 year | setback 1 year               | setback 1 year          |  |
| Withdrawai rates                                                                           | Lew                      | tow            | Low                          | 1 000                   |  |
| Expected unlige to the statement of promition loss for the next<br>financial year (Rupees) | 570,707,523              | 7,028,086,935  | 303,290,471                  | 371,997,313             |  |

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|                                                               |                          | <b>3</b> 0 Jun | e 2017                       |                         |
|---------------------------------------------------------------|--------------------------|----------------|------------------------------|-------------------------|
|                                                               | Free medical<br>benefits | Pension        | Free electricity<br>benefits | Compensated<br>absences |
| Discount rate (per annum)                                     | 0.35%                    | 0 7504         | 0.7504                       | o iro:                  |
| Inflation rate                                                | J . Ka . J 10            | 554CJ /0       | 7.2378                       | 9.2070                  |
| Apoual medical claim - Runger                                 | 0.000                    | •              | 1.25%                        | •                       |
| Annau medicar dant - Kapega                                   | 9,000                    | *              | -                            | •                       |
| Salary increase rate used for year end obligation (per annum) | -                        | 8.25%          | · •                          | 8.25%                   |
| Weighted average duration of the benefit                      | 13 Years                 | 13 Years       | 13 Years                     | 13 Years                |
| Medical / pension / electricity indexation rate               | 9.25%                    | 2.50%          |                              |                         |
| Medical exposure rate (per annum)                             | 9.25%                    | _              |                              |                         |
| Mortality rates                                               | SUIC 2001-2005           | SLTC 2001-2005 | SLTC 2001-2005               | SHTC 2001-2005          |
|                                                               | setback 1 year           | setback 1 year | setback 1 year               | setback 1 year          |
| Withdrawal rates                                              | Law                      | Inw            | Low                          | Lovi                    |
| Expected charge to profit and loss account for the next       |                          |                | LON                          |                         |
| financiai year (Rupees)                                       | 405,082,329              | 5,119,532,692  | 366,021,801                  | 273,853,442             |
|                                                               |                          |                |                              |                         |

### 6.7 Sensitivity analysis for actuarial assumptions:

The sensitivity of the staff retirement benefits as at reporting date to changes in the weighted principal assumption is:

Discount rate Increase in assumption (Rupees) Decrease in assumption (Rupees)

I

CE

Medical exposure rate Increase in assumption (Rupees) Decrease in assumption (Rupees)

Medical inflation rate Increase in assumption (Rupees) Decrease in assumption (Rupees)

Withdrawal rates Increase in assumption (Rupees) Decrease in assumption (Rupees)

Future salary increase Increase in assumption (Rupees) Decrease In assumption (Rupees)

Indexation rate Increase in assumption (Rupees) Decrease in assumption (Rupees)

Mortality setback Increase in assumption (Rupees) Decrease in assumption (Rupees)

Discount rate Increase in assumption (Rupees) Decrease in assumption (Rupees)

neuleal exposure rate Increase in assumption (Rupees) Decrease in assumption (Rupees)

Medical inflation rate Increase in assumption (Rupees) Decrease in assumption (Rupees)

Withdrawal rates Increase in assumption (Rupees) Decrease in assumption (Rupees)

Future salary increase Increase in assumption (Rupees) Decrease in assumption (Rupees)

Indexation rate Increase in assumption (Popose)

Decrease in assumption (Rupees)

Increase in assumption (Rupees) DUCTEdSE IN ASSUMPTION (Rupees)

|                                        | 30 Jun                                    | e 2018                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------|-------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Free medical benefits                  | Pension                                   | Free electricity benefits             | Compensated<br>absences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1.00%<br>(739,090,744)<br>972,502,717  | 1.00%<br>(5,668,370,813)<br>9,688,952,358 | 1.00%<br>(374,283,853)<br>481,469,615 | 1.00%<br>(341,561,744)<br>180,190,587                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1.00%<br>325,851,488<br>(280,835,058)  | -<br>-<br>-                               | -<br>-<br>-<br>-<br>-                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1.00%<br>694,680,454<br>(507,244,392)  | -                                         |                                       | - 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- 1997<br>- |
| 10.00%<br>(5,951,780)<br>6,998,545     | 10.00%<br>1,180,196,379<br>1,247,158,799  | 10.00%<br>(1,498,864)<br>1,507,606    | 10.00%<br>(96,969,622)<br>(103,049,615)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| •                                      | 1.00%<br>4,275,993,190<br>(1,480,456,239) | -<br>                                 | 1.00%<br>194,120,900<br>(357,633,479)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| •                                      | 1.00%<br>6,848,759,303<br>(3,619,335,420) | 1.00%<br>494,214,373<br>(388,529,766) | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| t year<br>(173,935,929)<br>174,016,715 | 1 year<br>1,349,030,787<br>1,083,070,311  | · · ·                                 | 1 year<br>(101,885,477)<br>(98,122,586)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                        | 30 June                                                                           | 2017                                                                         |                                       |
|----------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------|
| Free medical benefits                  | Pension                                                                           | Free electricity<br>benefits                                                 | Compensated<br>absences               |
| 1.00%<br>(589,515,691)<br>790,204.064  | 1.00%<br>(5,084,885,068)<br>6,543,450,570                                         | 1.00%<br>(523,700,684)<br>¢66,616,101                                        | 1.00%<br>(190,192,536)<br>220,048,537 |
| 1.00%<br>505,307,340<br>(411,238,607)  | -                                                                                 |                                                                              | - 4                                   |
| 1.0076<br>505,307,340<br>(411,238,607) | -                                                                                 | -                                                                            | 14.<br>14.                            |
| 10.00%<br>(5,474,401)<br>5,514,231     | 10.00%<br>148,333,903<br>195,392,934                                              | 10.00%<br>(1,893,499)<br>1,905,542                                           | 10.00%<br>3,109,277<br>(3,128,356)    |
| -                                      | 1.00%<br>2,460,489,780<br>(1,842,719,692)                                         | -                                                                            | 1.00%<br>232,697,624<br>(204,282,790) |
| 1 903r<br>4,654,792<br>(4,050,492)     | 1.00%<br>4,573,859,012<br>(2,500,020,027)<br>1 vear<br>208,860,283<br>130,223,122 | 1,0994<br>515,223,480<br>(415,235,459)<br>1 year<br>(3,499,134)<br>3,101,020 | ( vear<br>(2,269,087)<br>2,259,231    |

The sensitivity analysis is based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. When calculating the sensitivity of the staff retirement benefits to significant actuarial assumptions, the same method (present value of the staff retirement benefits calculated with the projected unit credit method at the end of the reporting period) has been applied as when calculating the gratuity liability recognized within the statement of financial position.

The methods and types of assumptions used in preparing the sensitivity analysis were changed as compared to the previous year due to downward trend in interest rate structure and increase in initialionary expectations.

### 6.8 Historical information:

|                                        | 2018<br>Rupees  | 2017<br>RUPEES | 2016<br>RUPEES | 2015<br>RUPEES | 2014<br>RUPEES |
|----------------------------------------|-----------------|----------------|----------------|----------------|----------------|
| Present value of defined benefit oblig | ation of :      |                |                |                |                |
| Free medical benefits                  | 4,493,494,423   | 3,364,973,045  | 2,590,161,447  | 1,883,031,024  | 1,410,759,220  |
| Pension                                | 60,148,562,987  | 47,278,337,451 | 35,519,209,613 | 24,608,307,733 | 19,811,698,219 |
| Free electricity benefits              | 2,573,361,784   | 3,364,975,998  | 2,850,264,762  | 1,906,856,545  | 1,605,475,611  |
| Compensated absences                   | 3,178,735,078   | 2,594,785,883  | 2,050,895,152  | 1,482,550,166  | 1,271,506,881  |
| Remeasurement (gain) / loss on obli    | gation of:      |                |                |                |                |
| Free medical benefits                  | 736,048,374     | 463,636,398    | 443,132,973    | 58,179,514     | 44,183,75      |
| Pension                                | 11,248,270,437  | 10,740,884,240 | 6,834,840,531  | 1,148,182,436  | 1,971,882,592  |
| Free electricity bonefits              | (1,066,291,961) | 261,897,020    | 765,945,452    | (85,664,673)   | (281,334,056)  |
| Compensated absences                   | 542,325,420     | 485,454,988    | 541,022,360    | 39,383,961     | •              |

### 6.9 Risks associated with staff retirement benefits

### Longevity risks

The risk arises when the actual lifetime of retirees is longer than expectation. This risk is measured at the plan level over the entire retiree population.

#### Salary increase risk

The most common type of retirement benefit is one where the benefit is linked with final salary. The risk arises when the actual increases are higher than expectation and impacts the liability accordingly.

### Withdrawal risk

The risk of actual withdrawals varying with the actuarial assumptions can impose a risk to the benefit obligation. The movement of the liability can go either way.

### 7. LONG TERM SECURITY DEPOSITS

These represent security deposits received from consumers on account of electricity connections. These are refundable / adjustable on disconnection of electricity supply.

| RECEIPT AGAINST DEPOSIT WORKS                            | 2018<br>RUPEES | 2017<br>RUPEES |
|----------------------------------------------------------|----------------|----------------|
| Consumers demand notices awaiting connections (Note 8.1) | 3,137,958,562  | 1,683,910,520  |
| Funds received against deposit works (Note 8.2)          | 17,341,431,416 | 15,709,951,889 |
|                                                          | 20,479,389,978 | 17,393,862,409 |

These represent amounts received from consumers through demand notices against which the related works / jobs have not been completed.

These represent amounts received directly by the Company for electrification of villages, colonies and other deposit works, mainly provided through Government funding against which the related works / jobs have not been completed.

### DEFERRED CREDIT

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| Balance as at 01 July<br>Addition during the year                        | 66,819,350,092 61,177,065,020<br>6,222,629,848 5,642,285,072<br>73,041,979,940 66,819,350,092 |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Less: Amortization<br>Balance as at 01 July<br>Amortization for the year | 19,499,525,221 17,285,996,611<br>2,400,158,345 2,213,528,610                                  |
|                                                                          | 21,904,683,566 19,499,525,221                                                                 |
| Balance as at 30 June                                                    | 51,137,296,374 47,319,824,871                                                                 |

This represents the capital contributions received from consumers and the Government against which assets are constructed by the Company.

|      |                                                                          | 2018<br>RUPEES                        | 2017<br>RUPEES |
|------|--------------------------------------------------------------------------|---------------------------------------|----------------|
| 10.  | TRADE AND OTHER PAYABLES                                                 |                                       | Restated       |
|      | Creditors                                                                | 3,203,495,842                         | 1,584,031,062  |
|      | Equalization surcharge payable                                           | 2,235,374,934                         | 2,224,023,230  |
|      | Due to associated companies (Note 10.1)                                  | 101,790,108,312                       | 38,076,424,958 |
|      | Accrued liabilities                                                      | 1,174,052,095                         | 493,881,354    |
|      | Retention money payable                                                  | 563,767,237                           | 614,602,026    |
|      | Electricity duty payable                                                 | 345,118,648                           | 104,102,843    |
|      | Neelum Jhelum surcharge payable                                          | 316,427,013                           | 252,638,133    |
|      | T.V. license fees payable                                                | 134,570,821                           | 110,611,870    |
|      | Financing cost surcharge                                                 | 1,417,987,078                         | 1,260,766,310  |
|      | Tariff rationalization surcharge                                         | 1,525,061,095                         | 1,637,898,803  |
|      | Compact Fluorescent Lamps cost payable (Note 10.2)                       | 807 <b>,373,6</b> 96                  | 807,373,696    |
|      | Workers' profit participation fund (Note 10.3)                           | 1,692,118,856                         | 1,692,118,855  |
|      | Other liabilities                                                        | 810,585,609                           | 1,077,806,480  |
|      |                                                                          | 116,046,041,236                       | 49,936,279,621 |
| 10.1 | Due to associated companies                                              |                                       |                |
|      |                                                                          | · · · · · · · · · · · · · · · · · · · |                |
|      | Central Power Purchasing Agency (Guarantee) Limited (CPPA) (Note 10.1.1) | 101,718,687,727                       | 38,006,344,668 |
|      | Hyderabad Electric Supply Company Limited (HESCO)                        | 507,081                               | •              |
|      | Gujranwala Electric Power Company Limited (GEPCO)                        | 20,527,141                            | 20,604,261     |
|      | Faisalabad Electric Supply Company Limited (FESCO)                       | 50,386,363                            | 49,476,029     |
|      |                                                                          | 101,790,108,312                       | 38.076,424,958 |

- 10.1.1 In the financial year 2015-16, the cost of electricity was erroneously charged which was rectified by CPPA on account of credit note numbers CPPAG/CEO/2017/Taxation/1703 dated 25 March 2017 and CPPAG/CEO/2017/Taxation/26684 dated 29 June 2017, of amount aggregating to Rupees 5,511.719 million as a result of revision of sales tax returns by CPPA for periods from July 2015 to November 2015 and from December 2015 to June 2016 respectively. This prior period error has been corrected retrospectively in these financial statements in accordance with IAS 8 'Accounting Policies, Changes in Accounting Estimates and Errors'. Consequently, accumulated loss and trade and other payables have been increased by Rupees 5,511.719 million.
- 10.2 During financial year 2013-14, the Company had received Compact Fluorescent Lamps (CFLs) from Pakistan Electric. Power Company (PEPCO) under the Clean Development Mechanism (CDM) Program of activities -"National CFL Project -Pakistan". CFLs cost will have to be borne by the Company from its distribution margin.
- 10.3 The Company has not made payment of its contribution towards Workers' Profit Participation Fund (WPPF), being the Company's liability on account of provision of Companies Profit (Workers' Participation) Act, 1968 uptill 30 June 2015. This matter is pending for decision with Economic Coordination Committee (ECC) upon recommendation submitted by WAPDA to exempt the undertakings established under the umbrella of WAPDA from compliance with the requirements of Companies Profit (Workers' Participation) Act, 1968. Due to pending decision with the ECC, no provision for mark-up is made as required under Companies Profit (Workers' Participation) Act, 1968. However, the Company has shown the mark-up as contingent liability under Note 12.1.3 to the financial statements.

|     |                                                               | 2018          | 2017                                   |
|-----|---------------------------------------------------------------|---------------|----------------------------------------|
| 11, | ACCRUED MARK-UP                                               | RUPEES        | RUPEES                                 |
|     | Foreign re-lent loans                                         | 1,159,892,650 | 188,010,605                            |
|     | Cash development loan                                         | 101,623,875   | 135,498,500                            |
|     | Overdue mark-up on foreign re-lent and cash development loans | 5,935,784,352 | 5,978,068,004                          |
|     |                                                               | 7,197,300,877 | 6,302,177,109                          |
| 12. | CONTINGENCIES AND COMMITMENTS                                 |               | ······································ |

# 12.1 Contingencies

12.1.1 Claims amounting to Rupees 19.64 million (2017: Rupees 46.15 million) relating to disconnections, detection bills and overbillings against the Company not acknowledged as debt.

12.1.2 The Company has received various invoices from CPPA representing late payment charges (supplementary charges) being the share of the Company in the mark-up charged to CPPA by Independent Power Producers (IPPs) on account of delayed payments aggregating to Rupees 14,089.28 million (2017: Rupees 12,446.89 million).

As mentioned in Para 18 of tariff determination by NEPRA communicated through letter no. NEPRA/TRF-283/MEPCO-2014/4264-4266 dated 27 March 2015 and Para 8.10 and 20 of tariff determination by NEPRA communicated through letter no. NEPRA/TRF-332/MEPCO-2015/2697-2699 dated 29 February 2016, it was mutually agreed by the representatives of CPPA and distribution companies that, as per clause 9.3(d) of electricity supply agreement dated 29 June 1998 between DISCOs and NTDC, the DISCOs are obliged to pay late payment charges (supplementary charges) to CPPA on account of delay payments of invoices.

NEPRA has decided that the late payment charges (supplementary charges) recovered from consumers on utility bills shall be offset against the late payment charges (supplementary charges) invoices raised by CPPA and CPPA cannot account for late payment charges (supplementary charges) over and above what is calculated as per agreement. Therefore, no provision for late payment charges (supplementary charges) of Rupees 12,446.89 million have been recognized in these financial statements as the management is of the view that supplementary charges have not been allowed as expense by NEPRA in tariff determination.

12.1.3 The Companies Profit (Workers' Participation) Act, 1963 requires payment of the allocated amount to the workers profit participation fund within nine months of the close of relevant financial year. However, due to pending decision of the Economic Coordination Committee to exempt the corporatized entities under the umbrella of WAPDA from requirement of the said Act, no provision for interest aggregating to Rupees 1,117.12 million (2017: Rupees 885.16 million) or unpaid amount has been recognized by the Company in these financial statements.

## 12.1.4 Income Tax

- (i) Additional Commissioner Inland Revenue amended the deemed assessments under section 120 of the Income Tax Ordinance, 2001 (the Ordinance) by passing an order under section 122(5A) of the Ordinance on the grounds that the minimum tax liability under section 113 was not discharged. He passed the orders vide DCR No. 10/07 dated 02 February 2015 and 19/18 dated 14 April 2015 for tax years 2010 and 2013 and created a demand of Rupees 5.63 million for the Tax Year 2010 and Rupees 109.82 million for the Tax Year 2013. Being aggrieved from the impugned orders, the Company filed appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 05 May 2015 and the same was upheld by the Learned CIR(A). Appeal against the orders of CIR(A) has been filed with the Appellate Tribunal Inland Revenue on 19 October 2015 which is pending for adjudication.
- (ii) Inland Revenue Audit Officer issued an order on 28 April 2014 under section 161 and 205 of the Ordinance raising a demand aggregating to Rupees 307 million for tax year 2013, on grounds that the Company has made a tax deduction under section 235 of the Ordinance on sales of electricity without including sales tax. Being aggrieved, an appeal was files before Commissioner Inland Revenue (Appeals) (CIR(A)) and same was upheld by the Learned CIR (A). Second appeal was filed before Appellate Tribunal Inland Revenue who upheld the orders of CIR(A). Being aggrieved with both forums the Company filed a writ petition with the Honorable Lahore High Court, Lahore on 12 April 2018 against the said orders. Now the proceeding is pending before Honorable Lahore High Court, Lahore.
- (iii) Inland Revenue Audit Officer passed an order no. DCR 01/54 dated 12 November 2007 for the tax year 2007 under Section 161 and 205 of the Ordinance creating a demand amounting to Rupees 10.22 million as default surcharges on grounds that withholding tax was not timely deducted by the Company on payments to certain parties. Being aggrieved an appeal was filed with Commissioner Inland Revenue (Appeals) (CIR(A)) and same was upheld by the Learned CIR (A). Against the orders of Learned CIR(A), second appeal was filed before Appellate Tribunal Inland Revenue. The matter is pending for adjudication.
- (iv) Additional Commissioner Inland Revenue (ACIR) passed the orders vide 92/10 dated 26 February 2009 under Section 113 of the Ordinance and charged income tax on turnover for the tax year 2007 amounting to Rupees 153 million and for the tax year 2008 Rupees 72 million along with default surcharge of Rupees 9.9 million and Rupees 2 million respectively. Being aggrieved from the impugned orders, the Company filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) and the same was upheld by the Learned CIR(A). Subsequently appeal against the orders of CIR(A) was filed with the Appellate Tribunal Inland Revenue (ATIR) or 14 May 2009 who upheld the orders of CIR (A). Being aggrieved with both forums writ petition is filed before Honorable Lahore High Court, Lahore vide petition no. PTR 43/2011 and PTR 44/2011. The Honorable Lahore High Court, Lahore remanded back the case to the full bench of ATIR, which is pending for adjudication.
- (v) Additional Commissioner Inland Revenue amended the deemed assessment under section 122(5A) of the OrdInance for the tax year 2014 vide bar code no.10000008089093 dated 12 November 2015 on ground that the minimum tax liability under section 113 was not discharged and thereby raised a demand of Rupees 1,736 million. Being aggrieved an appeal was filed with Commissioner Inland Revenue (Appeals) on 03 December 2015 who upheld the said order and subsequently another appeal has been filed with Appellate Tribunal Inland Revenue on 05 April 2016, which is pending for adjudication.

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- (vi) The Inland Revenue Audit Officer made an assessment under sections 124, 162(1) and 205 of the Ordinance vide no. 10/62 dated 24 June 2015 for Tax Year 2010, 2011 and 2012 wherein he raised demand amounting to Rupees 52.906 million treating service fee for the collection of Pakistan Television (PTV) license fees as commission rather than as service fee. In this regard, an appeal has been filed before the Learned Commissioner Inland Revenue (Appeals) on 11 August 2015 which is decided in favor of the Company vide orders dated 29 March 2016 and case was remanded back to the concerned IRAO / Assistant Commissioner Inland Revenue (ACIR) with direction to recalculate the service fee according to the agreement between WAPDA and PTV. The said appeal is pending for adjudication before the Learned ACIR.
- (vii) Additional Commissioner Inland Revenue passed the order for tax year 2015 that the Company was liable to pay Rupees 893 million being higher of minimum tax under section 113 and 113 (C) of the Ordinance. The assessment already finalized under section 120(1) of the Ordinance, therefore, being erroneous in so far as prejudicial to the interest of revenue, is amended under section 120(1) of the Ordinance. Being aggrieved from the impugned order, the Company filed appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) and same was upheld by the learned CIR(A). Appeals against the orders of CIR(A) has been filed with the Appellate Tribunal Inland Revenue on 17 January 2017, which are pending for adjudication.
- (viii) Assistant Commissioner Inland Revenue passed the order under section 122(1) of the Ordinance vide 14/39 dated 22 June 2017 for the tax year 2011 that the Company was liable to pay Rupees 226 million due to violation of certain provisions of Ordinance. Being aggrieved from the impugned order, the Company filed appeal before the Commissioner Inland Revenue (Appeals) on 07 July 2017 which is pending for adjudication.
- (ix) Assistant Commissioner Inland Revenue started proceedings for amendment of assessment under section 122 of the Ordinance on 17 January 2018. By ignoring all submissions, the Learned ACIR issued an order vide bar code no. 100000032291023 dated 13 Anril 2018 raising a demand of Rupees 1,294 million. Being aggrieved, the Company filed appeal before Commissioner Inland Revenue (Appeals) (CIR (A)) on 11 May 2018. The matter is pending for adjudication before CIR (A).
- (x) Assistant Commissioner Inland Revenue issued an order vide bar code no. 100000026203200 dated 09 November 2017 under section 161 of the Ordinance and raised a demand of Rupees 191 million along with default surcharge of Rupees 13 million on the grounds that the Company failed to deduct income tax while making payment to certain parties. Being aggrieved with the orders the Company has filed an appeal before Commissioner Inland Revenue (Appeals) on 13 December 2017, the proceeding of which is pending.
- (xi) The Inland Revenue Audit Officer (IRAO) started proceedings under sections 161 and 205 of the Ordinance regarding discharging of liability to deduct income tax on different heads of account. By ignoring all submissions the Learned IRAO issued an order vide no. 10/47 dated 21 October 2013 and raised a demand of Rupees 718 million along with default surcharge of Rupees 161 million. Being aggrieved, the Company filed appeal before Commissioner Inland Revenue (Appeals) (CIR (A)) on 19 November 2013. The Learned CIR (A) issued an order dated 24 February 2014 and confirmed the demand of Rupees 379 million. A second appeal was filed before Appellate Tribunal Inland Revenue on 11 June 2014 who upheld the orders of CIR (A). Being aggrieved with both forums a writ petition vide tax reference no. 27 of 2014 was filed before Honorable Lahore High Court. Labore whe doulded the design of Honorable Lahore of Rupees 301 million. To give effect to the judgment to decision of Honorable Lahore High Court, Labore of Rupees 66 million. Being aggrieved, further appeal was filed before and raised a demand of Rupees 78 million along with default surcharge of Rupees 66 million. Being aggrieved, further appeal was filed before Company and default undefault surcharge of Rupees 66 million. Being aggrieved, further appeal was filed before CIR (A) on 15 December 2017 which is pending for adjudication.
- (xii) Assistant Commissioner Inland Revenue issued an order under section 161 of the Ordinance vide bar code no. 100000028613889 dated 04 January 2018 on the grounds that income tax was not deducted by the Company while making payment to certain parties during the tax years 2012 to 2015 and raised a demand of default surcharge of Rupees 277 million. Being aggrieved by the orders, an appeal was filed before Commissioner Inland Revenue (Appeals) (CIR (A)) on 01 February 2018. The Learned CIR (A) decided the case vide orders dated 24 April 2018 in favor of the Company by accepting the two contentions out of four. A second appeal was filed before Appellate Tribunal Inland Revenue for two contentions rejected by the Learned CIR (A), the proceedings of which is pendino.

Aggregate provision of Rupees 5,496.48 million regarding the cases stated in paragraph numbers 12.1.4(I) to 12.1.4(XII) has not been accounted for in the books of account of the Company as in the opinion of tax advisor, the favorable outcome of these cases is expected.

### Sales Tax:

- (xiii) The Deputy Commissioner Inland Revenue (DCIR) has passed an order against the Company dated 19 December 2012 by treating the "Subsidy" aggregating to Rupees 24,739.75 million during the period from July 2010 to June 2011 as taxable supplies under the Sales Tax Act, 1990 (the Act) and also taxed unexplained differences amounting to Rupees 925.29 million and raised a demand of Rupees 4,363.05 million. Being aggreeved by the order, the Company filed an appeal before the Commissioner Inland Revenue (Appeals) who upheld the order of DCIR, afterwards second appeal was filed before the Appellate Tribunal Inland Revenue (ATIR) and vide its order number STA 247/LB/2013 dated 19 December 2014 the point of unexplained income was remanded back to DCIR and matter of subsidy was upheld against which the Company filed a writ petition before Henorable Lahore High Court, Lahore on 25 May 2018 who remanded back the case to the full bench of ATIR to decide the case which is still pending for adjudication.
- (xiv) The Deputy Commissioner Inland Revenue (DCIR) passed the order vide no. 21/2016 dated 02 May 2016 thereby alleging that the Company has paid less amount of sales tax withheld of Rupees 691.82 million for tax periods July 2014, August 2014, January 2015 and April 2015 in violation of sections 3(1)(A) of the Act. Against the said order of DCIR, the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) who upheld the orders of DCIR. Afterwards, second appeal was filed before the Appellate Tribunal Inland Revenue who remanded back the case to DCIR vide order dated 18 April 2018. Now the case is pending for adjudication before DCIR.
- (xv) The Deputy Commissioner Inland Revenue (DCIR) has passed the order vide no. 20/2016 dated 02 May 2016 alleging that the Company has not charged and paid cales tay on supplies to retailers amounting Ruppes 22.27 million during the tax periods of July 2014 and August 2014 and has directed the Company to deposit the same along with default surcharge and penalty of Ruppes 1.11 million. The Company has filed an appeal before the Commissioner Inland-Revenue (Appeals) (CIR(A)) who upheld the orders of DCIR on 27 March 2016. Being aggrieved, the Company has filed an appeal before Appellate Tribunal Inland Revenue who remanded back the case to DCIR vide order dated 18 April 2018. Now the case is pending for adjudication before the Learned DCIR.
- (xvi) The Deputy Commissioner Inland Revenue (DCIR) has passed the order vide no. 09/2016 dated 15 April 2016 alleging that the Company has not charged and paid sales tax amounting to Rupees 23 million from retailers during the month of October 2015 and has directed it to deposit the same along with default surcharge and penalty of Rupees 1.160 million. Against the orders of DCIR an appeal has been filed before the Commissioner Inland Revenue (Appeals) (CIR(A)) and CIR(A) has confirmed the orders of DCIR. Being aggrieved the Company has filed an appeal before Appellate Tribunal Inland Revenue on 02 June 2018 which is pending for adjudication.
- (xvii) The Deputy Commissioner Inland Revenue (DCIR) has passed an order against the Company dated 31 March 2014 on the grounds that the Company has less paid further tax amounting to Rupees 36.800 million and extra tax of Rupees 23,500 million for the tax period July 2013 to October 2013. Being aggreved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) who upheld the order of DCIR vide order dated 02 May 2015. Afterwards, a second appeal was filed before Appellate Tribunal Inland Revenue on 05 June 2015 for which decision is awaited.
- (xviii) The Deputy Commissioner Inland Revenue (DCIR) has passed an order vide no. 19/2016 dated 05 February 2016 on the grounds that the Company has supplied electricity to unregistered persons during the period July 2014 to June 2015 without payment of sales tax amounting to Rupees 476 million, leviable thereon. Being aggrieved the Company has filed an appeal on 11 November 2016 before the Commissioner Inland Revenue (Appeals) who upheld the order of DCIR. Afterwards, a second appeal was filed before Appellate Tribunal Inland Revenue (ATIR). ATIR decided the case in favor of the Company vide order dated 18 April 2018 and remanded back the proceedings to the Learned DCIR / Assistant Commissioner Inland Revenue (ACIR). Now the case is pending before the Learned ACIR.
- (xix) The Deputy Commissioner Inland Revenue (DCIR) has passed an order against the Company dated 19 February 2016 on the grounds that the Company has made taxable supplies to three steel melters / rerollers but declared lesser quantity of electricity sold amounting to Rupees 199 million during the from period July 2011 to June 2015. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) who upheld the order of DCIR. Afterwards an appeal was filed before Appellate Tribunal Inland Revenue who remanded back the case to DCIR vide order dated 18 April 2010. Now the case is pending for adjudication before the Learned DCIR.
- (xx) The Deputy Commissioner Inland Revenue (DCIR) has passed the order no. 05/2016 dated 24 November 2016 on the grounds that the Company is required to pay sales tax on various heads amounting to Rupees 10,054 million. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 16 January 2017 who upheld the orders of DCIR. A second appeal was filed before Appealate Tribunal Inland Revenue (ATIR) dated 18 September 2017 which is still pending for adjudication.
- (xxi) The Deputy Commissioner Inland Revenue (DCIR) has passed the order No. 95/2017 dated 27 April 2017 on the grounds that the Company is required to pay sales tax on various heads amounting to Rupoca 17,105.01 million. Delug aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 25 May 2017. Subsequent to year end date the Learned CIR (A) has decided the case by Issuing order on 23 July 2018 in favor of the Company by annulling the orders of DCIR and directed him to provide appropriate opportunity of being heard.

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- (xxii) The Assistant Commissioner Inland Revenue (ACIR) has passed the order vide no. 84 dated 07 April 2017 and raised a demand of sales tax amounting to Rupees 51.9 million on the grounds that the Company has failed to pay extra tax and further tax on supply of electricity to unregistered persons during the period from July 2015 to June 2016. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 05 May 2017. The Learned CIR(A) has issued an order dated 11 April 2018 in favor of the Company by annulling the case. Now the case is pending before ACIR.
- (xxiii) The Assistant Commissioner Inland Revenue (ACIR) has passed the order on 28 August 2017 and raised a demand of sales tax amounting to Rupees 565 million on the grounds that the Company has failed to deduct the sales tax during the tax periods from July 2014 to June 2016. Being aggrieved the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 06 October 2017. The Learned CIR(A) has decided the case in favor of the Company vide its letter dated 11 April 2018 by annulling the order of the Learned ACIR. Now the case is pending before ACIR.
- (xxiv) The Assistant Commissioner Inland Revenue (ACIR) vide its show cause notice no. 684 dated 04 December 2017 raised question of withholding of sales tax amounting to Rupees 84 million. On submissions made by the Company, the Learned ACIR accepted the contentions of the Company to extent of Rupees 65 million and rejected the submission of Rupees 19 million. The ACIR issued an order vide 174/2018 dated 28 February 2018 and raised demand of sales tax amounting to Rupees 19 million. Being aggrieved, the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 30 March 2018. Subsequent to the year end the learned CIR(A) issued an order on 10 August 2018 in favor of the Company and annulled the order of ACIR. Now the case is pending before the Learned ACIR.
- (xxv) The Assistant Commissioner Inland Revenue has issued an order vide no. 197/2018 dated 14 May 2018 and raised a demand of sales tax amounting to Rupees 3,500 million on the grounds that the Company has failed to charge sales tax on subsidy received from Government of Punjab. Being aggrieved, the Company has filed an appeal before the Commissioner Inland Revenue (Appeals) (CIR(A)) on 21 June 2018, the proceedings of which is pending.
- (xxvi) The Additional Commissioner Punjab Revenue Authority has issued an order vide no. ENF-I, Unit-01, WH/112/2016-17 dated 28 November 2016 alleging that the Company has failed to withhold PRA sales tax amounting to Rupees 1,645 million from payments made on account of services acquired by the Company. Being aggrieved with the order, the Company has filed an appeal before the Commissioner (Appeals) Punjab Revenue Authority (C(A)PRA). The C(A)PRA has issued an order vide no. 27/2017 dated 14 November 2017 reducing the tax liability to Rupees 71 million along with penalty of Rupees 3.5 million. Afterwards, the Company has filed second appeal before the Appellate Tribunal Punjab Revenue Authority on 22 December 2017, the decision of which is awaited.

Aggregate provision of Rupees 37,289.82 million relating to the above stated paragraph numbers 12.1.4(xiii) to 12.1.4(xxvi) has not been recorded in the books of accounts of the Company on the advice of tax advisor of the Company.

### 12.2 Commitments

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Letters of credit for capital expenditure and other than capital expenditure are of Rupees 1,809.499 million (2017: Rupees 1,683.91 million). Keeping in view the nature of Company's business, segregation of capital expenditure and other than capital expenditure is not possible at this stage.

2018 2017 RUPEES RUPEES PROPERTY, PLANT AND EQUIPMENT 13. Capital work-in-progress (Note 13.1) 11,161,660,296 8,779,337,950 Operating fixed assets (Note 13.2) 87,811,202,804 81,186,179,985 98,972,863,100 89,965,517,935 13.1 Capital work-in-progress Civil works 314,613,184 288,284,800 Project directorate constructions 8,751,691,726 6,897,483,301 Grid station constructions (Note 13.1.2) 1,593,569,849

2,095,355,386 1,593,569,849 11,161,660,296 8,779,337,950

| 13.1.1 | Movement in capital work-in-progress         | 2018<br>RUPEES         | 2017<br>RUPEES |  |
|--------|----------------------------------------------|------------------------|----------------|--|
|        | Balance at 01 July                           | 8,779 <b>,337,9</b> 50 | 10,717,222,108 |  |
|        | Add: Additions during the year               | 10,390,640,969         | 7,795,041,688  |  |
|        |                                              | 19,169,978,919         | 18,512,263,796 |  |
|        | Less:                                        |                        |                |  |
|        | Transferred to operating fixed assets        | 7,974,910,555          | 9,706,285,241  |  |
|        | Impairment charged during the year (Note 25) | 33,408,058             | 26,640,605     |  |
|        | - · · · · · · · · · · · · · · · · · · ·      | 8,008,318,623          | 9,732,925,846  |  |
|        | Balance as at 30 June                        | 11,161,660,296         | 8,779,337,950  |  |
|        | Balance as at 30 June                        | 11,161,660,296         | 8,779,337,     |  |

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13.1.2 These include borrowing cost of Rupees 308.392 million (2017: Rupees 630.56 million) incurred specifically to finance the construction of grid station projects. The capitalization rate used was 15.557 (2017: 15.557) percent per annum.

13.1.3 Depreciation capitalized related to capital work-in-progress was Rupees 5.200 million (2017: Rupees 2.372 million). Moreover operating expenses of Rupees 341.834 million (2017: Rupees 311.847 million) have also been included in capital work-in-progress.

### OPERATING FIXED ASSETS

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|                                  | Land -Freehold                        | Land -Leasehold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Buildings on freehold land | Office<br>equipment                                                                                             | Distribution<br>equipment | Other plant and<br>equipment | Vehicles        | Total                |
|----------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------|-----------------|----------------------|
|                                  |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            | (RUPEE                                                                                                          | S)                        | ·                            |                 |                      |
| At 30 June 2016                  |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                                                                 |                           |                              |                 |                      |
| Cost                             | 328,472,851                           | 2,277,338                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3,091,154,048              | 209,694,532                                                                                                     | 99,432,622,962            | 360,546,463                  | 974,508,257     | 104,399,276,451      |
| Accumulated depreciation         |                                       | (790,164)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (843,606,013)              | (127,652,419)                                                                                                   | (31,515.829,777)          | (264,953,439)                | (683,627,700)   | (33,436,459,512)     |
| Net book value                   | 328,472,851                           | 1,487,174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2,247,548,035              | 82,042,113                                                                                                      | 67,916,793,185            | 95,593,024                   | 290,880,557     | 70,962,816,939       |
| Year ended 30 June 2017          |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                                                                 |                           |                              |                 |                      |
| Opening net book value           | 328,472,851                           | 1,487,174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.247.548.035              | 82 042 113                                                                                                      | 67 916 793 185            | 95 593 024                   | 290 880 557     | 20.962.816.939       |
| Additions                        | . 25,130,151                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 621,246,132                | 7.863.688                                                                                                       | 13.228.991.764            | 71.059.000                   | 6.288.698       | 13,960,579,433       |
|                                  |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | annin inijan               | 11000,000                                                                                                       |                           |                              | 0,200,0000      |                      |
| Depreciation charge              | · •••                                 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (64,598,289)               | (11,882,308)                                                                                                    | (3,597,894,797)           | (19,355,234)                 | (43,485,759)    | (3,737,216,387)      |
| Closing net book value           | 353,603,002                           | 1,487,174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2,804,195,878              | 78,023,493                                                                                                      | 77,547,890,152            | 147,296,790                  | 253,683,496     | 81,186,179,985       |
| At 30 June 2017                  |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                                                                 |                           |                              |                 |                      |
| Cost                             | 353,603,002                           | 2,277,338                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3,712,400,180              | 217,558,220                                                                                                     | 112.661.614.726           | 431.605.463                  | 980,796,955     | 118,359,855,884      |
| Accumulated depreciation         |                                       | (790,164)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (908,204,302)              | (139,534,727)                                                                                                   | (35,113,724,574)          | (284,308,673)                | (727,113,459)   | (37,173,675,899)     |
| Net book value                   | 353,603,002                           | 1,487,174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2,804,195,878              | 78,023,493                                                                                                      | 77,547,890,152            | 147.296,790                  | 253,683,495     | 81,186,179,985       |
| Year ended 30 June 2018          |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                                                                 |                           |                              |                 |                      |
| Opening net book value           | 353,603,002                           | 1,487,174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2,804,195,878              | 78,023,493                                                                                                      | 77,547,890,152            | 147,296,790                  | 253,683,496     | 81,186,179,985       |
| Additions                        | 5,076,000                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 323,780,350                | 5,760,068                                                                                                       | 10,373,901,871            | 78,345,210                   | 34,742,786      | 10,821,606,285       |
| Disposals                        |                                       | and the second second second second second second second second second second second second second second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                                                                                                 | ,                         |                              |                 |                      |
| Cost<br>Accumulated depreciation | -                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                          | • •                                                                                                             | -                         | -                            | (215,625)       | (215,625)<br>215,625 |
|                                  | 1 - <sub>1990</sub>                   | And and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s |                            |                                                                                                                 | -                         | •                            |                 |                      |
| Depreciation charge              |                                       | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (75,779,430)               | (12, 184, 328)                                                                                                  | (4,036,081,487)           | (27,393,702)                 | (45,144,519)    | (4,196,583,466)      |
| Closing net book value           | 358,679,002                           | 1,487,174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3,052,196,798              | 71,599,233                                                                                                      | 83,885,710,536            | 198,248,298                  | 243,281,763     | 87,811,202,804       |
| At 30 June 2018                  |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            | and an official and a second second second second second second second second second second second second secon |                           |                              | <u></u>         |                      |
| Cost                             | 358,679,002                           | 2,277,338                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4,036,180,530              | 223.318.288                                                                                                     | 123.035.516.597           | 509.950.673                  | 1.015.324.116   | 129,181,246,544      |
| Accumulated depresiation         |                                       | (790,164)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (983,983,732)              | (151,719,055)                                                                                                   | (39,149,805,061)          | (311,702,375)                | · (772,042,353) | (41,370,043,740)     |
| Net book value                   | 358,679,002                           | 1,487,174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3,052,196,798              | 71,599,233                                                                                                      | 83,885,710,536            | 198,248,298                  | 243,281,763     | 87,811,202,804       |
|                                  | · · · · · · · · · · · · · · · · · · · |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                                                                 |                           | Bibby 5                      |                 | ·····                |
| Annual rate of depreciation (%)  | -                                     | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | . 2                        | 10                                                                                                              | 3.5                       | 10                           | 10              |                      |

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The property and rights in the above assets were transferred to the Company on 01 July 1998 by WAPDA in accordance with the terms and conditions of the Business Transfer Agreement (BTA) executed between WAPDA and the Company.

Furniture and fixture have been included in other plant and equipment and computers have been clubbed in office equipment.

Title of some of freshold land has not been transferred with the rame of Company, Book value of such freshold land is not available separately.

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| 10.0 |                                                                 | 2018<br>RUPEES                          | 2017<br>RUPEES                          |
|------|-----------------------------------------------------------------|-----------------------------------------|-----------------------------------------|
| 13.3 | Depreciation charge for the year has been allocated as follows: |                                         |                                         |
|      | Operating cost<br>Capital work-in-progress (Note 13.1.3)        | 4,191,383,172<br>5,200,294              | 3,734,844,871<br>2,371,516              |
|      |                                                                 | 4,196,583,466                           | 3,737,216,387                           |
| 14.  | LONG TERM LOANS AND ADVANCES                                    |                                         |                                         |
|      | Considered good - secured:                                      |                                         |                                         |
|      | House building / purchase of plots<br>Vehicles                  | 87,153,603<br>28,705,819<br>115,859,422 | 83,717,442<br>24,729,062<br>108,446,504 |
|      | Less: Current portion shown under current assets (Note 18)      | 38,899,612                              | 32,240,460                              |
|      |                                                                 | 76,959,810                              | 76,206,044                              |
|      |                                                                 |                                         |                                         |

14.1 Loans for house building and purchase of plot are repayable in ten years, car and motor cycle loans in five years and blcycle loans in four years. As per Company's policy, interest is charged equal to the profit rate applied on 'General Provident Fund' which is 11.70 percent (2017: 11.30 percent) per annum. The principal amount is recoverable in equal monthly installments and interest is recoverable in lump sum at the time of final settlement of loans. These loans are secured by mortgage of immovable property and hypothecation of vehicles.

# 15. LONG TERM DEPOSITS

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These represent security deposits with utility companies against connections

# 16. STORES AND SPARE PARTS

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| ÷    | Stores .                                                                 | 5,573,694,015             | 3,827,867,208   |
|------|--------------------------------------------------------------------------|---------------------------|-----------------|
|      | Spare parts                                                              | 281,626,035               | 249,037,471     |
|      |                                                                          | 5,855,320,050             | 4,076,904,679   |
|      | Less: Provision for slow moving and obsolete items of                    |                           |                 |
|      | stores and spare parts (Note 16.1)                                       | 91,734,823                | 136,189,441     |
|      |                                                                          |                           |                 |
|      |                                                                          | 5,763,585,227             | 3,940,715,238   |
| 16.1 | Provision for slow moving and obsolete items of stores and spare parts   |                           |                 |
|      | Balance as at 01 July                                                    | 136,189,441               | 136,189,441     |
|      | Less: Reversal of provision for slow moving and obsolete items (Note 26) | (11,15 <del>1</del> ,018) | -               |
|      | Balance as at 30 June                                                    | 91,734,823                | 136,189,441     |
| 17.  | TRADE DEBTS                                                              |                           |                 |
|      | Partially secured:                                                       | •                         |                 |
|      | Considered good                                                          | 39,045.856,911            | 27,545,653,037  |
|      | Considered doubtful                                                      | 1,073,166,345             | 3,885,816,914   |
|      | Less: Provision for doubtful trade debts (Note 17.1)                     | (4,073,166,345)           | (3,885,816,914) |
|      |                                                                          |                           |                 |

|      |                                                                    | 2018<br>RUPEES | 2017<br>RUPEES |
|------|--------------------------------------------------------------------|----------------|----------------|
| 17.1 | Provision for doubtful trade debts                                 |                | •              |
|      | Balance as at 01 July                                              | 3,885,815,914  | 4,622,678,669  |
|      | Add: Provision for doubtful trade debts (Note 25)                  | 190,131,302    | •              |
|      |                                                                    | 4,075,948,216  | 4,622,678,668  |
|      | Less:                                                              |                |                |
|      | Reversal of provision for doubtful trade debts                     | -              | 554,552,056    |
|      | Trade debts written off against provision for doubtful trade debts | 2,781,871      | 182,309,698    |
|      |                                                                    | 2,781,871      | 736,861,754    |
|      | 8alance as at 30 June                                              | 4,073,166,345  | 3,885,816,914  |

17.2 Trade debts are partially secured to the extent of corresponding consumers' security deposits. Trade debts as at the reporting date are classified into domestic, commercial, agriculture, public lights, residential colonies and others.

17.3 As at 30 June, ageing analysis of these trade debts is as follows:

| Not past due yet                      | 11,498,505,828 | 4,037,980,476  |
|---------------------------------------|----------------|----------------|
| Due upto 2 months                     | 2,991,978,631  | 3,770,320,469  |
| 2 to 3 months                         | 127,482,469    | 396,968,756    |
| 3 to 6 months                         | 193,272,356    | 984,649,165    |
| 6 months to 1 year                    | 1,265,411,025  | 1,035,976,105  |
| 1 year to 3 years                     | 1,603,698,789  | 1,196,450,931  |
| 3 years and above                     | 2,520,576,599  | 1,564,373,155  |
| Agency balances (1 year to 3 years)   | 13,800,966,506 | 8,568,469,622  |
| Deferred balances (1 year to 3 years) | 9,117,131,053  | 9,876,281,272  |
|                                       | 43,119,023,256 | 31,431,469,951 |
| Less: Provision for doubtful debts    | 4,073,166,345  | 3,885,816,914  |
|                                       | 39,045,856,911 | 27,545,653,037 |

As at 30 June 2018, trade debts of Rupees 4,073.166 million (2017: Rupees 3,885.817 million) were impaired and provided for. The related provision has been made keeping in view the criteria mentioned in Note 2.13.

# LOANS AND ADVANCES

# Considered good:

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| Employees against expenses<br>Advances to suppliers<br>Current portion of long term loans and advances (Note 14)                                                                                                                  | 47,029,566<br>325,865,876<br>38,899,612                            | 52,818,415<br>165,371,693<br>32,240,460                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|
|                                                                                                                                                                                                                                   | 411,795,054                                                        | 250,430,568                                                     |
| OTHER RECEIVABLES                                                                                                                                                                                                                 |                                                                    |                                                                 |
| Considered good:                                                                                                                                                                                                                  | -                                                                  |                                                                 |
| Due from associated companies / undertakings (Note 19.1)<br>Sales tax receivable from consumers<br>Agriculture subsidy receivable from Government of Punjab<br>Tariff differential subsidy receivable from Government of Pakistan | 3,406,404,327<br>10,003,629,860<br>150,006,763<br>- 44,087,904,736 | 3,134,354,482<br>6,828,286,614<br>150,006,763<br>27,373,355,262 |

Duties, charges and taxes (Note 19.2)

Receivable against damaged items during warranty period Others

38,758,498,258

30,669,955

1,241,825,182

21,663,260

27,793,590

57,697,402,536

|      |                                                           | 2018<br>RUPEES | 2017<br>RUPEES |
|------|-----------------------------------------------------------|----------------|----------------|
| 19.1 | Due from associated companies / undertakings              | .*             |                |
|      | Jamshoro Power Generation Company Limited (GENCO-I)       | 2,808,344      | 993,606        |
|      | Central Power Generation Company Limited (GENCO-II)       | 248,945,331    | 173,978,031    |
|      | Northern Power Generation Company Limited (GENCO-III)     | 873,093,196    | 857,754,321    |
|      | Lakhra Power Generation Company Limited (GENCO-IV)        | 700,441        | 464,731        |
|      | Lahore Electric Supply Company Limited (LESCO)            | 447.636.372    | 435.680.905    |
|      | Quetta Electric Supply Company Limited (QESCO)            | 27,020,598     | 38,803,985     |
|      | Islamabad Electric Supply Company Limited (IESCO)         | 71,798,130     | 68,150,047     |
|      | Peshawar Electric Supply Company Limited (PESCO)          | 440,608,265    | 439,098,933    |
|      | Hyderabad Electric Supply Company Limited (HESCO)         | -              | 252,847        |
|      | Sukkur Electric Power Company Limited (SEPCO)             | 1,096,785      | 5,430,038      |
|      | National Transmission and Despatch Company Limited (NTDC) | 208,929,983    | 123,792,349    |
|      | WAPDA Current Account                                     | 819,120,313    | 772,167,608    |
|      | WAPDA Welfare Fund                                        | 261,212,882    | 216,295,572    |
|      | Power Information Technology Company (Private) Limited    | 3,433,687      | 1,491,509      |
|      |                                                           | 3 406 404 327  | 3 134 354 482  |

19.2 These represent amounts due from associated companies / undertakings. The ageing analysis is as follows:

| Upto 6 months      | 655,900,006   | 795,720,13    |
|--------------------|---------------|---------------|
| 6 months to 1 year | 575,646,042   | 697,106,146   |
| 1 year to 3 years  | 623,283,528   | 553,342,108   |
| 3 years and above  | 1,551,574,751 | 1,088,186,097 |
|                    | 3,406,404,327 | 3,134,354,482 |

**19.3** The maximum aggregate amount due from Jamshoro Power Generation Company Limited (GENCO-I) at the end of any month during the year was Rupees 2.80 million (2017: Rupees 1.07 million).

19.4 The maximum aggregate amount due from Central Power Generation Company Limited (GENCO-II) at the end of any month during the year was Rupees 248.95 million (2017: Rupees 173.98 million).

**19.5** The maximum aggregate amount due from Northern Power Generation Company Limited (GENCO-III) at the end of any month during the year was Rupees 953.43 million (2017: Rupees 857.75 million).

- 19.6 The maximum aggregate amount due from Lakhra Power Generation Company Limited (GENCO-IV) at the end of any month during the year was Rupees 1.41 million (2017: Rupees 0.82 million).
- 19.7 The maximum aggregate amount due from Lahore Electric Supply Company Limited (LESCO) at the end of any month during the year was Rupees 480.15 million (2017: Rupees 505.12 million).

19.8 The maximum aggregate amount due from Quetta Electric Supply Company Limited (QESCO) at the end of any month during the year was Rupees 46.88 million (2017: Rupees 38.80 million).

19.9 The maximum aggregate amount due from Islamabud Eleculic SUPPLY Company Limited (IESCO) at the end of any month UDPing the year was Rupees 72.68 million (2017: Ruppes 72.51 million).

**19.10** The maximum aggregate amount due from Peshawar Electric Supply Company Limited (PESCO) at the end of any month during the year was Rupees 446.37 million (2017: Rupees 443.78 million).

**19.11** The maximum aggregate amount due from Hyderabad Electric Supply Company Limited (HESCO) at the end of any month during the year was Rupees 3.32 million (2017; Rupees 26.49 million)

**19.12** The maximum aggregate amount due from Sukkur Electric Power Company Limited (SEPCO) at the end of any month during the year was Rupees 296.63 million (2017: Rupees 5.43 million).

**19.13** The maximum aggregate amount due from National Transmission and Despatch Company Limited (NTDC) at the end of any month during the year was Rupees 208.93 million (2017: Rupees 129.95 million).

19.14 The maximum aggregate amount due from Water and Power Development Authority (WAPDA) current account at the end of any month during the year was Rupees 2,443.05 million (2017: Rupees 2,159.42 million).

19.15 The maximum aggregate amount due from Water and Power Development Authority (WAPDA) welfare fund at the end of any month during the year was Puppee 201.21 million (2017. Kuppees 215.29 million).

19.16 The maximum aggregate amount due from Power Information Technology Company (Private) Limited at the end of any month during the year was Rupees 3.43 million (2017: Rupees 1.49 million).
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|      |                                                                                                                                                                                                                  | se di | 2018 -<br>RUPEES                                                                                                                                     | 2017<br>RUPEES                                                                                                                                        |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19.2 | Duties, charges and taxes                                                                                                                                                                                        |       | . :                                                                                                                                                  |                                                                                                                                                       |
|      | Receivables not yet realized:                                                                                                                                                                                    | x     |                                                                                                                                                      |                                                                                                                                                       |
|      | Electricity duty<br>Income tax<br>Other taxes<br>Neelum Jhelum surcharge<br>Debt service surcharge<br>Universal obligation surcharge<br>T.V. license fee<br>Equalization surcharge<br>Payables not yet realized: |       | 236,031,142<br>371,261,427<br>70,876,507<br>198,461,758<br>745,799,248<br>757,104,822<br>114,189,285<br><u>9,246,029</u><br>2,502,970,218            | 214,163,537<br>204,971,624<br>24,078,768<br>185,682,772<br>715,764,903<br>663,229,184<br>125,982,929<br>20,974,918<br>2,154,848,635                   |
|      | Electricity duty<br>Income tax<br>Other taxes<br>Neelum Jhelum surcharge<br>Debt service surcharge<br>Universal obligation surcharge<br>T.V. license fee<br>Equalization surcharge                               |       | (236,031,142)<br>(371,261,427)<br>(70,876,507)<br>(198,461,758)<br>(745,799,248)<br>(757,104,822)<br>(114,189,285)<br>(9,246,029)<br>(2,502,970,218) | (214,163,537)<br>(204,971,624)<br>(24,078,768)<br>(185,682,772)<br>(715,764,903)<br>(663,229,184)<br>(125,982,929)<br>(20,974,918)<br>(2,154,848,635) |

**19.2.1** These represent the amounts billed to the customers on behalf of the respective authorities and are receivable at year end which have been netted off against their respective payables.

# 20. TAX REFUNDS DUE FROM GOVERNMENT

|   | Income tax                        | 1,933,953,804  | 167,690,233                                                                                                      |
|---|-----------------------------------|----------------|------------------------------------------------------------------------------------------------------------------|
|   | Sales tax                         | 8,739,910,295  | 9,975,159,854                                                                                                    |
|   |                                   | 10,673,864,099 | 10,142,850,087                                                                                                   |
| • | CASH AND BANK BALANCES            |                |                                                                                                                  |
|   | Cash with banks on:               |                |                                                                                                                  |
|   | Current accounts                  | 162,143,395    | 224,612,468                                                                                                      |
|   | Deposit accounts (Note 21.1)      | 2,292,352,364  | 1,305,498,079                                                                                                    |
|   | Term deposit receipts (Note 21.2) | 7,766,242,811  | 7,332,000,000                                                                                                    |
|   |                                   | 10,220,738,570 | 8,862,110,547                                                                                                    |
|   | Cash in hand                      |                | 727                                                                                                              |
|   |                                   | 10,220,738,570 | 8,862,111,274                                                                                                    |
|   |                                   |                | a series and a series of the series of the series of the series of the series of the series of the series of the |

21.1 Rate of profit on deposit accounts ranges from 3.75 percent to 5.60 percent (2017: 3.75 percent to 5.50 percent) per annum.

21.2 These represent term deposit receipts placed in local curronsy with different banks having maturity period of one to three (2017: one to three) months at profit rates ranging from 4.00 percent to 6.75 percent (2017: 5.70 percent to 6.75 percent) per annum.

# 22. SALES OF ELECTRICITY

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| Gross sales     | 768,641,324,145 | 120,500,150,400 |
|-----------------|-----------------|-----------------|
| Loce: Salee tax | 28,669,025,105  | 18,933,934,573  |
|                 | 139,972,299,041 | 107.599,220,857 |

# 23. TARIFF DIFFERENTIAL SUBSIDY

This represents the tarlif subsidy claimed from the Government of Pakistan as the difference between rates determined by NEPRA and rates charged to the consumers as notified by the Government of Pakistan from time to time.

### 24. COST OF ELECTRICITY

The Company purchased electricity from CPPA and other private power producers. The electricity purchased during UIE year has been accordance with monthly fuel price adjustment determined and notified by NFPRA.

| 25.  | OPERATING EXPENSES EXCLUDING DEPRECIATION               | 20 <b>13</b><br>RUPEES | 2017<br>RUPEES                        |
|------|---------------------------------------------------------|------------------------|---------------------------------------|
|      | Solarion wages and other benefits                       | R 672 080 416          | -<br>                                 |
|      | Staff retirement bandits (Nato 5.2)                     | 6,673,080,410          | 7,407,930,997                         |
|      | Starr retrements benefits (Note 0.2)                    | 5,550,418,754          | 4,930,382,595                         |
|      | Repair and maintenance                                  | 1,298,643,998          | 1,887,661,606                         |
|      | Travening and conveyance                                | 988,385,414            | 775,279,004                           |
|      | Electricity bills collection charges                    | 419,970,250            | 404,706,201                           |
|      | ransportation                                           | 355,414,408            | 307,501,320                           |
|      | Advertising and publicity                               | 59,729,495             | 55,932,863                            |
|      | Office supplies and other expenses                      | 164,461,000            | 159,920,967                           |
|      | Legal and professional fees                             | 41,510,404             | 43,508,812                            |
|      | Auditors' remuneration (Note 25.1)                      | 1,675,000              | 1,000,000                             |
|      | Power, light and water                                  | 81,236,575             | 71,193,367                            |
|      | Computer and outside services                           | 127,712,400            | 145,079,166                           |
|      | Telephone and postage                                   | 53,875 <b>,2</b> 57    | 74,631,909                            |
|      | Management fees                                         | 208,915,070            | 610,619,424                           |
|      | <ul> <li>Rent, rates and taxes</li> </ul>               | 23,649,593             | 21,534,043                            |
|      | Insurance                                               | 32,800.655             | 33,070,929                            |
|      | Provision for doubtful trade debts (Note 17.1)          | 190,131,302            |                                       |
|      | Impairment of capital work in progress (Note 13.1.1)    | 33,408,068             | 26,640,605                            |
|      | Other charges (Note 25.2)                               | 2,611,979,498          | 621,382,24                            |
|      |                                                         | 22,216,998,637         | 17,578,076,138                        |
|      | Less: Charged to capital work-in-progress (Note 13.1.3) | 341,833,798            | 311,847,331                           |
|      |                                                         | 21,875,164,839         | 17,266,228,807                        |
| 25.1 | Auditors' remuneration                                  |                        | · · · · · · · · · · · · · · · · · · · |
|      | Audit fee                                               | 850,000                | 850,000                               |
|      | Half yeariy review fee                                  | 400,000                |                                       |
|      | Other certification fee                                 | 150,000                |                                       |
|      | Reimbursable expenses                                   | 275,000                | 150,000                               |
|      |                                                         | 1,675,000              | 1,000,000                             |

25.2 These include supplemental charges of Rupees 1,642.39 million (2017: Rupees Nil) passed on the Company, which comprise re-allocation of mark-up on late payments imposed by Independent Power Producers (IPPs) to CPPA on the basis of average outstanding balance.

# 26. OTHER INCOME

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|             | Income from financial assets                                         |               |               |
|-------------|----------------------------------------------------------------------|---------------|---------------|
|             | Profit on deposits with banks                                        | 607,618,615   | 303,730,624   |
|             | Reversal of provision for doubtful debts                             |               | 554,552,056   |
|             | Late payment surcharge                                               | 2,086,555,160 | 1,841,309,142 |
|             | Exchange gain                                                        | 372,413       | 5,617,168     |
|             |                                                                      | 2,694,546;100 | 2,705,298,990 |
|             | Income from non-financial assets                                     |               |               |
|             | T.V. license fee services                                            | 32,659,252    | 25,390,669    |
|             | meter / service rent                                                 | 53,980,377    | 43,182,583    |
|             | Miscellaneous service charges                                        | 80,546,965    | 36,682,435    |
|             | Reconnection fees                                                    | 47,011,703    | 31,853,027    |
|             | Sale of scrap                                                        | 14,696,495    | 2,428,312     |
|             | Credit balances written back                                         | 141,244,620   | -             |
|             | Reversal of provision for slow moving and obsolete items (Note 16.1) | 44,454,618    | •             |
|             | Gain on disposal of property, plant and equipment                    | 300,000       | •             |
|             | Miscellaneous                                                        | 316,996,576   | 275,447,144   |
|             |                                                                      | 731,890,606   | 415,984,170   |
|             | · ·                                                                  | 3,120,100,794 | 3,121,283,160 |
| <b>27</b> . | FINANCE COST                                                         |               |               |
|             | Mark-up on long term financing                                       | 1,121,515,821 | 927,204,834   |
|             | Bank charges and commission                                          | 11,502,388    | 6,856,757     |
|             |                                                                      | 1,133,018,209 | 934,061,591   |

#### 28. TAXATION

#### 28.1 Current

Provision for current taxation is not made due to available tax losses and brought forward tax credit for non-equity investment in plant and machinery under section 65B of Income Tax Ordinance, 2001. Reconciliation of tax expense and product of accounting profit multiplied by the applicable tax rate is not required in view of accumulated tax losses of the Company.

2018

RUPEES

2017 RUPEES

#### 28.2 Deferred

| Deferred | income | tax e | effect | due | to: |
|----------|--------|-------|--------|-----|-----|
|----------|--------|-------|--------|-----|-----|

| Dereneu monne lax enect que lu:                                        |                   |                   |
|------------------------------------------------------------------------|-------------------|-------------------|
| Accelerated tax depreciation                                           | 15,753,841,168    | 15,020,560,840    |
| Provision for doubtful trade debts                                     | (1,181,218,240)   | (1,165,745,074)   |
| Provision for slow moving and obsolete items of stores and spare parts | (26,603,099)      | (40,856,832)      |
| Staff retirement benefits                                              | (20,414,304,739)  | (16,977,921,713)  |
| Unused tax losses and credit                                           | (118,576,556,901) | (108,713,206,158) |
| Net deferred income tax asset                                          | (124,444,841,811) | (111,877,168,937) |
| Unrecognized deferred income tax asset (Note 28.3)                     | 124,444,841,811   | 111,877,168,937   |
|                                                                        | <u> </u>          |                   |

28.3 Deferred income tax asset has not been recognized in these financial statements due to uncertainty in availability of sufficient future taxable profits as these temporary differences are not likely to reverse in the foreseeable future.

28.4 Due to available tax losses, brought forward tax credit for non-equity investment in plant and machinery under section 65B of Income Tax Ordinance, 2001 (the Ordinance) and other provisions of the Ordinance, no provision for taxation was created in the financial statements of last three years. Moreover, no tax was assessed as per the income tax returns filed by the Company for the last three years.

| 70  | LOSS PEP SHARE                                    |                       | 2018              | 2017                                                        |
|-----|---------------------------------------------------|-----------------------|-------------------|-------------------------------------------------------------|
| 23. | Paris loss nor share                              |                       |                   |                                                             |
|     | basic loss per share                              | (Dubaas)              | לדרס מרק ארט לכי) | (17 074 EID EE9)                                            |
|     | LOSS after taxation                               | (Rupees)              | (33,824,720,827)  | (17,934,510,550)                                            |
|     | Weighted average number of ordinary shares        | (Numbers)             | 1 082 363 604     | 1 082 363 604                                               |
|     | Loss per share - Basic                            | (Rupees)              | (31,25)           | (16.57)                                                     |
|     | Diluted loss per share                            |                       |                   |                                                             |
|     | Loss after taxation                               | (Rupees)              | (33,824,726,827)  | (17,934,510,558)                                            |
|     | Weighted average number of ordinary shares        |                       |                   | 가 있는 것 같은 것 같은 것 같은 것 같은 것 같은 것 같은 것 같은 것 같                 |
| . · | Including deposit for shares                      | (Numbers)             | 4 141 389 666     | 4 333 208 649                                               |
|     | Loss por sharn - Diluted                          | (Rupeas)              | (0,17)            | (1.1-1)                                                     |
|     |                                                   |                       | 2018<br>RUPEES    | 2017<br>RUPEES                                              |
| 30. | CASH GENERATED FROM OPERATIONS                    |                       |                   |                                                             |
|     | Loss before taxation                              |                       | (33,824,726,827)  | (17,934,510,558)                                            |
| •   | Adjustments for non-cash charges and other i      | items:                |                   |                                                             |
| •   | Depreciation                                      |                       | 4,191,383,172     | 3,734,844,871                                               |
|     | Provision for staff retirement benefits           |                       | 6,550,418,754     | 4,930,382,596                                               |
|     | Amortization of deferred credit                   |                       | (2,405,158,345)   | (2,213,528,610)                                             |
|     | Provision for doubtful debts                      |                       |                   | (554,552,056)                                               |
|     | Provision for slow moving and obsolete items of s | tores and spare parts |                   | 에 가 가 있는 것 같아야지 않았다.<br>이 가 가 가 가 가 주말 것<br>같이 가 가 가 가 주말 것 |
|     | reversed during the year                          |                       | (44,454,618)      |                                                             |
|     | Impairment of capital work-in-progress            |                       | 33,408,068        | 26,640,605                                                  |
|     | Gain on disposal of property plant and equipment  |                       | (007,018,015)     | (303,730,624)                                               |
|     | Finance cost                                      |                       | (300,000)         | 934.061.591                                                 |
|     | Working capital changes (Note 30.1)               |                       | 33,054,592,490    | 18,758,153,438                                              |
| •   |                                                   |                       | 8,080,562,288     | 7,387,771,253                                               |

2018 2017 RUPEES RUPEES 30.1 Working capital changes Increase / (decrease) in current assets Stores and spare parts (1,778,415,371) 674,823,467 Trade debts (11,500,203,874) (7,183,081,375) Loans and advances (154,705,334) 151,731,310 Other receivables (18,938,904,278) (9,652,329,789) Tax refunds due from Government 1,235,249,559 2,448,460,788 (31,136,979,298) (13,560,395,599) Increase in trade and other payables 64,191,571,788 32,328,559,037 33,054,592,490 18,768,163,438

30.2 Reconciliation of movement of liabilities to cash flows arising from financing activities:

|                                                                                                                                                             | Long term<br>financing                       | Consumers'<br>security deposits<br>received | Receipt against<br>deposit works | Total                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------|----------------------------------|----------------------------------------------------------------------------------|
|                                                                                                                                                             |                                              | RUPEES -                                    |                                  |                                                                                  |
| Balance as at 01 July 2017                                                                                                                                  | 12,654,452,732                               | 7,210,180,701                               | 64,713,687,280                   | 84,608,320,713                                                                   |
| Financing obtained<br>Repayment of financing<br>Security deposits received<br>Receipts against deposit work received-net<br>Amortization of deferred credit | 1,021,006,491<br>(28,641,054)<br>-<br>-<br>- | 354,354,104                                 | 9,308,157,417<br>(2,405,158,345) | 1,021,006,491<br>(28,641,054)<br>954,354,104<br>9,308,157,417<br>(2,405,158,345) |
| Balance as at 30 June 2018                                                                                                                                  | 13,676,818,169                               | 8,164,534,805                               | 71,616,686,352                   | 93,458,039,326                                                                   |

### 31.

# REMUNERATION OF CHIEF EXECUTIVE OFFICER, DIRECTORS AND EXECUTIVES

Aggregate amount charged in these financial statements in respect of remuneration including all benefits to the Chief Executive Officer and executives of the Company are as follows:

|                   | 2018           | 2017      | 2018        | 2017                                     |
|-------------------|----------------|-----------|-------------|------------------------------------------|
|                   | Chief Executiv | e Officer | Executi     | ves                                      |
|                   | RUPEES         | RUPEES    | RUPEES      | RUPEES                                   |
| Basic pay         | 1,586,760      | 1,586,760 | 252,661,800 | an an an an an an an an an an an an an a |
| Allowances        | 1,730,631      | 1,385,618 | 117,495,900 |                                          |
| Meeting fee       | 1,330,000      | •         |             |                                          |
|                   | 4;647,391      | 2,972,378 | 370,157,700 |                                          |
| Number of persons | 1              | 1         | 234         |                                          |

31.1 The Chief Executive Officer is provided unfurnished accommodation, free electricity, free use of Company's maintained vehicle and telephone facility as per the Company's rules. Moreover, all executives are provided free electricity and some of the executives are also provided unfurnished accommodation, free use of Company's maintained vehicle and telephone facility as per Company's rules.

31.2 Aggregate amount charged in the financial statements for meeting fee to 10 (2017: 7) directors was Rupees 9.31 million (2017: Rupees 13.83 million).

31.3 No remuneration was paid to any Director of the Company.

31.4 Due to manual record keeping, # www.nut.proculable to disclose comparative figures of executives in accordance with the requirements of UNE NRh.schedule of the Companies Act, 2017.

### 32. TRANSACTIONS WITH RELATED PARTIES

Related parties comprise associated companies / undertakings, other related parties and key management personnel. The Company in the normal course of business carries out transactions with various related parties. Detail of transactions with related parties, other than those which have been disclosed elsewhere in these monitoristatements, are as follows:

|                                                                          | 2018<br>RUPEES  | 2017<br>RUPEES  |
|--------------------------------------------------------------------------|-----------------|-----------------|
| Associated companies / undertakings:                                     |                 |                 |
| Purchase of electricity                                                  | 192,693,791,151 | 140,019,166,193 |
| Free supply of electricity provided to employees of associated companies | 171,504,965     | 148,817,188     |
| Free supply of electricity received by employees of the Company          | 27,360,919      | 32,584,181      |
| Electricity hills of the Company technical by associated companies       | 921,803         | 456,291         |
| Electricity bills of associated companies received by the Company        | 758,193         | 798,681         |
| Pension naid to employees of associated companies                        | 754,605,799     | \$74,558,813    |
| Pension received by employees of the Company from associated companies   | 193,664,760     | 139,572,526     |
| Finance cost                                                             | 1,121,515,821   | 927,204,834     |

32.1

Detail of compensation to key management personnel comprising of Chief Executive officer, Directors and executives is disclosed in Note 31.

32.2 Associated companies / undertakings with whom the Company have transactions during the year:

Jamshoro Power Generation Company Limited (GENCO-I) Central Power Generation Company Limited (GENCO-II) Northern Power Generation Company Limited (GENCO-III) Lakhra Power Generation Company Limited (GENCO-IV) National Transmission and Despatch Company Limited (NTDC) Central Power Purchasing Agency (Guarantee) Limited (CPPA) Lahore Electric Supply Company Limited (LESCO) Quetta Electric Supply Company Limited (QESCO) Islamabad Electric Supply Company Limited (IESCO) Peshawar Electric Supply Company Limited (PESCO) Hyderabad Electric Supply Company Limited (HESCO) Sukkur Electric Power Company Limited (SEPCO) Hyderabad Electric Supply Company Limited (HESCO) Faisalabad Electric Supply Company Limited (FESCO) Gujranwala Electric Power Company Limited (GEPCO) Water and Power Development Authority (WAPDA) Power Information Technology Company (Private) Limited (PITC)

32.2.1 The Company and all of the above mentioned companies / undertakings are under common control of GoP with the Ministry of Water and Power.

|     |                                             | • | 2018   | 2017   |
|-----|---------------------------------------------|---|--------|--------|
| 33. | NUMBER OF EMPLOYEES                         |   |        |        |
|     | Number of employees as on 30 June           |   | 16 963 | 17 598 |
|     | Average number of employees during the year |   | 16 637 | 17 205 |
|     |                                             |   |        |        |

33.1 As the Company's core business is distribution of electricity. Therefore, no emloyee is considered as factory employee.

#### 34. FINANCIAL RISK MANAGEMENT

#### 34.1 Financial risk factors

The Company's activities expose it to a variety of financial risks: market risk (including currency risk, other price risk and interest rate risk), credit risk and liquidity risk. The Company's overall risk management programme focuses on the unpredictability of financial markets and seeks to minimize potential adverse effects on the Company's financial performance.

Risk management is carried out by the Company's Board of Directors. The Board provides principles for overall risk management, as well as policies covering specific areas such as currency risk, other price risk, interest rate risk, credit risk, liquidity risk, investment of excess liquidity and use of non-derivative financial instruments.

### (a) Market risk

### (i) Currency risk

Currency risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in foreign exchange rates. Currency risk arises mainly from future commercial transactions or receivables and payables that exist due to transactions in foreign currencies.

The Company is exposed to currency risk arising from various currency exposures, primarily with respect to the United States Dollar (USD) and Chinese Yuan (CNY). Currently, the Company's foreign exchange risk exposure is restricted to the amounts receivable / payable from / to the foreign entities. The Company's exposure to currency risk was as follows:

|                                                                    | 2018             | 2017                |
|--------------------------------------------------------------------|------------------|---------------------|
| Trade and other payables - USD                                     | (47,646)         | (1,253,089)         |
| Loans and advances - CNY<br>Loans and advances - USD               | 37,904           | 64,465<br>281,006   |
| Net exposure - USD<br>Net exposure - CNY                           | (9,742)          | (972.083)<br>64,465 |
| Following significant exchange rates were applied during the year: |                  |                     |
| Rupees per US Dollar                                               |                  |                     |
| Average rate<br>Reporting date rate                                | 110.43<br>121.60 | 104.90<br>105.00    |
| Rupees per Chinese Yuan                                            |                  | · .                 |
| Average rate Reporting date rate                                   | 17.20<br>18,76   | 15.74<br>15.70      |
|                                                                    |                  | 38                  |

### Sensitivity analysis

If the functional currency, at reporting date, had weakened / strengthened by 5% equilat UIC UDD and CNY WID an Other Variables Allo CONSTant, the impact on loss after taxation for the year would have been by Rupees 0.059 million (2017: Rupees 5.103 million) higher / lower and Rupees Nil (2017: Ruppes 0.051 million) lower / higher respectively, mainly as a result of exchange galos / losses on translation of foreign exchange denominated financial instruments. Currency risk sensitivity to foreign exchange movements has been calculated on a symmetric basis. In management's opinion, the sensitivity analysis is unrepresentative of inherent currency risk as the year end exposure does not reflect the exposure during the year.

### (ii) Other price risk

Other price risk represents the risk that the fair value or future cash flows of a financial Instrument will fluctuate because of changes in market prices (other than those arising from interest rate risk or currency risk), whether those changes are caused by factors specific to the individual financial instrument or its issuer, or factors affecting all similar financial instruments traded in the market. The Company is not exposed to commodity price risk.

### (iii) Interest rate risk

This represents the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates.

The Company's interest rate risk arises from long term financing, long term advances, bank balances in saving accounts and term deposit receipts. Financial instruments at variable rates expose the Company to cash flow interest rate risk. Financial instruments at fixed rate expose the Company to fair value interest rate risk.

At the reporting date the interest rate profile of the Company's Interest bearing financial instruments was:

| ·                                | 2018<br>RUDEES | 2017<br>RUPEES |
|----------------------------------|----------------|----------------|
| Fixed rate instruments           |                |                |
| Financial assets                 |                |                |
| Long term advances               | 115,859,422    | 108,446,504    |
| Financial (iabilities            |                |                |
| Long term financing              | 13,506,542,449 | 12,485,635,958 |
| Floating rate instruments        |                |                |
| Financial assets                 |                |                |
| Bank balances - deposit accounts | 2,292,352,364  | 1,305,498,079  |
| Term deposit receipts            | 7,756,242,811  | 7,332,000,000  |

### Fair value sensitivity analysis for fixed rate instruments

The Company does not account for any fixed rate linancial assets and liabilities at fair value through profit or loss. Therefore, a change in interest rate at the reporting date would not affect profit or loss of the Company.

### Cash flow sensitivity analysis for variable rate instruments

If interest rates, at the year end date, fluctuates by 1% higher / lower with all other variables held constant, loss after taxation for the year would have been Rupees 100.586 million (2017: Rupees 86.374 million) lower / higher, mainly as a result of higher / lower interest income on floating rate financial instruments. This analysis is prepared assuming amounts of financial instruments outstanding at reporting date were outstanding for the whole year.

### (b) Credit risk

Credit risk represents the risk that one party to a financial instrument will cause a financial loss for the other party by failing to discharge an obligation. The encyting answers of Grandal associa representation and the maximum exposure to credit risk at the reporting date was as follows:

| Trade debts        | 39.045.856.911 | 27,545.653.037 |
|--------------------|----------------|----------------|
| Loone and advanced | 115,859,422    | 108,446,504    |
| Accrued interest   | 48,504,557     | 40,060,925     |
| Deposits           | 49,185         | 49,185         |
| Other receivables  | 13,459,491,037 | 11,235,136,233 |
| Bank balances      | 10,220,738,570 | 8,862,110,547  |
|                    | 62,890,499.682 | 47,791,456,431 |

The credit quality of financial assets that are neither past due nor impaired can be assessed by reference to external credit ratings (if available) or to historical information about counterparty default rate:

|                           | · · ·      | Rating      |         | 2018                                   | 2017          |
|---------------------------|------------|-------------|---------|----------------------------------------|---------------|
| . · · · ·                 | Shore term | Long term . | Agency  | (RUPE                                  | ES)           |
| Banks                     |            | ا (         |         | ······································ |               |
| Allied Bank Limited       | A1-        | ДД.4        | PACRA   | 2,752,430,294                          | 2,603,729,495 |
| United Dank Limited       | A-1+       | AAA         | JCR-VIS | 2,053,672,997                          | 1,297,899,145 |
| MCB Bank Limited          | Ath        | AAA         | PACRA   | 193,310,457                            | 96,038,949    |
| Habib Bank Limited        | A-1+       | AAA         | JCR-VIS | 208,329,091                            | 239.419.175   |
| National Rank of Dakistan | X11th      | AAA         | JCR-VIS | 1,149,084,398                          | 2,655,309,097 |
| The Bank of Punjab        | A1+        | AA          | PACRA   |                                        | 251,805,586   |
| Bank Alfalah Limited      | ð4 :       | an r        | PACKA   | 13,237,194                             | 2,737,710     |
|                           |            | Sub total:- |         | 6,370,054,441                          | 7,144,239,107 |

Sub total:-

|                                          |               | Rating    |         | 2018           | 2017          |  |
|------------------------------------------|---------------|-----------|---------|----------------|---------------|--|
|                                          | Short term    | Long term | Agency  | (RUPE          | ES)           |  |
|                                          |               |           |         |                |               |  |
| Bank Al-Habib Limited                    | A1+           | AA+-      | PACRA   | 295,420,845    | 8,255,304     |  |
| Méezan Bank Limited                      | A-1+          | AA        | JCR-VIS | 425,826,120    | -             |  |
| Sonerl Bank Limited                      | A1+           | AA-       | PACRA   | 1,102,628,424  | 659,957,571   |  |
| Askari Bank Limited                      | A1+           | AA+ '     | PACRA   | 13,991,390     | 51,492        |  |
| Faysal Bank Limited                      | A1+           | ÅΑ        | PACRA   | 1,579,856,104  | 702,354,859   |  |
| Habib Metropolitan Bank Limited          | A1+           | AA+       | PACRA   | 108,554,176    | 1,802,258     |  |
| Standard Chartered Bank Pakistan Limited | A1+           | AAA       | PACRA   | 3,144          | · ·           |  |
| Zarai Taraqiati Bank Limited             | A-1+          | AAA       | JCR-VIS | 67,303,250     | 28,119,510    |  |
| Summit Bank Limited                      | `∧-1          | A-        | JCR-VIS | 1,630,035      | 101,460       |  |
| JS Bank Limited                          | A1+           | AA-       | PACRA   | 5,074,003      | 16,392,220    |  |
| Siikbank Limited                         | A-2           | A-        | JCR-VIS | 385,561        | 893,854       |  |
| First Women Bank Limited                 | A2            | A-        | PACRA   | 335,685        | 103           |  |
| Al-Baraka Bank (Pakistan) Limited        | AI            | A         | PACRA   | 4,482,136      | 1,397,011     |  |
| Dubai Islamic Bank Pakistan Limited      | A-1           | AA-       | JCR-VIS | 1,560,317      | 221,589       |  |
| The Bank of Khyber                       | Al            | А         | PACRA   | 1,563,375      | 472,716       |  |
| Trust Investment Bank Limited*           | N/A           | N/A       | N/A     | 214,373,418    | 214,373,418   |  |
| The Punjab Provincial Cooperative        |               |           |         |                |               |  |
| Bank Limited**                           | N/A           | N/A       | N/A     | 27,686,146     | 80,778,025    |  |
|                                          | Sub total:-   |           |         | 3,850,674,129  | 1,715,171,390 |  |
|                                          | Grand total:- |           |         | 10,220,738,570 | 8,862,110,547 |  |

\* PACRA has withdrawn the credit ratings of the Bank since 19 November 2012 on the request of the Bank's management as SECP has not renewed Bank's license to operate investment finance services.

\*\* State Bank of Pakistan has exempted the Bank from credit rating requirements till the completion of its restructuring process.

The Company's exposure to credit risk and impairment losses related to trade debts is disclosed in Note 17.

Due to the Company's long standing business relationships with these counterparties and after diving due consideration to their strong financial standing, management does not expect non-performance by these counterparties on their obligations to the Company. Accordingly the credit risk is minimal.

### (c) Liquidity risk

Liquidity risk is the risk that an entity will encounter difficulty in meeting obligations associated with financial liabilities. The cash management has not yet been delegated to the Company and WAPDA disburses funds to the Company as and when needed. Following are the contractual maturities of financial liabilities, including interest payments. The amounts disclosed in the table are undiscounted cash flows.

Following are the contractual maturities of financial liabilities as at 30 June 2018:

|                              |                                         | and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se |                  |             | the second second second second second second second second second second second second second second second se |                   |
|------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|-----------------------------------------------------------------------------------------------------------------|-------------------|
|                              | Carrying amount                         | Contractual cash<br>fiews                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 months or less | 6-12 months | 1-3 years                                                                                                       | More than 3 years |
|                              | *************************************** |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (RU              | PEES)       | ******                                                                                                          |                   |
| Non-derivative financial lia | bilities:                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |             |                                                                                                                 |                   |
| Long term financing          | 13,676,818,169                          | 33,374,808,917                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4,036,149,281    | 436,496,001 | 2,499,397,712                                                                                                   | 26,402,765,923    |
| Long term security deposits  | 8,164,534,805                           | 8,164,534,805                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  | -           |                                                                                                                 | 8,154,534,805     |
| Trade and other payables     | 116,046,041,236                         | 116,046,041,235                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 116,046,041,235  | -           |                                                                                                                 |                   |
| Accruent mark-up             | 7,523,969,341                           | 7,823,989,341                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7 197,300,876    | •           | 67.6,688,463                                                                                                    |                   |
|                              | 145.711.383.591                         | 165.409.374.299                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 127,279,491,305  | 436 496 001 | 3.176-085-175                                                                                                   | 14 567 300 728    |

Following are the contractual maturities of financial liabilities as at 30 June 2017:

|                               |                            |                           |                  | the second second second second second second second second second second second second second second second s | and the second second second second second second second second second second second second second second second |                        |
|-------------------------------|----------------------------|---------------------------|------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------|
| ·                             | Carrying amount            | Contractual cash<br>flows | 6 months or less | Less than 1 year                                                                                               | 1-3 years                                                                                                        | Mora than 3 years      |
|                               | ان والاستداد بر بار فر سال | **********************    | (RUPEES          | 5)                                                                                                             | *********                                                                                                        |                        |
| Non-derivative financial Ilal | bilities:                  |                           |                  |                                                                                                                |                                                                                                                  |                        |
| congriem financing            | 12,684,452,732             | 31,058,416,527            | 3,229,292,553    | 368,002,124                                                                                                    | 2,209,012,744                                                                                                    | 25,263,109,096         |
| Long term security deposits   | 7,210,180,701              | 7,210,180,701             | · ·              | *                                                                                                              | -                                                                                                                | 7,210,180,701          |
| Trade and other payables      | 49,936,279,621             | 49,936,279,621            | 49,936,279,621   | -                                                                                                              | -                                                                                                                | 가 있는 것은 것을 가락했다.<br>문헌 |
| Accrued mark-up               | 6,594,081,462              | 6,594;081,462             | 5,302,177,109    |                                                                                                                | 291,904,353                                                                                                      | ·                      |
|                               | 75 474 004 516             | 54 POS 952 311            | 50 467 740 303   | 348 002 124                                                                                                    | 2 400 517 097                                                                                                    | 37 477 286 707         |

The contractual cash flows relating to the above financial liabilities have been determined on the basis of mark-up rates effective as at 30 June. The rates of mark-up have been disclosed in Note 5 to these financial statements.

### (d) Capital risk management

The objective of the Company when managing capital is to safeguard its ability to continue as a going concern. The Company is not exposed to any external capital requirement. As public interest entity financial support is available to the Company from Federal Government and WAPDA in the form of delayed settlement of CPPA against electricity purchase, tariff revision and subsidy on purchases.

34.2 Financial Instruments by categories

| · ·                                                   | 2018<br>RUPEES                                                                                                                                                                                                                                                                                                                                | 2017<br>RUPEES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                                       | Loans and re                                                                                                                                                                                                                                                                                                                                  | Loans and receivables                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| As at 30 June                                         |                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| Assets as per statement of financial position         |                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| Trade debts                                           | 39,045,856,911                                                                                                                                                                                                                                                                                                                                | 27,545,653,037                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |
| Loans and advances                                    | 115,859,422                                                                                                                                                                                                                                                                                                                                   | 108,446,504                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |
| Accrued interest                                      | 48,504,557                                                                                                                                                                                                                                                                                                                                    | 40,060,925                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
| Deposits                                              | 49,185                                                                                                                                                                                                                                                                                                                                        | 49,185                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
| Other receivables                                     | 13,459,491.037                                                                                                                                                                                                                                                                                                                                | 11,235,136,233                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |
| Cash and bank balances                                | 10,220,738,570                                                                                                                                                                                                                                                                                                                                | 8,862,111,274                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
|                                                       | 62,890,499,682                                                                                                                                                                                                                                                                                                                                | 47,791,457,158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |
|                                                       | At amortized cost                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| Liabilities as per statement of financial position    |                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| Long term financing                                   | 13,676,818,169                                                                                                                                                                                                                                                                                                                                | 12,684,452,732                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |
| Long term security deposits                           | 8,164,534,805                                                                                                                                                                                                                                                                                                                                 | 7,210,180,701                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
| Trade and other payables                              | 116,046,041,236                                                                                                                                                                                                                                                                                                                               | 49,936,279,621                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |
| Accrued mark-up                                       | 7,823,989,341                                                                                                                                                                                                                                                                                                                                 | 6,594,081,462                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
|                                                       | 1.45,711,383,551                                                                                                                                                                                                                                                                                                                              | 76,424,994,516                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |
| Offsetting financial assets and financial liabilities |                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
|                                                       | As at 30 June<br>Assets as per statement of financial position<br>Trade debts<br>Loans and advances<br>Accrued interest<br>Deposits<br>Other receivables<br>Cash and bank balances<br>Liabilities as per statement of financial position<br>Long term financing<br>Long term security deposits<br>Trade and other payables<br>Accrued mark-up | As at 30 June     RUPEES       As at 30 June     Loans and rd       Assets as per statement of financial position     39,045,836,911       Trade debts     39,045,836,911       Loans and advances     115,859,422       Accrued interest     48,504,557       Deposits     49,185       Other receivables     13,459,491,037       Cash and bank balances     10,220,738,570        62,890,499,682        62,890,499,682        62,890,499,682        62,890,499,682        64,534,805       Trade and other payables     13,675,818,169       Long term financing     13,675,818,169       Long term financing     116,046,041,236       Accrued mark-up     7,823,989,341        145,711,383,551       Offsettion financial assets and financial liabilities     145,711,383,551 |  |  |

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As on the reporting date, recognized financial instruments are not subject to offsetting as there are no enforceable master netting arrangements and similar agreements.

### 35. RECOGNIZED FAIR VALUE MEASUREMENTS

### Fair value hierarchy

Certain financial assets and financial ilabilities are not measured at fair value if the carrying amounts are a reasonable approximation of fair value. Due to short term nature, carrying amounts of certain financial assets and financial liabilities are considered to be the same as their fair value. For the majority of the non-current receivables, the fair values are also not significantly different to their carrying amounts. Judgments and estimates are made in determining the fair values of the financial instruments that are recognized and measured at fair value in these financial statements. To provide an indication about the reliability of the inputs used in determining fair value, the Company classifies its financial instruments into following three levels. However, as at the reporting date, the Company has no such type of financial instruments which are required to be grouped into these levels. These levels are explained as under:

Level 1: The fair value of financial instruments traded in active markets (such as publicly traded derivatives, and trading and available for sale securities) is based on quoted market prices at the end of the reporting period. The quoted market price used for financial assets held by the Company is the current bid price. These instruments are included in level 1.

Level 2: The fair value of financial instruments that are not traded in an active market (for example, over-the-counter derivatives) is determined using valuation techniques which maximize the use of observable market data and rely as little as possible on entity-specific estimates. If all significant inputs required to fair value an instrument are observable, the instrument is included in level 2.

Level 3: If one ensures of the againtment inputs to not based on observable market data, the instrument is included in level 3. This is the case for unlisted equity securities.

## 36. USAID POWER DISTRIBUTION IMPROVEMENT PROGRAM

The Company has received technical and financial assistance from Power Distribution Improvement Program ("the USAID Project") of the United States Agency for International Development (USAID) and the USAID Program concluded in September 2015, Under the USAID Project the Company received financial assistance in the form of tangible assets including distribution equipment, vehicles, computing equipment, intengible assets including tritorprise Resource Planning (ERP) and related software; and technical assistance in the form of trainings and ERP technology implementation.

The USAID Project in completed during September 2015, however the USAID Project team have not shared details of the assets transferred to the Company including technical specifications and associated monotely values. Consequently, the related template during intangible assets transferred to the Company, under the USAID Project, have not been recognized in these financial statements. Management has taken up this matter with USAID Project team and various related suppliers to identify the cost of tangible and intangible assets. Management has conducted a comprehensive exercise to reconcile the quantities provided by USAID Project team and monetary values of these assets. Management is of the view that these assets shall be capitalized within the next financial year as substantial work has been done and process of verification is in process.

### 37. DATE OF AUTHORIZATION

#125

105

These financial statements were authorized for issue on \_

<u>0 8 OCT 2018</u>

by the Board of Directors of the Company.

### 38. CORRESPONDING FIGURES

Corresponding figures have been re-arranged and re-classified for better presentation, wherever necessary, for the purpose of comparison. However, no significant re-arrangements have been made except following:

| PARTICULARS RECLASS | RECLASSIFICATION | DIIDFEC                                |
|---------------------|------------------|----------------------------------------|
|                     | FROM TO          | RUPLES                                 |
|                     |                  | ······································ |

| Other loans - unsecured | Receipt against deposit works | Long term financing | 26,038,996 |
|-------------------------|-------------------------------|---------------------|------------|
|                         |                               |                     |            |

### 39. GENERAL

•

Figures have been rounded off to the nearest Rupee.

CHIEF EXECUTIVE OFFICER



In compliance to the Authority's direction imparted vide above referred Determination for FY 2018-19 & FY 2019-20, the five year Distribution Integrated Investment Plan (DIIP) for FY 2020-21 to FY 2024-25 (DIIP alongwith 20 Nos. Annexure) in respect of

DA/Complete MEPCO DIIP (FY 2021-25) Comprising 04 Volumes

MEPCO is attached for information and necessary action please.

ENGR. IKRAM-UL-HAQ Chief Executive Officer

C.C. to: -

- 1. The General Manager (Tech.), MEPCO Ltd., Multan for information.
- 2. The Chief Strategic Planner, MEPCO Ltd., Multan w.r.to his letter 4474-75/CE(P&E) dated 30.04.2021 vide which subject DIIP forwarded to this office.



**Tariff Division** 

Dy No Dated. DISTRIBUTION COMPANY INTEGRATED INVESTMENT PLAN (DIIP) - MEPCO FOR F.Y 2020-21 TO F.Y 2024-25

THIS BUSINESS PLAN / DIIP ENTAILS GOALS AND OBJECTIVES AND INITIATIVES THAT WILL HELP MEPCO ACHIEVE THE STATED GOALS. THIS PLAN HAS BEEN PREPARED WITH EXTENSIVE CROSS-FUNCTIONAL DISCUSSIONS, COORDINATION AND TEAMWORK AND PROVIDES MEPCO THE ROAD MAP TO SUCCESS.

MEPCO [Khanewal Road Multan,

DISTRIBUTION COMPANY INTEGRATED INVESTMENT PLAN (DIIP) - MEPCO FOR F.Y 2020-21 TO F.Y 2024-25

THIS BUSINESS PLAN / DIIP ENTAILS GOALS AND OBJECTIVES AND INITIATIVES THAT WILL HELP MEPCO ACHIEVE THE STATED GOALS. THIS PLAN HAS BEEN PREPARED WITH EXTENSIVE CROSS-FUNCTIONAL DISCUSSIONS, COORDINATION AND TEAMWORK AND PROVIDES MEPCO THE ROAD MAP TO SUCCESS.

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Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO Section -I Executive Summary

# i. Introduction

1

Multan Electric Power Company (MEPCO), incorporated as a Public Limited Company, is responsible for the delivery of electricity to its customers spanning 13 districts of southern Punjab as set out in MEPCO's Distribution License number 06/DL/2002, granted by NEPRA under the NEPRA Act. On May 14, 1998, as a result of the restructuring of WAPDA's Power Wing, MEPCO assumed its official operations and is since then being headed by a Chief Executive Officer (CEO) who is in turn supported by nine Executive Directors.

MEPCO pays a power purchase price (in Rs/kWh) for the electricity it procures from the Central Power Purchasing Agency (CPPA) or from other sources on behalf of the CPPA which would include the generation and transmission charges regulated by NEPRA. The major objectives of the company include ensuring uninterrupted and stable power supply to all its customers along with state of the art customer care as well as establishing and operating reliable electricity distribution networks.

Currently, MEPCO has 15989 active employees, employed in nine directorates and is responsible for distributing electricity to approximately 6.8 million consumers. The consumer mix comprises approximately 88.8% domestic consumers (6.0 million) including residential consumers in both urban and rural areas, 8.44% commercial consumers (0.58 million) including business consumers such as markets, plazas, and offices in both urban and rural areas, 1% industrial consumers (0.06 million) consisting of large and small industrial loads, 0.007% bulk consumers (457) consisting primarily of large societal consumers like housing societies, 1.37% agricultural consumers (0.094 million) including tube wells in rural areas, 0.55% General Service (0.037) consist of Govt. Offices, Semi & Govt Hospital and educational institutions and 0.03% other consumers (1,720). The sales mix consists of 57.8% domestic, 5.51% commercial, 15.32% industrial, 1.68% bulk, 17.80% agricultural, 1.73% General Service and 0.15% other consumers

### ii. Purpose and Goal of Investment Plan

The Integrated Investment Plan entails MEPCO's vision, mission, core values, stakeholders' needs, general indicators, sales and consumer forecasts, power supply issues with limitations, human resources and organizational development, financial projections, regulatory requirements including quality of service, subsidies and legal restrictions affecting timely collection of delinquent payments, performance indices with initiatives and risk assessment and will serve as a central reference document for integrated cross-functional planning that will help MEPCO make informed decisions based on priorities.

The goal of the Investment Plan/Business Plan is to create a document which will be used by the CEO and senior managers of MEPCO to focus its activities and energies for the next five years in making MEPCO a financially viable company by improving the regulation and governance of the entity, introducing new technologies including upgrade of existing

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DISTRIBUTION COMPANY INTEGRATED INVESTMENT PLAN (DIP) - MEPCO FOR F.Y 2020-21 TO F.Y 2024-25

THIS BUSINESS PLAN / DIIP ENTAILS GOALS AND OBJECTIVES AND INITIATIVES THAT WILL HELP MEPCO ACHIEVE THE STATED GOALS. THIS PLAN HAS BEEN PREPARED WITH EXTENSIVE CROSS-FUNCTIONAL DISCUSSIONS, COORDINATION AND TEAMWORK AND PROVIDES MEPCO THE ROAD MAP TO SUCCESS.

MEPCO | Khanewal Road Multan,

DIIP/Business Plan - MEPCO

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Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

# Section -I Executive Summary

# i. Introduction

Multan Electric Power Company (MEPCO), incorporated as a Public Limited Company, is responsible for the delivery of electricity to its customers spanning 13 districts of southern Punjab as set out in MEPCO's Distribution License number 06/DL/2002, granted by NEPRA under the NEPRA Act. On May 14, 1998, as a result of the restructuring of WAPDA's Power Wing, MEPCO assumed its official operations and is since then being headed by a Chief Executive Officer (CEO) who is in turn supported by nine Executive Directors.

MEPCO pays a power purchase price (in Rs/kWh) for the electricity it procures from the Central Power Purchasing Agency (CPPA) or from other sources on behalf of the CPPA which would include the generation and transmission charges regulated by NEPRA. The major objectives of the company include ensuring uninterrupted and stable power supply to all its customers along with state of the art customer care as well as establishing and operating reliable electricity distribution networks.

Currently, MEPCO has 15989 active employees, employed in nine directorates and is responsible for distributing electricity to approximately 6.8 million consumers. The consumer mix comprises approximately 88.8% domestic consumers (6.0 million) including residential consumers in both urban and rural areas, 8.44% commercial consumers (0.58 million) including business consumers such as markets, plazas, and offices in both urban and rural areas, 1% industrial consumers (0.06 million) consisting of large and small industrial loads, 0.007% bulk consumers (457) consisting primarily of large societal consumers like housing societies, 1.37% agricultural consumers (0.094 million) including tube wells in rural areas, 0.55% General Service (0.037) consist of Govt. Offices, Semi & Govt Hospital and educational institutions and 0.03% other consumers (1,720). The sales mix consists of 57.8% domestic, 5.51% commercial, 15.32% industrial, 1.68% bulk, 17.80% agricultural, 1.73% General Service and 0.15% other consumers

# ii. Purpose and Goal of Investment Plan

The Integrated Investment Plan entails MEPCO's vision, mission, core values, stakeholders' needs, general indicators, sales and consumer forecasts, power supply issues with limitations, human resources and organizational development, financial projections, regulatory requirements including quality of service, subsidies and legal restrictions affecting timely collection of delinquent payments, performance indices with initiatives and risk assessment and will serve as a central reference document for integrated cross-functional planning that will help MEPCO make informed decisions based on priorities.

The goal of the Investment Plan/Business Plan is to create a document which will be used by the CEO and senior managers of MEPCO to focus its activities and energies for the next five years in making MEPCO a financially viable company by improving the regulation and governance of the entity, introducing new technologies including upgrade of existing

# Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

technology and machinery and improving human resources in line with best practices worldwide. This plan will also be utilized by the Strategic Planning Committee to the Board for regular monitoring, to ensure that company achieves its stated objectives.

This Investment Plan covers a five-year period from FY 2020-21 to FY 2024-25, encompassing the following areas:

- Defining the activities and resources available to MEPCO through the incorporation agreements and laws relating to it.
- Identifying projections of power demand, power resources and population served expected in the time period from 2021-2025.
- Illustrating the strategic objectives for 2021-2025, aligned with optimally achievable scenario as defined by the regulator, which designated coordinators prepared to accomplish the strategic goals in the five year timeframe of the Investment Plan.
- The best and optimally achievable scenarios to demonstrate what is required and what can be achieved keeping in view the resources constraints and realities on ground.
- Projecting the financial impact on MEPCO's bottom-line of implementing the project plans.

# iii. Major Planning Situation

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The following challenges faced by MEPCO require integrated cross functional planning:

- Technical challenges and technological advances that require MEPCO to upgrade the network, including metering to receive and measure continuous and reliable flow of power
- Operational challenges to maintain continuous flow of reliable power to the customers and meet their expectations in demand dominated, load-shedding driven regime
- Institutional challenges faced while developing the capacity of MEPCO
- Smooth power evacuation, especially related to variable renewables being integrated in the network
- Compliance with applicable laws and regulations
- Social responsibility to conserve energy and social up-lift

# iv. Company's Investment Plan

The five year Investment Plan (FY 2021-25) is intended to be used by MEPCO managers and the Strategic Planning Committee of the Board of Directors as a reference guide to the upgradation and operations of MEPCO, taking into consideration the activities projected to occur in the next five years. Although the Investment Plan is based on a five-year window, it will be a living document and will be updated to reflect changes in requirements.

As per regulatory requirement specified in DIIP formats, two scenarios have been worked out, Best Case Scenario (if implemented, the company will achieve NEPRA standards in five years, comes with a higher cost) and Optimally Achievable Scenario (based on what company can fund, procure
## 

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and implement realistically, comes with less cost, but compromise on the performance). The Multi Year Tariff (MYT) of MEPCO will be based on the Achievable Scenario, and the Best Case is prepared to demonstrate the overall needs of the DISCO to meet the benchmarks specified by NEPRA in five years.

Abstract of the business plan based on the two scenarios is presented hereunder:

Under this five-year plan MEPCO will expand and rehabilitate is Transmission and Distribution (T&D) systems. Moreover, plans have been prepared to improve the financial, commercial, human resource and communications functions, including IT that supports the main T&D business. From new grid stations to AMRs for commercial improvements, initiatives have been planned to improve the overall performance of the company in an integrated manner. For details on scope please refer Section-V of this plan.

### Costs Summary:

- Total Cost (Capex+Opex) Best Case: Rs. 113,123 Million.
- Total Cost (Capex+Opex) Optimally Achievable Case: Rs. 82,921 Million.

#### Benefits Summary:

- Optimally Achievable Case:Savings of **984.5MkWh** of energy through loss reduction and smooth dispersal of power from new generation.
- Best Case Savings of **1365.6MkWh** of energy through the best implementation for loss reduction and smooth dispersal of power from new generation.

#### Loss Reduction and Collections Targets:

MEPCO will reduce the losses from 15.2% in FY2019-20 to 13.5% by FY 2024-25 by reducing the 1.7% T&D Loss in five years by implementing the best case. However, as per the funding available MEPCO will implement the achievable case thus reducing company loss from 15.2% in FY 2019-20 to 14.3% by FY 2024-25 by reducing the T&D loss by 0.9%. Moreover, MEPCO has always attained the collection efficiency of 100% that will be maintained throughout the control period.

# Section -II The Company's– Baseline

### i. General Information

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### History

Multan Electric Power Company Ltd., MEPCO, is a Public Limited Utility Company, responsible for the distribution of electric power to the population. MEPCO was incorporated in Pakistan under the Companies Ordinance 1984, on May 14, 1998, in line with Government policy of unbundling and corporatizing Pakistan's power sector, as a result of restructuring of WAPDA's Power Wing after the enforcement of NEPRA Regulation of Generation, Transmission and Distribution of Electric Power Act (XL of 1997). MEPCO's Distribution License No. 06/DL/2002 was issued by NEPRA on April 25, 2002 for the sale of power.

### Geographic Coverage

The network facilities of Multan Area Electricity Board (MAEB) of WAPDA were transferred to MEPCO after its incorporation. MEPCO's service area comprises of 13 administrative districts of southern Punjabile. Multan, Muzaffargarh, Layyah, D.G.Khan, Rajanpur, Lodhran, Bahawalpur, R.Y.Khan, Khanewal, Sahiwal, Pakpattan, Vehari and Bahawalnagar, spanning a total service area of 1,05,505 sq.km and 6,861,110 consumers.



# Company's Structure, Human Resources and Corporate Governance

The following organogram explains the management hierarchy of MEPCO.

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Its Board of Directors, consisting often members, is responsible for overall policy making, decision making and guiding the authority. The day-to-day affairs of the company are run by its nine Executive Directors who are responsible for their respective functions, under the overall control of the Chief Executive Officer.



 Statistical & Financial Information, including Purchases and Sales of Electricity, losses, and net profit / loss depicting the company's financial health is tabulated below:

| Description             | Units | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
|-------------------------|-------|---------|---------|---------|---------|---------|
| Units Sold              | MkWh  | 12,341  | 13,254  | 15853   | 16310   | 16382   |
| Units Received          | MkWh  | 14,763  | 15,952  | 19006   | 19367   | 19325   |
| T & D Losses.           | %     | 16.4    | 16.91   | 16.6    | 15.8    | 15.2    |
| Sales Revenue           | M.Rs. | 126,040 | 138,685 | 180,237 | 235,312 | 278,931 |
| Purchase Cost           | M.Rs. | 113,690 | 140,019 | 192,694 | 225,725 | 248,407 |
| O & M Cost              | M.Rs. | 18,619  | 17,266  | 21,875  | 31,940  | 28,623  |
| Repair &<br>Maintenance | M.Rs. | 1,686   | 1,888   | 1,299   | 1,726   | 1,729   |
| Salaries/Pensions       | M.Rs. | 14,217  | 12,338  | 15,223  | 17,854  | 21,777  |
| Other Expenses          | M.Rs. | 2,716   | 3,040   | 5,353   | 12,360  | 5,117   |
| Fixed Assets            | M.Rs. | 81,680  | 91,089  | 100,028 | 108,890 | 117,672 |

| different projects:                               |                |                |                | (              | (Mln Rs.)       |
|---------------------------------------------------|----------------|----------------|----------------|----------------|-----------------|
| Description                                       | F.Y<br>2015-16 | F.Y<br>2016-17 | F.Y<br>2017-18 | F.Y<br>2018-19 | F.Y.<br>2019-20 |
| Development of Power (DOP)                        | 851            | 1,318          | 1099           | 853            | 1,378           |
| Electricity Loss Reduction (ELR)                  | 1,183          | 1,538          | 1654           | 1,871          | 2,192           |
| STG                                               | 1,457          | 1,695          | 2271           | 2,796          | 2,291           |
| Village Electrification / Capital<br>Contribution | 2,283          | 2,000          | 2846           | 4,172          | 4,994           |
| Deposit Works / SDG                               | 2,400          | 2,867          | 3496           | 2,517          | 2,404           |
| Others                                            | 1,834          | 1,998          | 1558           | 1,230          | 628             |
| Total                                             | 10,008         | 11,416         | 12,924         | 13,439         | 13,887          |

General level of Investments: MEPCO has made the following investments in different projects:

• Relationship between staff and consumers: There are total 15989 employees working in MEPCO as of FY 2019-20. The relationship between staff and consumers for the last five years is as follows:

| Description                | 2014-15   | 2015-16   | 2016-17   | 2017-18   | 2018-19   | 2019-20   |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Customers                  | 5,116,073 | 5,374,773 | 5,701,391 | 6,072,783 | 6,485,432 | 6,861,110 |
| Employees                  | 16387     | 17445     | 17364     | 17220     | 16869     | 15989     |
| Customer/Employee<br>Ratio | 312       | 308       | 328       | 353       | 384       | 429       |

# Existing Project Design and Implementation System of DISCO

The project design and implementation system of MEPCO is based on the resource allocation (the anticipated amount of material required and obtained for the execution of the project), resource leveling (the required amount of resources to be provided at a proper time e.g, at the start of a phase, more work force and less material may be required as compared to the growth or maturity stage) and resource scheduling/loading (the amount of resources required during the specified phase of the project.

MEPCO has the required capability, personnel and expertise to implement and execute a project. It has well established, functioning departments that are capable of handling projects of similar nature and magnitude. Some of these departments are as under:

- Engineering
- Material Management
- Finance
- Commercial
- Project Management Unit



Project implementation is summarized in the form of a flow chart as below:



### Existing Operation System of DISCO

The existing administrative layout of MEPCO operation system is given below:

Each Distribution division has one revenue /customer service office. The distribution circles, divisions, customer services offices and subdivisions deal with all types of customers of the company. The Grid System Operation (GSO) circle, divisions and subdivisions take care of and maintain the power supply through 132kV and 66kV systems comprising of the transmission lines and grid stations while the Grid System Construction (GSC) executes 66kV and 132kV grid station and transmission lines works. The Metering and Testing (M&T) section takes care of the installation, maintenance and testing of energy meters of all types. The Construction Section undertakes the implementation and execution of investment programs of 11kV and LT (0.4 kV), System Augmentation Program (ELR and DOP), deposit works and village electrification.

| Description              | Circles | Divisions | Subdivisions | R.O Office |
|--------------------------|---------|-----------|--------------|------------|
| Distribution             | 9       | 38        | 181          | 38         |
| Grid System Operation    | 2       | 6         | 34           |            |
| Metering & Testing       | 2       | 9         | -            | -          |
| Construction             | 1       | 9         | 17           | -          |
| Grid System Construction | 1       | 4         | 8            |            |
| Total                    | 15      | 66        | 240          | 38         |

### ii. Power Demand and Supply

#### Daily Load Demand

The daily Load Demand with the Amount of Load Shedding and the computed Demand is provided in the Table below for the month of June 2020.

|                                |       |       |       |       |       |       |       |       | M     | ax    | m     | IM    | De    | ema   | nn(   | IJ    | un(   | e-2   | 02(   | )     |       |       |       |       |       |       |       |       |       |       |      |      |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| Date                           | 01    | 02    | 03    | 04    | 05    | 06    | 07    | 08    | 09    | 10    | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    | 26    | 27    | 28    | 29    | 30    |      | -    |
| Time                           | 16:00 | 16:00 | 17:00 | 16:00 | 14:00 | 17:00 | 16:00 | 16:00 | 17:00 | 17:00 | 17:00 | 14:00 | 17:00 | 16:00 | 16:00 | 16:00 | 16:00 | 16:00 | 16:00 | 16:00 | 17:00 | 16:00 | 15:00 | 17:00 | 17:00 | 17:00 | 17:00 | 16:00 | 17:00 | 17:00 | Max  | Avg  |
| Allocation (MW)                | 3350  | 3144  | 2938  | 3140  | 3100  | 3196  | 3300  | 3356  | 3700  | 3700  | 3700  | 3600  | 3700  | 3700  | 3700  | 3983  | 3800  | 4025  | 4100  | 4100  | 3888  | 3950  | 3950  | 4000  | 3850  | 3850  | 3850  | 3706  | 3854  | 4103  | 4103 | 3678 |
| Drawl (MW)                     | 3248  | 2674  | 2695  | 2966  | 2989  | 3030  | 3184  | 3488  | 3505  | 3542  | 3522  | 3521  | 3365  | 3535  | 3652  | 3747  | 3709  | 3659  | 3678  | 3663  | 3557  | 3670  | 3664  | 3722  | 3545  | 3550  | 3478  | 3671  | 3517  | 3743  | 3747 | 3458 |
| Schedule Load<br>Shedding (MW) | 76    | 106   | 104   | 105   | 67    | 87    | π     | 95    | 161   | 132   | 145   | 87    | 100   | 70    | 159   | 154   | 184   | 280   | 128   | 240   | 138   | 205   | 378   | 212   | 202   | 143   | 305   | 122   | 191   | 271   | 378  | 158  |
| Max Demand (MW)                | 3324  | 2780  | 2799  | 3072  | 3056  | 3117  | 3261  | 3583  | 3666  | 3674  | 3658  | 3608  | 3465  | 3605  | 3811  | 3901  | 3893  | 3939  | 3804  | 3903  | 3695  | 3875  | 4042  | 3934  | 3848  | 3693  | 3783  | 3793  | 3808  | 4014  | 4042 | 36 1 |

Below is the graphical representation of load fed below and computed demand, the difference is the load-shedding:



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### Secondary Transmission and Distribution Network Condition:

MEPCO has a total of 137 grid stations including 05 Nos. 66 kV Grid Stations. The details by grid stations (includes loading) is placed at **Annexure-1**. MEPCO serves over Six million customers through over a thousand of distribution feeders approximately 1626 feeders with a total length over seventy four thousand & sixty one kilometers. The total number of distribution transformer in MEPCO is over 18,4623 with over 8,970 MVA.

The total T&D losses are provided at **Annexure-2**. However, the segregate of Technical and non-technical losses is not available. The evaluation of Transmission & Transformation (T&T) Losses by third party has been completed by M/s Power Planner International. The D loss study is in process with M/s Power Planner International and is in process and will be completed in 2022 using SynerGEE and GIS.

# iii. Financial Management:

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The accounting systems and the corresponding back-office operations of MEPCO were legacy based which were not only unable to meet the growing needs of the company but also incapable of providing timely information required for senior management to tnake effective decisions or properly monitor and control utility operations. To cope with the said issues, three modules of ERP i.e. FICO, MM & HR have been implemented in MEPCO. Now, Financial, Human Resource and Material Management data is available through SAP module.

Now, the financial transactions are entered in SAP from all cost centers of MEPCO scattered in 13 district of Punjab Province. Many financial reports are available in ERP module for decision making at management level. However, automation of pension process in MEPCO is being planned in coming years to strengthen overall financial management and increasing the system reliability. The system of inventory / material management is operative in ERP/ SAP. All record of all stores is accessible to the users/ senior management for quick decision making. The ERP material management module is also helpful in financial discipline of stores and the processes.

The Human resource is considered the most important assets of an organization. The effective human resource management is the key to success of any organization. MEPCO has implemented HR module of SAP/ ERP. Now, most of the human resource processes are being run through ERP/ SAP.

However, the SAP/ ERP module are not integrated with the billing system of MEPCO which hampers the overall efficiency of the system. The consumer data available through billing system and other data is manually integrated to a certain level which limits benefits of SAP/ ERP implementation.

The MEPCO requirement for Operating and Maintenance expenses for the Financial Year 2019-20 was Rs. 28,623 million. The brief head-wise detail is provided in the table below:

| Sr.# | Expense Head           | O&M Expense Requirement<br>(Rs. Million) |
|------|------------------------|------------------------------------------|
| 1    | Salaries and Benefits  | 21,777                                   |
| 2    | Repair and Maintenance | 1,729                                    |
| 3    | Travelling Expenses    | 952                                      |
| 4    | Vehicle Expenses       | 399                                      |
| 5    | Other Expenses         | 3,766                                    |
|      | Total                  | 28,623                                   |

## iv. HR Management

The current strength of MEPCO for the year 2020-21 is 15989 employees against sanctioned post of 24647 that make occupancy rate 65 %. Among these 509 are in the management cadre i.e Grade-17 and above, while the remining 15480 are below Grade-17

| о. <u> </u>    | CATECORY                  |        | Wor | king |          | Total |  |
|----------------|---------------------------|--------|-----|------|----------|-------|--|
| Sr#            | CATEGORY                  | Distt. | GSO | GSC  | IT Staff | Totai |  |
| 1              | Officers Grade-18 & above | 147    | 12  | 5    | 10       | 174   |  |
| 2              | Assistant Managers        | 240    | 50  | 9    | 11       | 310   |  |
| 3              | Assistant Managers (CS)   | 25     | 0   | 0    | 0        | 25    |  |
| and the second | Sum of Officers           | 412    | 62  | 14   | 21       | 509   |  |
| 1              | Computer Operator         | 0      | 0   | 0    | 27       | 27    |  |
| 2              | AMI Supervisor            | 0      | 0   | 0    | 3        | 3     |  |
| 3              | Supervisor (DE)           | 0      | 0   | 0    | 71       | 71    |  |
| 4              | Supervisor (DC)           | 0      | 0   | 0    | 63       | 63    |  |
| 5              | Data Entry Operator       | 0      | 0   | 0    | 37       | 37    |  |
| 6              | Data Coder                | 0      | 0   | 0    | 46       | 46    |  |
| 7              | P.C Operator              | 0      | 0.  | 0    | 0        | 0     |  |
| 8              | LS-I                      | 418    | 18  | 2    | 0        | 438   |  |
| 9              | SSO-I                     | . 7    | 188 | 0    | 0        | 195   |  |
| 10             | LS-II/MS-I,II             | 519    | 15  | 6    | 0        | 540   |  |
| 11             | SSO-II                    | 2      | 137 | 0    | 0        | 139   |  |
| 12             | LFM-I                     | 19     | 0   | 0    | 0        | 19    |  |
| 13             | Foreman                   | 3      | 13  | 3    | 0        | 19    |  |
| 14             | LFM-II                    | 76     | 0   | 0    | 0        | 76    |  |
| 15             | Commercial Assistant      | 565    | 0   | 0    | 0        | 565   |  |
| 16             | LM-I                      | 1516   | 48  | 44   | 0        | 1608  |  |
| 17             | LM-II                     | 1523   | 56  | 63 . | 0        | 1642  |  |
| 18             | ALM                       | 3889   | 81  | 74   | 0        | 4044  |  |
| 19             | Meter Reader              | 1768   | 0   | 0    | 0        | 1768  |  |

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|    |                  |       | 0    | 0   | 0   | 0     |
|----|------------------|-------|------|-----|-----|-------|
| 20 | Bill Distributor | 0     | 0    | 0   | 0   | 0     |
| 21 | Chowkidar/N.Q    | 519   | 0    | 12  | 18  | 549   |
| 22 | Clerks all Types | 676   | 18   | 12  | 6   | 712   |
| 23 | Other Staff      | 1771  | 1051 | 73  | 24  | 2919  |
|    | Sum of Officials | 13271 | 1625 | 289 | 295 | 15480 |
|    | Grand Total      | 13683 | 1687 | 303 | 316 | 15989 |

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MEPCO regularly conducts training and capacity building of its employees largely through self-owned training facilities (CTCs and RTCs), WAPDA Engineering Academy and WAPDA Staff College. The trainings that are mandated by WAPDA for the Officers are conducted at the Engineering Academy and Staff College while the local training centers organize around fifteen to twenty regular training programs each year for MEPCO employees.

### v. IT Directorate

IT Directorate MEPCO has been playing a pivotal role of being a catalyst for making available enterprise-wide integrated business automated infrastructure for efficient and effective decision-making. This office is responsible for providing IT related technical & infrastructure support to all MEPCO which include consumer billing and its allied reports, MEPCO web site management, support to field formations for AMR & Mobile Meter Reading and management of IT hardware infrastructure at state of the art tier 3 Data Center in Multan.

The implementation of Integrated Billing System (IBS) in all MEPCO Operational Circles from 2018 has made the communication faster as information of any kind can be generated in few hours which were the task of days in conventional COBOL billing system.

Development of online MIS website is providing continuous support to field formations for checking the status of online payment, defaulter management from Sub Division to Circle and then at MEPCO level.

Implementation of Smart Meters (AMI) infrastructure has benefitted MEPCO a lot and MEPCO has made a tremendous success in carrying our operational activities in AMI monitoring which resulted in reduction in losses and improved payment collection.

The state of the art tier 3 data center is ready to cater the needs of MEPCO IT Infrastructure. This data center is well equipped with redundant infrastructure, central repository, co-location services up to 10 Giga Network connectivity, reduced operational cost and business continuity and assurance.

|         | Device Name                                              | Туре                                                    | Quantity | Location             | Software /<br>Applicatio<br>n / OS /<br>DB | Proje<br>t<br>Nam |
|---------|----------------------------------------------------------|---------------------------------------------------------|----------|----------------------|--------------------------------------------|-------------------|
| Η       | IP DL-380 G8                                             | Rack Mount Server                                       | 1        | DC MEPCO             |                                            |                   |
| H       | IP BLc7000 enclosure                                     | Blade server enclosure                                  | 1        | DC MEPCO             |                                            |                   |
| H       | IP BL460c Gen 8                                          | Blade Servers                                           | 2        | DC MEPCO             | _                                          |                   |
| Η       | IP BL460c Gen 9                                          | Blade Servers                                           | 7        | DC MEPCO             | -                                          |                   |
| Η       | IP DL-360 Gen 9                                          | Rack Mount Server                                       | 2        | DC MEPCO             | 1                                          |                   |
| Η       | IP DL-60                                                 | Rack Mount Server                                       | 1        | DC MEPCO             |                                            |                   |
| Η       | IP 1840 Store Easy                                       | NAS                                                     | 1        | DC MEPCO             |                                            |                   |
| D       | Dell Equal Logic PS6210Xs                                | SAN                                                     | 1        | DC MEPCO             |                                            |                   |
| Η       | IP MSL 4048                                              | Tape Library                                            | 1        | DC MEPCO             |                                            |                   |
| Ju      | iniper SRX-3400                                          | Router Cum Firewall                                     | . 2      | DC MEPCO             |                                            | 6                 |
| Η       | luawei USG 6650                                          | NGFW                                                    | 2        | DC MEPCO             |                                            |                   |
| С       | isco 6807-XL                                             | Core Switch<br>(L2+L3+L4)                               | 1        | DC MEPCO             |                                            |                   |
| N<br>N  | I5K-C5548UP-FA Cisco<br>Jexus 5548Up Switch              | Switch                                                  | 1        | DC MEPCO             | Software                                   |                   |
| Ju      | iniper Srx-210                                           | Router Cum firewall<br>(Remote Offices)                 | 19       | MEPCO<br>FORMATION   | ERP-SAP<br>(PRD,                           |                   |
| С       | isco 2960-XL                                             | Access Switches for<br>HQ                               | 16       | MEPCO<br>FORMATION   | QAS, DEV,<br>SOL, App)                     |                   |
| С       | lisco 2960-XL                                            | Switch (Remote<br>Office)                               | 24       | MEPCO<br>FORMATION   |                                            | ERP               |
| С       | lisco C3650                                              | Switch (layer<br>2+Layer3)                              | 1        | MEPCO<br>FORMATION   | Linux<br>SUSE                              | 0/11              |
| А       | IR-CAP 1552                                              | Cisco Wireless Bridge                                   | 2        | MEPCO<br>FORMATION   | DB                                         |                   |
| А       | IR-CAP1602                                               | Cisco access point                                      | 17       | MEPCO<br>FORMATION   | SYBASE<br>ECC-6                            |                   |
| A<br>21 | PC UPS (650, 1KVA,<br>KVA)                               | UPS                                                     | 23       | MEPCO<br>FORMATION   |                                            |                   |
| P<br>Si | ower, Access Control, Fire<br>upperation& Cooling System | Power Modules,<br>Battery Modules, ATS<br>Panel, Genset | 1        | DC MEPCO             |                                            |                   |
| D       | Desktop PCs                                              | PCs                                                     | 350      | MEPCO<br>FORMATION   |                                            |                   |
| L       | aptop                                                    | Laptop                                                  | 25       | MEPCO<br>FORMATION   |                                            | -                 |
| U       | IPS                                                      | UPS                                                     | 350      | MEPCO<br>FORMATION   | -                                          |                   |
| H       | IP Printers                                              | Printers                                                | 125      | MEPCO<br>FORMATION   | -                                          |                   |
| So      | canner                                                   | Scanner                                                 | 53       | MEPCO<br>  FORMATION |                                            |                   |

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|-----------|----------------------------------------------------------------------------------|------------------------------|------------|---------------------------------------|----------------------------------------|---------------------------------------|
|           | <b>MEPCO SERVERS &amp; STO</b>                                                   | RAGE & Netwo                 | ork INFRAS | STRUCTURE (E                          | XISTING)                               |                                       |
| Sr.<br>No | Device Name                                                                      | Туре                         | Quantity   | Location                              | Software /<br>Application<br>/ OS / DB | Project<br>Name                       |
|           | SPARC T5-2 server 16 cores 3.6 GHz                                               | Server                       | 1          | DC PITC                               |                                        |                                       |
|           | Oracle ZFS Storage ZS3-2                                                         | SAN                          | 1          | DC PITC                               | -                                      |                                       |
|           | Cisco 3560X                                                                      | Switch                       | 1          | DC PITC                               | -                                      | · ·                                   |
|           | Cisco 5500                                                                       | FW                           | 1          | DC PITC                               | 4                                      |                                       |
|           | Cisco C-1941                                                                     | Router<br>(Remote<br>Office) | 9          | MEPCO<br>FORMATION                    |                                        |                                       |
|           | Cisco C-1921                                                                     | Router<br>(Remote<br>Office) | 1          | MEPCO<br>FORMATION                    |                                        |                                       |
|           | Cisco 800 Series                                                                 | Router                       | 18         | MEPCO<br>FORMATION                    |                                        |                                       |
|           | Cisco 2900 Series                                                                | Switch                       | 32         | MEPCO<br>FORMATION                    |                                        |                                       |
|           | UPS 10 KVA                                                                       | UPS                          | 2          | MEPCO<br>FORMATION                    | •                                      |                                       |
|           | KM-Pro-951                                                                       | Heavy Duty<br>Laser Printer  | 7          | MEPCO<br>FORMATION                    |                                        |                                       |
|           | Canon IR Adv 8595 & 6265 Printers                                                | Heavy Duty<br>Laser Printer  | 3          | MEPCO<br>FORMATION                    |                                        |                                       |
|           | HP M806                                                                          | Heavy Duty<br>Laser Printer  | 3          | MEPCO<br>FORMATION                    |                                        |                                       |
|           | Line Printers                                                                    | Heavy Duty<br>Laser Printer  | 11         | MEPCO<br>FORMATION                    |                                        |                                       |
|           | Desktop PCs                                                                      | PCs                          | 202        | MEPCO<br>FORMATION                    |                                        |                                       |
|           | Laptops                                                                          | Laptop                       | 12         | MEPCO<br>FORMATION                    |                                        |                                       |
|           | Printer                                                                          | Printer                      | 79         | MEPCO<br>FORMATION                    |                                        |                                       |
|           | UPS                                                                              | UPS                          | . 39       | MEPCO<br>FORMATION                    |                                        |                                       |
|           | Scanner                                                                          | Scanner                      | 1          | MEPCO<br>FORMATION                    |                                        |                                       |
|           | Dell Power Edge R430 Server<br>(Backup Server + Domain)                          | Rack Mount<br>Server         | 2          | DC MEPCO                              |                                        |                                       |
|           | Dell PowerEdge R730 Server ( HA<br>Cluster for Database & Application<br>Server) | Rack Mount<br>Server         | 2          | DC MEPCO                              | <u>Software</u><br>MicroStar<br>AMI    |                                       |
| ~         | Dell SCv2020 Storage System                                                      | SAN                          | 2          | DC MEPCO                              | <u>OS</u>                              |                                       |
| 3         | Dell Power Vault TL1000                                                          | Tape Library                 | 2          | DC MEPCO                              | Window                                 | RF                                    |
|           | Cisco ISR 4351 (3GE, 3NIM,25M,<br>4G Flash, 4G DRAM, IPB)                        | Router                       | 2          | DC MEPCO                              | Server 2012<br>DB<br>MS SOI            |                                       |
|           | Cisco Catalyst 3650 24 port Data<br>4x1G Uplink                                  | Switch                       | 2          | DC MEPCO                              | Mongo                                  |                                       |
|           | Brocode FC Switch                                                                | Switch                       | 2          | DC MEPCO                              |                                        |                                       |

Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

|           | MEPCO SERVERS & STO                                                                                 | RAGE & Netwo           | ork INFRAS | TRUCTURE (E | XISTING)                                   |                         |
|-----------|-----------------------------------------------------------------------------------------------------|------------------------|------------|-------------|--------------------------------------------|-------------------------|
| Sr.<br>No | Device Name                                                                                         | Туре                   | Quantity   | Location    | Software /<br>Application<br>/ OS / DB     | Project<br>Name         |
|           | PowerEdge R620, Intel ,Xeon , E-<br>26XX v2                                                         | Server                 | 5          | DC PITC     |                                            |                         |
|           | Backup & CDP Appliance Dell<br>PowerVault DL4000                                                    | Server                 | 1          | DC PITC     |                                            |                         |
|           | 1-NMS &1- vCenter Server Power<br>Edge R 320                                                        | Server                 | 2          | DC PITC     |                                            |                         |
|           | Equallogic PS6210E                                                                                  | SAN                    | 1 .        | DC PITC     | -<br>-                                     |                         |
|           | Dell Power Vault TL4000                                                                             | Tape Library           | 1          | DC PITC     |                                            |                         |
|           | MOXA GSM Modems N-Port (5610)<br>8 Port RS-232                                                      | Device Server          | 6          | AMI Cell    | Application<br>AMI Galaxy                  | 10 - 10<br>- 10<br>- 10 |
|           | Dell Sonic Wall NSA 4500 appliances                                                                 | FW                     | 1          | DC PITC     | <u>OS</u><br>Windows                       | $\cap$                  |
| 4         | Dell Netowrking N4032F, 24x<br>10GbE SFP + Fixed Ports, 1x<br>Modular bay, 2x Power Supplies        | Switch                 | 2          | DC PITC     | Server 2012<br>DB<br>MS SQL                | AMI                     |
|           | Dell Networking N3024, L3, 24x<br>1GbE, 2x10Gbe SFP + fixed ports,<br>stacking, IO                  | Router                 | 2          | DC PITC     | VM Ware-5                                  |                         |
|           | Sonicwall TZ 215                                                                                    | FW                     | 1          | AMI Cell    |                                            |                         |
|           | Mikrotik Router Board 750                                                                           | Firewall cum<br>Router | 1          | AMI Cell    |                                            |                         |
|           | Desktop PCs                                                                                         | PCs                    | 194        |             |                                            |                         |
|           | UPS                                                                                                 | UPS                    | 194        |             |                                            |                         |
|           | Printer                                                                                             | Printer                | 194        |             |                                            |                         |
|           | HP Proliant ML310c Gen8 Server<br>Machine                                                           | Server                 | 1          | DC PITC     | Application<br>Hexing AMI<br>G3            | EAS                     |
| 5         | Seltec Powerlink 1600 UPS 100AH                                                                     | UPS                    | 1          | DC PITC     | <u>OS</u><br>Windows<br>Server 2008        | AMR<br>KBK              |
| <br>      |                                                                                                     |                        |            |             | <u>DB</u><br>Oracle                        |                         |
| 6         | Data Base and Web Linus (Model:<br>Dell Power Edge R710, HDD: 1 TB,<br>RAM: 24GB, Cores: 4 [2.4GHz] | Server                 | 1          | DC PITC     | Application<br>AMI Galaxy<br>OS<br>Windows | EAS<br>AMR              |
|           | UPS alongwith batteries                                                                             | UPS                    | 1          | DC PITC     | Server 2012<br><u>DB</u><br>MS SQL         | MTI                     |

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|           | MEPCO SERVERS & STO                                                                                                                                                             | RAGE & Netwo       | ork INFRAS | TRUCTURE (E                                | XISTING)                                                   |                              |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|--------------------------------------------|------------------------------------------------------------|------------------------------|
| Sr.<br>No | Device Name                                                                                                                                                                     | Туре               | Quantity   | Location                                   | Software /<br>Application<br>/ OS / DB                     | Project<br>Name              |
|           | Web Server (HP Proliant ML310e<br>Gen8 Server Machine)                                                                                                                          | Server             | 1          | DC PITC                                    | Application<br>ESEP                                        |                              |
| 7         | UPS alongwith batteries                                                                                                                                                         | UPS                | 1          | DC PITC                                    | <u>OS</u><br>Windows<br>Server 2008<br><u>DB</u><br>MS SQL | AMR<br>IMS                   |
| 8         | Core i5 (HP Elite Desk 800 G2)<br>Tower PC with 16 GB RAM                                                                                                                       | Computer<br>System | 1          | DC MEPCO                                   | Windows<br>Server 2018<br>(Temporary<br>basis)             | Unmann<br>ed Grid<br>by KICS |
| 9         | CISCO Small Buisness RV042                                                                                                                                                      | Switch             | 1          | МРСС                                       | -                                                          | MPCC                         |
| 10        | HP Itanium, rx 3600 / rx 2620-2, 1.4<br>GHz, 2 Processors, Dual Core, 4 GB<br>RAM, 3 x 146 GB SASH DD,<br>DAT72 & Ultrium 448, redundant<br>Power Supplies, rack mount 17" TFT. |                    | 5          | IT Centers,<br>Multan, DGK,<br>Bahawalpur, | App<br>WEB<br>OS                                           | Cobol<br>Billing             |
|           | UPS Emerson 10 KVA, GE 6 KVA,<br>Voltac 3 KVA                                                                                                                                   | UPS                | 14         | Sahiwal & RYK                              | Open VMS                                                   | Infra                        |
|           | Stablizer 10 KVA GL-10 KVAST                                                                                                                                                    | Stablizer          | 3          |                                            | -                                                          |                              |
| 11        | Bio Matric Machines ZK Techo                                                                                                                                                    | BioMatric          | 16         | MEPCO<br>FORMATION                         | -                                                          | Other                        |

Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

### vi. Commercial Management

The commercial operations of MEPCO were legacy based and did not offer much in terms of transparency, data accuracy, system efficiency and services to consumers. Therefore, there was a dire need to improve commercial procedures and bring them at par with best practices adopted by utilities worldwide. With the vision to improve the overall commercial operations MEPCO implemented an optimal fusion of activities that would be in order to revolutionize the business practices adopted by MEPCO which took its commercial operations many steps further.

The old billing system of MEPCO was characterized by manual and cumbersome processes, inadequate controls, insufficient commercial focus, limited transparency and a lack of reliable information. Therefore, CIS, which is the critical backbone of customer care and commercial operations, was implemented at all over MEPCO.

As far as meter reading process is considered, the orthodox practice was recording the reading and calculating the consumption on customer records (Kalamzu card), transferring this data to the meter reading list, obtaining approval for the compiled readings by operating personnel and then entering the reading and the consumption into the computer which was a time consuming process leaving little or no time to verify suspect readings. Therefore, data manipulation and transcription errors were common causing the entire process to be highly inefficient with poor internal controls. In response to this, MEPCO implemented the IMR initiative under which the process of meter reading was re-engineered and the role of the MIS directorate was increased to maintain registers electronically, eliminate redundancies and ensure better monitoring methods. The HHUs were implemented in two Circles of MEPCO with help of USAID PDP.MEPCO Subsequently implemented meter reading through HHUs in all operation circles. MEPCO replaced HHUs with Mobile phones with better operational efficienciesi.e, 2037 Nos., larger mega pixels, cameras with zoom and retake facilities. MEPCO has achieved Accuracy %age upto 96% by the end of June 2020 and is committed to achieve 100% accuracy level.

The following table illustrates the trend of units purchased from CPPA and subsequent billing to the consumers by MEPCO:

(Units in GWh)

| Description               | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 |
|---------------------------|---------|---------|---------|---------|---------|
| Units Received from CPPA  | 14,763  | 15951   | 19006   | 19367   | 19327   |
| Units Billed to Customers | 12,341  | 13253   | 15853   | 16310   | 16382   |
| Units Lost                | 2,423   | 2698    | 3153    | 3057    | 2945    |
| Losses (%)                | 16.4    | 16.9    | 16.6    | 15.8    | 15.2    |

|                                  |         | <u>(F</u> | evenue in Million | Ks)     |
|----------------------------------|---------|-----------|-------------------|---------|
| Description                      | 2016-17 | 2017-18   | 2018-19           | 2019-20 |
| Revenue Billed to Customers      | 141744  | 176024    | 209568            | 239410  |
| Revenue Collected from Customers | 140986  | 175458    | 209146            | 225540  |
| Revenue Collection (%)           | 99.47   | 99.68     | 99.80             | 94.21   |
| AT &C Losses (%)                 | 17.4    | 16.9      | 15.9              | 20.2    |

The Table below gives an illustration of the billing and collection pattern of MEPCO:

Moreover, net- metering has been established in MEPCO. NET-Metering Generates low cost electricity during daytime, when power demand maximizes and MEPCO is unable to provide peak demand load and is helping in relieving MEPCO distribution system overloading, as solar power through net-metering is consumed in homes and adjoining areas. Power generation through net-metering can be rapidly financed/implemented by home owners through own resources or bank loans. It enables conservation of hydel power during daytime to provide higher dispatch of hydel power at night and is offering potential to rapidly grow MEPCO distributed power through 'net-metering' resulting in saving on power transmission cost and losses. Currently Net Metering Cell in MEPCO has achieved the 300 Nos connections target.

MEPCO has established Net Metering Cell to facilitate the application process & to submit its progress to PEPCO. Moreover, the procurement of Bidirectional Meters is under process at Manager MM (Procurement).

### vii. Internal Control

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### Investment Approval

The company has adopted WAPDA procedures and PEPCO approved book of Financial Powers for processing all types of expenditures. The above documents prescribe financial and administrative powers of various offices for different type of expenditures.

The investment program is categorized into three components: Development of Power, Rehabilitation / Energy Loss Reduction and Secondary Transmission Lines and Grid Stations and now been transformed into the Distribution Integrated Investment Plan (DIIP)/ Business Plan, which also covers other functional areas plans as well.

The Planning Department under supervision of CEO and Chief Engineer and in consultation with Operation, Finance and other Directorates prepared PC-1s for DOP, ELR & STG. The PC-1s were submitted to Planning Division of GOP after approval of BOD/Authority for final approval from ECNEC and subsequently they were approved. The approved PC-1s are the basis of annual investment. At present the Development Working Party (DWP) has been formed to approve the DOP,

ELR & STG plans based on MEPCO's own resources and they are under approval process. Now DIIP will be utilized for getting regulatory approval first and then taking the desired course of approval, based on funding sources.

#### Internal Audit

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There are three types of audits conducted in MEPCO Internal Audit, Govt. Audit and Audit by a chartered company. Each has different scope and objectives. The internal audit processes of MEPCO are governed by the legacy systems which have missed the mark to adequately identify non-compliance with existing procedures such as:

- Units consumed but consumer not billed
- Damaged or slow meters
- Inaccurate meter reading
- Units billed to nonexistent consumers
- Failure to monitor accounts with payment arrangements

Under the co-sourcing arrangement, a co-sourcing partner was hired through PDP provided assistance to MEPCO to implement a risk based audit approach as defined in the new internal audit manual for a period of one year. After a year, the performance of the audit function was evaluated and it was revealed that the internal audit function has significantly improved as the desired controls were established with in the processes. The capacity and capability of the internal audit staff was also increased.

#### viii. Legal and Contractual Framework

The primary function of MEPCO is to distribute electrical power to the residents and industries within its service area.

The important legal and regulatory documents, principal contracts, and laws under which MEPCO must operate are:

- The Companies Ordinance 1984
- MEPCO Memorandum of Association
- MEPCO Articles of Association
- Distribution License 2002
- NEPRA Performance Standard 2005
- Income Tax Ordinance 2001

The Companies Ordinance of 1984 encompasses all the rules and regulations for businesses registered with Security Exchange Commission of Pakistan (SECP). The Ordinance provides legal protection to the businesses, with the SECP keeping a close check on financial and corporate entities to ensure the stakeholders' interest. According to the Ordinance, MEPCO has to follow the Memorandum of Association and Articles of Association.

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# Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

According to its Memorandum of Association, in May 1998, MEPCO was incorporated as a Limited Liability Company with the right to acquire properties and grid stations of WAPDA with the sole purpose of carrying on and expanding the business and supplying electricity to the areas formerly supplied by the Multan Area Electricity Board (AEB). Similarly, the Companies Ordnance of 1984 provides a framework of rules and regulations to MEPCO, known as its Articles of Association, which cause MEPCO to be classified as a Public Limited business and therefore subject to the laws which apply to such corporations.

In April 2002, NEPRA granted a distribution license to MEPCO as per section 21 of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997. According to it, MEPCO can engage in distribution services and make sales of power to consumers in the Service Territory and the Concession Territory subject to and in accordance with the terms and conditions of the license.

NEPRA also prescribes separate performance standards for generation, transmission and distribution of safe, efficient and reliable electric power to all the consumers.

Additionally, the taxation system is defined by the Income Tax Ordinance of 2001. Like all DISCOs, MEPCO has to comply with this Ordinance and file the following returns:

- Annual income tax return
- Monthly sales tax return
- Statement of deductions and calculations
- Monthly withholding tax
- Quarterly advance tax

The following deductions are made by MEPCO and are duly submitted to the Government of Pakistan:

• Sales tax

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- Withholding tax on sales tax
- Withholding tax on goods
- Withholding tax on sales

# Section -III Forecasts for Next Five Years

Through Power Market Survey (PMS), MEPCO prepares the forecast ten years. The actual Statistics for the Year 2019-20 are provided. The forecasts for the period of FY 2020-21 to FY 2024-25 are tabulated in this section. Additionally, the generation plan is prepared centrally by NTDC that is also attached.

| Category/<br>Year | Domestic | Commercial | Small<br>Industry | Industrial | Bulk | T/<br>Well | Public<br>Light | Others | Total   |
|-------------------|----------|------------|-------------------|------------|------|------------|-----------------|--------|---------|
| 2019-20           | 6090985  | 579011     | 46905             | 10636      | 457  | 93884      | 1592            | 37840  | 6861310 |
| 2020-21           | 6334624  | 602171     | 48781             | 11061      | 475  | 97639      | 1656            | 39354  | 7135762 |
| 2021-22           | 6588009  | 626258     | 50732             | 11504      | 494  | 101545     | 1722            | 40928  | 7421193 |
| 2022-23           | 6851530  | 651309     | 52762             | 11964      | 514  | 105607     | 1791            | 42565  | 7718041 |
| 2023-24           | 7125591  | 677361     | 54872             | 12443      | 535  | 109831     | 1862            | 44267  | 8026762 |
| 2024-25           | 7410615  | 704455     | 57067             | 12940      | 556  | 114224     | 1937            | 46038  | 8347833 |

## i. Consumer Growth by Category

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## ii. Energy and Demand Forecasts

Category-wise Energy Sales (GWh) - Including Load Shedding

| Description      | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|------------------|---------|---------|---------|---------|---------|
| Domestic         | 10437   | 11096   | 11758   | 12447   | 13178   |
| Commercial       | 1165    | 1265    | 1369    | 1475    | 1584    |
| Public Light     | 24      | 29      | 34      | 40      | 45      |
| Small Industries | 442     | 516     | 590     | 664     | 740     |
| M&L Industries   | 2333    | 2384    | 2421    | 2447    | 2474    |
| Tube Well        | 3713    | 4053    | 4394    | 4737    | 5081    |
| Bulk             | 282     | 281     | 281     | 281     | 280     |
| TOTAL            | 18295   | 19623   | 20847   | 22091   | 23383   |
| Growth %         | 9.8     | 6.7     | 6.2     | 6       | 5.8     |

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Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

| Description      | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|------------------|---------|---------|---------|---------|---------|
| Domestic         | 10226   | 10886   | 11548   | 12238   | 12968   |
| Commercial       | 1142    | 1241    | 1344    | 1450    | 1559    |
| Public Light     | 23      | 28      | 34      | 39      | 45      |
| Small Industries | 433     | 506 .   | 579     | 653     | 728     |
| M&L Industries   | 2286    | 2339    | 2378    | 2406    | 2434    |
| Tube Well        | 3638    | 3976    | 4316    | 4657    | 5000    |
| Bulk             | 276     | 276     | 276     | 276     | 276     |
| TOTAL            | 18023   | 19252   | 20475   | 21719   | 23011   |
| Growth %         | 10      | 6.8     | 6.4     | 6.1     | 5.9     |

Category-wise Energy Sales (GWh) - Excluding Load Shedding

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# Category-wise Demand (MW) - Including Load Shedding

| Description      | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|------------------|---------|---------|---------|---------|---------|
| Domestic         | 2805    | 2909    | 3012    | 3115    | 3225    |
| Commercial       | 295     | 351     | 410     | 463     | 512     |
| Public Light     | 6       | 6       | 7       | 7       | 7       |
| Small Industries | 51      | 62      | 74      | 83      | 92      |
| M&L Industries   | 385     | 393     | 405     | 407     | 406     |
| Tube Well        | 734     | 765     | 796     | 825     | 853     |
| Bulk             | 30      | 31      | 31      | 31      | 31 .    |
| TOTAL            | 3542    | 3713    | 3890    | 4049    | 4207    |
| Growth %         | 9.5     | 4.8     | 4.8     | 4.1     | 3.9     |

Category-wise Demand (MW) -Excluding Load Shedding

| Description      | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|------------------|---------|---------|---------|---------|---------|
| Domestic         | 2628    | 2661    | 2784    | 2912    | 3051    |
| Commercial       | 276     | 321     | 379     | 433     | 484     |
| Public Light     | 6       | 6       | 6       | 6       | 6       |
| Small Industries | 48      | 56      | 68      | 77      | 87      |
| M&L Industries   | 361     | 360     | 375     | 381     | 384     |

| Tube Well | 688  | 700  | 735  | 771  | 807  |
|-----------|------|------|------|------|------|
| Bulk      | 29   | 28   | 28   | 29   | 29   |
| TOTAL     | 3317 | 3396 | 3594 | 3785 | 3980 |
| Growth %  | 4.6  | 2.4  | 5.8  | 5.3  | 5.2  |

### iii. Generation Forecast and Power Acquisition Program

Apart from aggressive generation additional plan out-side MEPCO's territory, widespread variable renewable generation (Solar Power) influx in is also planned in MEPCO's territory, along with coal based conventional power plants coming on bar in next five years. Quaid-e Azam Solar Park, Sahiwal Coal Power plant have been implemented in MEPCO's territory. Please see **Annexure-3** for generation plan recently finalized by NTDC.

### iv. Analysis

As depicted above, the power demand of the customers is growing rapidly, and extensive generation is being added. With overloaded transmission and distribution system, if proper plan like DIIP is not approved, implemented, monitored and closed in-time, then the customers will not get relieve and the whole generation investments can go down the drain.

# Section -IV Next Five Years Goals and Objectives

### i. Goals and Objectives Matrix

The goals are long term targets and objectives are medium term targets. The objectives defined by MEPCO are SMART i.e. Specific, Measurable, Attainable, Realistic and Timely. The target setting has been done keeping in view what can be <u>achieved optimally</u> in next five years. Table below (DIIP4) lists the goals and objectives for next five years for the company, are prepared by extensive discussions and coordination within MEPCO and the signed-off goals and objectives from initial exercise are placed at Annexure-4:

| Strategic                                | Strategic Objectives                                                               | Target                 | Measurement   | Five Year Objectives FY 2020-21 to 2024-25 |          |          |          |                                | uring<br>m       |
|------------------------------------------|------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------------------|----------|----------|----------|--------------------------------|------------------|
| Goals                                    |                                                                                    | Measurement            | FY 2019-20    | 2020-21                                    | 2021-22  | 2022-23  | 2023-24  | 2024-25                        | Suppo<br>Pla     |
| 1.0 Improve<br>Operational<br>Efficiency | 1.1 Reduce overall electricity losses                                              | %.of kWh               | 15.2%         | 15.0%                                      | 14.75%   | 14.6%    | 14.4%    | 14.3%                          |                  |
|                                          | Improving voltage profile To meet<br>specified regulatory performance<br>standards | % of specified voltage | (+ -) 13%     | Improved                                   | Improved | Improved | Improved | Within<br>acceptable<br>limits | ribution Plan    |
|                                          | Improve power factor to meet specified regulatory standards                        | 0.95%                  | Average 0.92  | improved                                   | Improved | Improved | Improved | Average<br>0.95                | mission and Dist |
|                                          | Reduce distribution transformers<br>failure rate to <1%                            | Less than 1%           | Reported 0.3% | Improved                                   | Improved | Improved | Improved | Improved                       | DIIP-Trans       |
| •                                        | Improve HT/LT ratio to 2:1                                                         | Ratio                  | 1.56:1        | Improved                                   | Improved | Improved | Improved | Improved                       |                  |

DHP1 - Goals and Objectives Matrix

| Strategic                                |                                                                                  | Target                                        | Measurement                                                                               | Five Year (                              | Objectives F     | Y 2020-21 t      | o 2024-25         |                   | ting                            |  |
|------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------|------------------|------------------|-------------------|-------------------|---------------------------------|--|
| Goals                                    | Strategic Objectives                                                             | Measurement                                   | FY 2019-20                                                                                | 2020-21                                  | 2021-22          | 2022-23          | 2023-24           | 2024-25           | Suppor<br>Plar                  |  |
|                                          | 1.1.2 Reduce Commercial Loss                                                     | % of KWh                                      | 0.3 % loss has<br>been reduced.<br>Therefore 1%<br>commercial<br>loss will be<br>reduced. | 0.3%                                     | 0.2%             | 0.2%             | 0.2%              | 0.1%              | al improvement Plan<br>(CIP)    |  |
|                                          | 1.2 Maintain Revenue recovery up to 100%                                         | %age billed<br>amount<br>excluding<br>subsidy | 100%                                                                                      | 100%                                     | 100%             | 100%             | 100%              | 100%              | P-commercia                     |  |
|                                          | 1.3 Reduce meter reading to bill delivery time 1 days                            | Days                                          | 7                                                                                         | 7                                        | 7                | 7                | 7                 | 7                 |                                 |  |
| 1.0 Improve<br>Operational<br>Efficiency | 1.4 Improve SAIDI/SAIFI To meet<br>specified regulatory performance<br>standards | Hours/No.'s                                   | Over specified<br>limits of NEPRA                                                         | To comply with NEPRA specified standards |                  |                  |                   | lards             | ہ۔<br>sion &<br>on Plan         |  |
|                                          | 1.5 Eliminate fatal & non-fatal accidents                                        | No of<br>accidents                            | 10/10                                                                                     | Eliminate                                | Eliminate        | Eliminate        | Eliminate         | Eliminate         | DIIF<br>Transmis<br>Distributi  |  |
|                                          | 1.6 Automation of Financial, HR<br>and Material Management<br>Processes          |                                               | Partial Through<br>ERP                                                                    | Partial<br>DISCO                         | Partial<br>DISCO | Partial<br>DISCO | Complete<br>DISCO | Complete<br>DISCO | l Managemen<br>nt Plan (FMIP)   |  |
|                                          | 1.7 E-Transfer of bank scrolls by 100%                                           | %age of<br>collection                         | 60% of<br>collection                                                                      | All                                      |                  |                  |                   |                   | DIIP-Financial  <br>Improvement |  |

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|                                  |                                                                                    |                            |                                            | Five Year                              | Objectives F                   | / 2020-21 t | o <b>2024-2</b> 5 |           | <b>L</b>               |
|----------------------------------|------------------------------------------------------------------------------------|----------------------------|--------------------------------------------|----------------------------------------|--------------------------------|-------------|-------------------|-----------|------------------------|
| Strategic<br>Goals               | Strategic Objectives                                                               | Target<br>Measurement      | Measurement<br>FY 2019-20                  | 2020-21                                | 2021-22                        | 2022-23     | 2023-2            | 4 2024-25 | Support<br>g<br>Plan   |
|                                  | SAP Pension System                                                                 | HCM System<br>Improvement  | -                                          | Work in<br>Process                     | 70%                            | 30%         | 1009              | % 100%    | Plan                   |
|                                  | SAP HCM Workflows                                                                  | HCM System<br>Improvement  | -                                          | 20%                                    | 60%                            | 20%         | 1009              | % 100%    | ement                  |
|                                  | SAP E-tendering                                                                    | MM System<br>Improvement   |                                            | 10%                                    | 90%                            | 100%        | 1009              | % 100%    | nprov                  |
| Improve SAP                      | SAP FICO Integration with CIS (ORACLE)                                             | FICO System<br>Improvement |                                            | NIL                                    | 20%                            | 40%         | 40%               | 6 100%    | nent Ir<br>11P)        |
| •                                | SAP Plant Maintenance/Project<br>System                                            | New SAP<br>Module          | -                                          | NIL                                    | 10%                            | 25%         | 25%               | 6 40%     | nagen<br>(FN           |
|                                  | SAP Dash Board                                                                     | New SAP<br>Module          |                                            | NIL                                    | NIL                            | 40%         | 60%               | 6 100%    | ial Ma                 |
|                                  | SAP Upgrade to HANA                                                                | Improvement<br>SAP         |                                            | NIL                                    | NIL                            | NIL         | 20%               | 80%       | Financ                 |
| Improve<br>Regulatory<br>Affairs | 1.12 Regulatory MYT Affair                                                         | 5 Year MYT<br>Petition     | -                                          | -                                      | - Determination / Notification |             |                   |           |                        |
|                                  | 2.1 Reducing complaints related to billings to less than 0.1%                      | %age of total consumers    | 0.2 %                                      | 0.1%                                   | 0.1%                           | <0.1%       | · <0.1%           | <0.1%     |                        |
| 2.0                              | 2.2 Minimize New Connections installation duration                                 | No of days                 | NEPRA's<br>Guidelines not<br>complied with | To Compl                               | y with Consı                   | mer Servic  | e Manual          |           | nercial<br>t Plan(CIP) |
| Customer Care<br>and Service     | 2.3 Minimize Reconnection<br>installation duration                                 | No of days                 | NEPRA's<br>Guidelines not                  | To Comply with Consumer Service Manual |                                |             |                   |           | )IIP-comr<br>ovement   |
| *<br>*                           | 2.4 Maximize the time between<br>date of receipt of bill and due date<br>(10 days) | Days                       | 7                                          | 7                                      | 10                             | 10          | . 10              | 10        | impr                   |

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|                                          |                                                                                                                                                                                                                                                  |                       |                       |                                                                                               | Five Year (                                                                 | Objectives F | Y 2020-21 to | o 2024-25 |                       | p               | o       |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------|--------------|-----------|-----------------------|-----------------|---------|
| Strategic<br>Goals                       | Strategic Obje                                                                                                                                                                                                                                   | ctives                | Target<br>Measurement | FY 2019-20                                                                                    | 2020-21                                                                     | 2021-22      | 2022-23      | 2023-24   | 2024-25               | Support         | Plan    |
|                                          |                                                                                                                                                                                                                                                  | <u>3.1 Human-ware</u> |                       |                                                                                               |                                                                             |              |              |           |                       |                 |         |
|                                          | 3.1.2 Start Training & capacity<br>building initiatives                                                                                                                                                                                          |                       |                       | Legacy training                                                                               | g Training needs analysis (TNA), Training plans                             |              |              |           |                       |                 | nt Plan |
|                                          |                                                                                                                                                                                                                                                  | 3.2 Orgaware          |                       |                                                                                               |                                                                             |              |              |           |                       | - <u></u>       |         |
| 3.0 Improve<br>MEPCO's<br>Infrastructure | Improve<br>O's<br>cructure<br>3.2.1 Manpower Plan & Revision o<br>Organization Structure<br>3.2.2 Improve office facilities,<br>Training Facilities / work<br>environment<br>3.2.5 Improvement in health &<br>education facilities for employees |                       |                       | Implemented                                                                                   | d Align organization structure with Business Strategy                       |              |              | egy       | ement Plan            |                 |         |
|                                          |                                                                                                                                                                                                                                                  |                       |                       | Inadequate<br>facilities                                                                      | Needs improvement                                                           |              |              |           | Irce Improve<br>HRIP) |                 |         |
|                                          |                                                                                                                                                                                                                                                  |                       |                       | Health Care<br>Policy<br>Implemented<br>& new<br>educational<br>scholarship<br>under approval | Approval by BOD for Well fare Policies particula<br>ducational scholarships |              |              |           | articularly           | DllP-Human Reso |         |

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| Strategic Goals                                      | Strategic Objectives                  | Target      | Measurement                | Five Year                    | orting       |             |                                       |                |                                        |
|------------------------------------------------------|---------------------------------------|-------------|----------------------------|------------------------------|--------------|-------------|---------------------------------------|----------------|----------------------------------------|
|                                                      | *                                     | Measurement | FY 2019-20                 | 2020-21                      | 2021-22      | 2022-23     | 2023-24                               | 2024-25        | Suppo<br>Plan                          |
|                                                      | <u>3.3 Techno ware</u>                |             |                            | · · · ·                      |              | - <b>1</b>  |                                       | <u>- h, ,,</u> | · · · · · · · · · · · · · · · · · · ·  |
|                                                      |                                       |             |                            |                              |              |             | · · · · · · · · · · · · · · · · · · · | <u> </u>       | ial<br>Ian                             |
| •                                                    | 3.3.1 AMI expansion                   |             | AMI Project<br>being       | All remainin                 | g 212570 Th  | ree Phase m | eters will be o                       | converted to   | mmerc<br>ment P<br>CIP)                |
| 1997 - 1997<br>• 1997 - 1997<br>• 1997 - 1997 - 1997 |                                       |             | expanded                   | Smart Meter                  | ſS.          |             |                                       |                | DIIP-Co<br>Improve<br>((               |
|                                                      |                                       |             |                            |                              |              |             |                                       |                | on and<br>Plan                         |
| 3.0 Improve<br>MEPCO's<br>Infrastructure             | 3.3.2 P&E expansion to GIS<br>Mapping |             | Fully<br>implemented       | Further impr                 | ovement in ! | 5-years     |                                       |                | ransmissi<br>tribution l               |
| •                                                    |                                       |             |                            |                              |              |             |                                       |                | T-9110                                 |
|                                                      | <u>3.4 Infor ware</u>                 |             |                            | 1.                           |              |             |                                       |                |                                        |
|                                                      |                                       |             |                            |                              | ÷ .          |             | •                                     |                | cial<br>ent<br>it Plan                 |
|                                                      | 3.4.1 Implement ERP & its rollout     |             | ERP project<br>implemented | IT infrastruc<br>implemented | ture to be   | extended a  | ind new mo                            | dules to be    | IP-Finan<br>anagem<br>ovemen<br>(FMIP) |
|                                                      |                                       |             |                            |                              |              |             |                                       |                |                                        |

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|                 |                                            |                                        | Five Year Objectives FY 2020-21 to 2024-25                                                                                                                                                                                                                                                                                                         | <b>.</b>                               |
|-----------------|--------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Strategic Goals | Strategic Objectives Target<br>Measurement | Measurement<br>FY 2019-20              | 2020-21 2021-22 2022-23 2023-24 2024-25                                                                                                                                                                                                                                                                                                            | Supporting<br>Plan                     |
|                 | 3.4.2 Implement CIS & its rollout          | CIS completed<br>in all Circles        | Time to time development as per the requirements of data based on consumers                                                                                                                                                                                                                                                                        | in (CIP)                               |
|                 | 3.4.3 Strengthening Data Centre            | Complete<br>Operational<br>data Centre | Full Utilization of Data Centre by replacing the End of Life (EOL)<br>equipment with updated technology and smooth transition of<br>applications accordingly.<br>Shifting of CIS/AMI/GIS servers from PITC Data Center at<br>Lahore to MEPCO Data Center, Multan as MEPCO Data Center,<br>Multan is well equipped as compared to PITC Data Center. | DIIP-Commercial<br>Improvement Pla     |
|                 | 3.4.4 Improve communications through email | Paper based<br>communication           | Promote e-communication culture (outlook)                                                                                                                                                                                                                                                                                                          | DIIP-<br>Communic<br>ation<br>Improvem |

In the above table the goals for MEPCO are divided into five major categories (i) Improve operational efficiency (this includes technical (transmission and distribution systems operational efficiency<sup>1</sup>), financial, commercial, human resource, employee safety etc. (ii) Customers Services and Care, (iii) Improve DISCOs Infrastructure (with only top priority projects under the four heads defined that need highest of attention).

<sup>&</sup>lt;sup>1</sup> NEPRA Performance Standards (Distribution) Rules, 2005 and Distribution Codes were consulted while preparing these objectives.



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# ii. Rationale for Setting Goals and Objectives and the Planning Criteria for Proposed Investments

The goals and objectives that have been narrated under DIIP-4 were prepared after extensive discussions and coordination efforts within MEPCO. These are the targets that MEPCO has set and the projects / initiatives have been identified to meet these set targets. The resources requirements for the best case were far more than the capacity of MEPCO to fund and execute. Initiatives have been identified and prioritized under the optimally achievable scenario keeping in view, the following factors:

- a. The reliable dispersal of power, especially the power that will be injected within MEPCO in next five years, including the variable renewables.
- b. MEPCO can arrange funding only up to Rs. 82,921 Millionas required under the achievable scenario and not Rs. 113,123 Millionas required under best case.
- c. Capacity to procure and execute is another constraint that has limited MEPCO's capability to implement the achievable scope, not the larger scope envisaged under best scenario developed.
- d. Meeting the technical parameters specified in the Grid Code, Distribution code performance standards and consumer service manual.
- e. Loss reduction from 15.2% in FY 2019-20to 14.3% in FY2024-25, the loss improvement potential saturates as the losses are further decreased and improving/maintaining collections.
- f. Improving internal controls, faster information availability and quality of data through backoffice automation.
- g. Improving the competencies of the employees and their morale, through training capacity building and incentives.
- h. Improving corporate brand image by improving internal and external communications.
- i. Safety of line-staff is a key part of DIIP, includes special focus on LM safety.
- j. Return on investment is also considered while planning and prioritizing the interventions.
- k. Other objectives (social uplift e.g. village electrification) are part of the plan as well.

# Section -V

# Projects and Programs – Scope

### A. Secondary Transmission System

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This section covers scope for the expansion and rehabilitation of secondary transmission network (132 kV and or 66 kV) of MEPCO.

MEPCO has prepared plan for five years from 2020-21 to 2024-25 that if implemented would have completely revamped the transmission network and enabled the DISCOs to achieve the NEPRA's specified Performance Standards of Distribution and provision of the Distribution Code, especially the Distribution Planning Code issued by NEPRA.

After reviewing the existing MEPCO system, the scope of work comprising of new 132kV grid stations & transmission lines, rehabilitation, augmentation / extension at existing grid stations and conversion of existing 66kV grid stations into 132kV voltage level has been finalized by considering the anticipated future load demand in the various areas of MEPCO.

The proposed sub Transmission Lines and Grid Stations works for DISCO also includes the scope for "Deposit Work" and these works are separately identified in the formats below:

### Load Flow Studies for Five Year Plan

This section covers the load low flow peak-cases for of the five years (FY 2020-21 to 2024-25). The assumptions and results of these studies are discussed under this section and detailed plots are referred in the Annexures. Special situation, for instance, integration with Solar Power (large induction) over a specified period in MEPCO has been paid special attention in the studies.

As per NEPRA's guidelines provided in the DIIP formats, MEPCO has prepared the case that if implemented will completely revamp the transmission network and enable the DISCOs to achieve the NEPRA's specified Performance Standards Distribution and provision of the Distribution Code, especially the Distribution Planning Code issued by NEPRA.

The other objectives of the studies are identification of any reinforcements required with the proposed sub-projects in terms of new lines, new substations, transformer addition/augmentation, reactive power compensation and switchgear addition/replacement at the substations, in addition to the already planned/under execution projects in MEPCO. The benefits of the proposed sub-projects to the network of MEPCO have also been determined through system studies and are discussed below.

Existing STG network of MEPCO is under great stress & its loading position is increasing day by day due to increase in power demand. The perpetuity of hidden load growth by the consumers is compelling the company to go for repeated progression in rehabilitating / upgradation of the existing STG system. For this, construction of new grid station and transmission system along-with rehabilitation & re-modeling of existing network is urgently required, to meet the transmission system efficiency and stability to evacuate power from SPP's and deliver adequately & quality power to various existing & upcoming customers.

## Methodology of Analysis - Load Flow Studies

The methodology of system studies/analysis for these cases is given as under:

i. Under this DIIP, MEPCO's network expansion plan including already planned/underexecution projects have been included.

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- ii. The proposed sub-projects to be implemented have been identified through load flow studies and identified separately.
- iii. The complete system model of the National Grid has been simulated, i.e., system network of not only the MEPCO but also of NTDC and the neighboring DISCOs have been simulated for the purpose of analysis.
- iv. The assumptions on which the system studies are based have been mentioned with necessary details below.
- v. Two type of analysis, i.e., load flow and short circuit, have been carried out and their results have been presented in the report.
- vi. Load flow analysis has been carried out for the steady state normal system operating condition in order to:
  - Assess adequacy of the network to feed the proposed sub- projects.
  - Determine any additional transmission reinforcement and/or reactive compensation requirement for the scope of work of sub-projects.
  - Justification of proposed projects.
  - Determine the benefits of the above proposed works at substations and transmission lines in terms of reduction in transmission losses, improvement in voltage profile, reduction in loading of transmission lines or transformers, spare capacity margin in the transmission system.
- vii. Conclusions and recommendations on the basis of technical analysis have been presented at the end.

#### Assumptions – Load Flow Studies

The load flow studies are based on the following assumptions:

- i. Latest PMS load forecast, attached as Annexure-5. The diversified values of the peak projected loads on substations, existing and new, have been modeled as per latest PMS load forecast. The loads have been adjusted as per the ratio between MEPCO Peak including load shedding and the algebraic sum of recorded individual peaks of the substations of MEPCO. This diversified peak is modeled in the load flow cases for FY 2020-21 to FY 2024-25 that helps in identifying scope for transmission lines.
- ii. The scope of substation is derived from their individual undiversified peaks separately in excel based models. This scope identified is then modeled in the load flow cases.

- iii. Generation expansion plan utilized in the load flow studies is attached with document. All the existing as well as the proposed power plants, both in public and private sectors have been assumed in operation in all the study scenarios as per their expected commissioning schedules
- iv. The transmission expansion plans of NTDC.
- v. Latest MEPCO's planned/on-going transmission expansion/re-enforcement projects, including substations (extension, augmentation, conversion, new), transmission lines have also been simulated in the studies as per their expected commissioning schedules
- vi. The existing and planned shunt capacitors at 11 kV and 132 kV have been modeled in the study scenarios. However, additional shunt capacitors have also been recommended to compensate the reactive power where net power factor at the substations have been found too low.

### Study Criteria- Load Flow Studies

The load flow studies have been carried out keeping in view the following criteria in the MEPCO's network:

- Voltage Limits: ±5% under normal operating conditions.
- Loading of transmission lines and transformers have been kept within 100% of their capacities under normal operating conditions.
- N-1 contingency analysis has been carried out and additional scope to meet that criteria is also simulated.

#### **Results of Load Flow Studies**

Load flow studies have been carried out with already planned/on-going projects; and with & without proposed subprojects in 5 year plan to study their impact on the system network. The system scenarios of peak load conditions of years 2021 to 2025 have been simulated.

The year wise Single line diagram of the system showing voltage profile and MW/MVAR flows are **Annexure-6** for five year (FY 2020-21 to FY 2024-25)

#### i. Year Wise Voltage Profile

It is evident from the study exhibits that voltage profile will improve and becomes within permissible limits. The detail of proposed rehabilitation and there effects is show in the single line diagram (Annexure-7).

ii. Year Wise Loading Position - For Grids refer to the Excel Sheet and for T/Lines refer to plots of Load Flow

Load flow studies have also been carried out for both Best and optimally achievable system scenario with the proposed rehabilitation in form of Conversions, 132 kV Capacitors and New transmission Lines and year wise Grid Stations and Transmission lines are attached (Annexure-8)

| T.      | MW   | Units (MKWh) |
|---------|------|--------------|
| Year    | Best | Best         |
| 2020-21 | 52.5 | 199          |
| 2021-22 | 30.2 | 114          |
| 2022-23 | 9.7  | 37           |
| 2023-24 | 7.5  | 28           |
| 2024-25 | 4.7  | 18           |

## iii. Reduction In Losses (Best Case)

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# iv. Reduction In Losses (Achievable Case)

| Veet    | MW         | Units (MKWh) |
|---------|------------|--------------|
| Icar    | Achievable | Achievable   |
| 2020-21 | 30         | 113          |
| 2021-22 | 33.6       | 127          |
| 2022-23 | 20.0       | 76           |
| 2023-24 | 5.6        | 21           |
| 2024-25 | 9.4        | 36           |

## Expansion and Rehabilitation (Best Case) - Scope

The scope of Work for the Five Year Plan is tabulated here under:

## a. <u>Grid Stations (Best Case)</u>

## DIIP 2 - Grid Stations

| Sr. | Description                           | Total      | Total<br>Capacity       | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25      |
|-----|---------------------------------------|------------|-------------------------|---------|---------|---------|---------|--------------|
| No. | • • • • • • • • • • • • • • • • • • • | No.        | (MVA)                   | (No)    | (No)    | (No)    | (No)    | <u>(</u> No) |
| 1   | New                                   |            | · · · · · · · · · · · · |         |         |         |         |              |
| а   | 132 KV                                | 29         | 1876                    | 5       | 7       | 6       | 5       | 6            |
| 2   | Conversion                            |            |                         |         |         |         |         |              |
| 2   | 66 to 132 KV                          | 2          | 65                      | 1       | -       | 1       | -       | -            |
| 3   | Augmentation                          |            |                         |         |         |         |         |              |
| а   | 132 KV                                | 55         | 1008                    | 10      | 11      | 11      | 11      | 12           |
| 4   | Extension (Tra                        | ansformer) |                         |         |         |         |         | , ·          |
| а   | 132 KV                                | 49         | 1267                    | 10      | 10      | 9       | 10      | 10           |
| 5   | Capacitors                            |            |                         |         |         |         |         |              |
| a   | 132 KV                                | 13         | -                       | 5       | 3       | 3       | 2       | -            |
| 6   | Conversion of                         | ISO Bay    |                         |         |         |         |         |              |
| а   | 132 KV                                | -          | -                       | 20      | -       | -       | -       | -            |
| 7   | Ext: of 11 KV C                       | Control Ho | use                     |         |         |         |         |              |
| a   | 132 KV                                | -          | -                       | 11      | 9       | 5       | 1       | 2            |
| 8   | Twin Bundle                           |            |                         |         |         |         |         | •            |
| а   | 132 KV                                |            | -                       | 11      | 6       | 3       | -       |              |

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| Sr.<br>No. | Description                        | Total<br>Length<br>(km) | Yeat-1<br>(Km) | Year-2<br>(Km) | Year-3<br>(Km) | Year-4<br>(Km) | Year-5<br>(Km) |
|------------|------------------------------------|-------------------------|----------------|----------------|----------------|----------------|----------------|
| 1          | 132 KV D/C<br>(Rail)               | 140                     | 47             | 8              | 77             | -              | 8              |
| 2          | 132 KV D/C<br>(Lynx)               | 140                     | 72.5           | 29             | 17.5           | 7.5            | 13.5           |
| 3          | 133 KV D/C<br>(Dog)                | 1                       | 1              | -              | -              | -              | _              |
| 4          | 132 KV SDT<br>(Rail)               | 472.5                   | 85.9           | 194            | 13             | 118.6          | 61             |
| 5          | 132 KV SDT<br>(Lynx)               | 255                     | 206            | 29             | -              | 20             | -              |
| 6          | Reconductoring                     | 1142.5                  | 201.5          | 416            | 251            | 195            | 79             |
| 7          | Second Circuit<br>Stringing (Lynx) | 149.5                   | 34.5           | 29             | 86             | _              | . –            |

# b. <u>Transmission Lines (Best Case)</u> i. <u>New Lines& Reconductoring</u>

# • Expansion and Rehabilitation (Achievable Case) - Scope

The scope of Work for the Five-Year Plan is tabulated here under:

c. <u>Grid Stations (Achievable Case</u>)

# DIIP 3 - Grid Stations

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| Sr.<br>No | Description             | Total<br>No. | Total<br>Capacity<br>(MVA) | Year 1<br>(No) | Year 2<br>(No) | Yeat 3<br>(No) | Year 4<br>(No) | Year 5<br>(No) |
|-----------|-------------------------|--------------|----------------------------|----------------|----------------|----------------|----------------|----------------|
| 1         | New                     |              |                            |                |                |                |                |                |
| а         | 132 KV                  | 26           | 1716                       | 5              | 5              | 5              | 6              | 5              |
| 2         | Conversion              |              |                            |                |                |                |                |                |
| а         | 66 to 132 KV            | 6            | 273                        | 4              | 1              | 0              | 1              | 0              |
| 3         | Augmentation            |              |                            |                |                |                |                |                |
| a         | 132 KV                  | 30           | 539                        | 7              | 5              | 6              | 6              | 6              |
| 4         | Extension (Transformer  | :)           |                            |                |                |                |                |                |
| a         | 132 KV                  | 22           | 615                        | 3              | 5              | 5              | 4              | 5              |
| 5         | Capacitors              |              |                            |                |                |                |                |                |
| a         | 132 KV                  | 8            | -                          | -              | 2              | 2              | 2              | 2              |
| 6         | Conversion of ISO Bay   | into Line Ba | ·y                         |                |                |                |                |                |
| а         | 132 KV                  | 20           | -                          | -              | 20             | 0              | 0              | 0              |
| 7         | Ext: of 11 KV Control H | ouse         |                            |                |                |                |                |                |
| a         | 11 KV                   | 26           | -                          | -              | 11             | 9              | 5              | 1              |
| . 8       | Twin Bundle Bus Bars    |              |                            |                |                |                |                |                |
| a         | 132 KV                  | 20           | _                          | -              | 11             | 6              | 3              | 0              |

## d. <u>Transmission Lines</u> (Achievable Case) ii. New Lines

| Sr. | Description                        | Total Length | Year-1 | Year-2 | Year-3 | Year-4 | Year-5 |
|-----|------------------------------------|--------------|--------|--------|--------|--------|--------|
| No. | Description                        | (km)         | (Km)   | (Km)   | (Km)   | (Km)   | (Km)   |
| 1   | 132 KV D/C (Rail)                  | 222.1        | 152.1  | 35     | 6      | 29     | -      |
| 2   | 132 KV D/C (Lynx)                  | 43           | 23.8   | 5      | 13     | 15.5   | 9.5    |
| 3   | 132 KV SDT (Rail)                  | 253.6        | -      | 20     | 102    | 13     | 118.6  |
| 4   | 132 KV SDT (Lynx)                  | 230.5        | 210.5  | 20     | -      | -      | -      |
| 5   | Reconductoring                     | 171.7        | 52.7   | 59     | 60     | -      | -      |
| 6   | Second Circuit Stringing<br>(Lynx) | 112          | 26     | -      | -      | 86     | -      |

# DIIP 4 - Transmission Lines: New Lines& Reconductoring

### B. Plan for Expansion and Rehabilitation Distribution System - Scope

Under this section, the Expansion and Rehabilitation (two scenarios Best and Optimally Achievable) are presented and the Status of Study Based Distribution System Planning Based on GIS Mapping and the Rollout Plans are also discussed.

This section covers the expansion and rehabilitation of distribution network (11kV and below) of the distribution company. Please refer to **Annexure-9** for list of overloaded 11-kv feeders to be rehabilitated in next five years.

MEPCO has prepared two Scenarios and the related scope. Scenario-1 (the Best Case), that if implemented will completely revamp the distribution network and enable the DISCOs to achieve the NEPRA's specified Performance Standards for Distribution and the provisions of the Distribution Code, especially the Distribution Planning Code issued by NEPRA.

MEPCO has also prepared a **Scenario-2** (the Optimally Achievable Case) based on its procurement and execution capacity and will make the MYT rate case based on this scenario.

he proposed distribution works for MEPO also includes the scope for "Deposit Works" and "Village Electrification Works" and these works are separately identified in the formats below.

The ABC Cable proposals have also been implemented in MEPCO for the past five years and more proposals will be executed in future.

Below is the overall synopsis - HT/LT ratios of distribution system and length per feeder of 11kV linescomparison:

### Existing HT/LT Ratios and length per feeder of 11 kV lines:

- Existing HT to LT Ratio = 1.56: 1
- Existing average length of 11-KV feeder = 49.65 Km

After completion of Best Case of the 5 year plan (DIIP), the above parameters will be as under:

| • | HT to LT Ratio | = | 1.65 : 1 |
|---|----------------|---|----------|
|   |                |   |          |

• Average length of 11-KV feeder = 38.82 Km

After completion of Optimally Achievable Case of the 5 year plan (DIIP), the above parameters will be as under:

| • | HT to LT Ratio                 | = | 1.60 : 1 |
|---|--------------------------------|---|----------|
| • | Average length of 11-KV feeder | = | 42.33 Km |

Due to increased HT/LT ratio and decrease in HT average length per feeder, the technical loss of the distribution system will be decreased. This will further result in reduction of system outages making it more efficient and reliable.

# Expansion and Rehabilitation (Best Case)

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The table DIIP 14 captures the complete scope under Best Case for distribution system:

# DIIP5 - Distribution System (Best Case)

| Sr.  | Description                                               | Unit       | Quantities  |            |            |             |         |      |  |  |
|------|-----------------------------------------------------------|------------|-------------|------------|------------|-------------|---------|------|--|--|
| No.  | Description                                               | Um         | 2020-21     | 2021-22    | 2022-23    | 2023-24     | 2024-25 | Tota |  |  |
| ope  | of Work for 11 kV and Below Expa                          | nsion (D   | edicated F  | eeders on  | Cost Depo  | osit Basis) |         |      |  |  |
| 1    | New HT Lines                                              | · · · · ·  |             |            |            |             |         |      |  |  |
|      | Number of Works                                           | Nos        | 9           | 8          | 8          | 9           | 10      | 44   |  |  |
| •    | Length of new HT line                                     | Km         | 63          | 50         | 52         | 65          | 72      | 302  |  |  |
| 2    | Transformers                                              |            | 1           |            | L          | <b></b>     | ·       |      |  |  |
|      | a. 1000 KVA                                               | Nos        | 5           | 3          | 3 .        | 4           | 3       | 18   |  |  |
|      | b. 750 KVA                                                | Nos        | 3           | 3          | 2          | 2           | 2       | 12   |  |  |
|      | c. 630 KVA                                                | Nos        | 7           | 6          | 5          | 7           | 6       | 31   |  |  |
|      | d. 400 KVA                                                | Nos        | 4           | 5          | 4          | 5           | 7       | 25   |  |  |
|      | e. 200 KVA                                                | Nos        | 31          | 29         | 27         | 26          | 32      | 145  |  |  |
|      | f. 100 KVA                                                | Nos        | 45          | 37         | 37         | 40          | 39      | 198  |  |  |
|      | Sub Total                                                 | Nos        | 95          | 83         | 78         | 84          | 89      | 429  |  |  |
| -3   | 11 KV Panel                                               | Nos        | 9           | 8          | 8          | 9           | 10      | 44   |  |  |
| 4    | 11KV 500 MCM S/C Cable                                    | Km         | 9           | 8          | 8          | 9           | 10      | 44   |  |  |
| 5    | New LT Lines (For Housing societies                       | Km         | 56          | 48         | 47         | 48          | 52      | 251  |  |  |
| pe o | of Work for LT Expansion (Village                         | Electrific | cation on ( | Cost Depos | sit Basis) |             |         |      |  |  |
| 1    | New LT Lines                                              |            |             |            |            |             |         |      |  |  |
|      | Number of Works                                           | Nos        | 1720        | 2100       | 3096       | 2000        | 1900    | 1081 |  |  |
|      | Length of new LT line                                     | Km         | 421         | 515        | 759        | 490         | 466     | 2650 |  |  |
| 2    | Ţransformers                                              |            |             |            |            |             |         |      |  |  |
|      | a. 25 KVA                                                 | Nos        | 451         | 550        | 811        | 524         | 498     | 2834 |  |  |
|      | b. 50 KVA                                                 | Nos        | 361         | 440        | 649        | 419         | 398     | 2267 |  |  |
|      | c. 100 KVA                                                | Nos        | 90          | 110        | 162        | 105         | 100     | 567  |  |  |
|      | Sub Total                                                 | Nos        | 901         | 1100       | 1622       | 1048        | 996     | 5668 |  |  |
| 3    | New HT Lines (For Village connectivity with<br>HT Feeder) | Km         | 817*        | 998        | 1471       | 950         | 903     | 5138 |  |  |

### The narrative, assumptions and details is hereunder:

### Village Electrification:

- The estimation of scope of work in next five years is based on the historical data of the financial years 2015-16 to 2019-20
- The 25 KVA transformers are considered as 50 %, 50 KVA transformers are considered as 40 % and 100 KVA transformers are considered as 10 % of the total transformers
- HT conductor percentage is assumed as 30 % 'Dog' and 70 % 'Rabbit'
- LT conductor assumed to be 'Ant'

### Dedicated 11-kv Feeders:

- The estimation of scope of work in next five years is based on the historical data of the financial years 2015-16 to 2019-20
- HT conductor percentage is assumed as 50 % 'Osprey', 40 % 'Dog' and 10 % 'Rabbit'
- LT conductor percentage is assumed as 60 % 'Wasp' and 40 % 'Ant'
- 1000 KVA transformers are considered as 4 %, 750 KVA transformers are considered as 3%, 630 KVA transformers are considered as 7 %, 400 KVA transformers are considered as 6 %, 200 KVA transformers are considered as 34 % and 100 KVA transformers are considered as 46 % of the total Transformers.
\*

| Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO |
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| - 11 |                                          | 12 | 이 가지 않는 것이 같아. |  |
|------|------------------------------------------|----|----------------|--|
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| Scope of Work for 11 kV and Below Rehabilitation |                                          |         |            |         |         |         |         |           |
|--------------------------------------------------|------------------------------------------|---------|------------|---------|---------|---------|---------|-----------|
|                                                  |                                          |         | Quantities |         |         |         |         |           |
| A:                                               | Rehabilitation of HT Lines               | Unit    | 2020-21    | 2021-22 | 2022-23 | 2023-24 | 2024-25 | Total     |
| - Level to Be                                    | Number of proposals                      | Nos     | 105        | 145     | 155     | 160     | 145     | 710       |
| 1                                                | New HT Lines                             | Km      | 909        | 1256    | 1342    | 1386    | 1256    | 6149      |
| 2                                                | HT Line Reconductoring                   | Km      | 567        | 783     | 837     | 864     | 783     | 3834      |
| 3                                                | 11KV Capacitors                          | Nos     | 263        | 363     | 388     | 400     | 363     | 1775      |
| 4                                                | 11KV Panels                              | Nos     | 126        | 174     | 186     | 192     | 174     | 852       |
| 5                                                | Replacement of T/F Earthing              | Nos     | 7109       | 7109    | 7109    | 7109    | 7109    | 35543     |
| 6                                                | 11-ky Sectionalizers                     | Nos     | 315        | 435     | 465     | 480     | 435     | 2130      |
| 7                                                | 11-Ky 500 MCM Cable                      | Km      | 38         | 52      | 56      | 58      | 52      | 256       |
| Sco                                              | pe of Work for LT Rehabilitation         |         | 1          |         | 1       | L       | L       | L         |
| В.                                               | LT Lines Rehabilitation                  |         |            |         |         |         | ,<br>,  |           |
|                                                  | Number of proposals                      | Nos     | 890        | 905     | 915     | 925     | 930     | 4565      |
| 8                                                | New LT Lines                             | Km      | 409        | 416     | 421     | 426     | 428     | 2100      |
|                                                  | LT Line Reconductoring(with Wasp)        | Km      | 154        | 157     | 158     | 160     | 161     | 790       |
| 9                                                | ABC Cable 95 mm2                         | Km      | 56         | 89      | 102     | 110     | 120     | 477       |
|                                                  | ABC Cable 50 mm2                         | Km      | 26         | 41      | 48      | 51      | 56      | 222       |
| 10                                               | New HT Lines (For New T/F Substations)   | Km      | 98         | 100     | 101     | 102     | 102     | 502       |
| 11                                               | Replacement of D fuse fitting            | Nos     | 4976       | 4976    | 4976    | 4976    | 4976    | 24880     |
| 12                                               | New Transformer Substations              |         |            |         |         |         |         |           |
|                                                  | a. 25 KVA                                | Nos     | 98         | 100     | 101     | 102     | 102     | 502       |
|                                                  | b. 50 KVA                                | Nos     | 240        | 244     | 247     | 250     | 251     | 1233      |
|                                                  | c. 100 KVA                               | Nos     | 365        | 371     | 375     | 379     | 381     | 1872      |
|                                                  | d. 200 KVA                               | Nos     | 98         | 100     | 101     | 102     | 102     | 502       |
|                                                  | Sub Total                                | Nos     | 801        | 815     | 824     | 833     | 837     | 4109      |
| 13                                               | Augmentation of Overloaded Transform     | ers     | ······     | ·       |         | r       | r       |           |
|                                                  | a. 25 KVA (10KVA / 15KVA -25KVA)         | Nos     | 180        | 187     | 200     | 204     | 225     | 996       |
|                                                  | b. 50 KVA (25KVA -50KVA)                 | Nos     | 509        | 528     | 564     | 576     | 636     | 2813      |
|                                                  | c.100 KVA ( 50KVA- 100KVA)               | Nos     | 827        | 858     | 917     | 936     | 1034    | 4571      |
|                                                  | d. 200 KVA( 100KVA- 200KVA)              | Nos     | 424        | 440     | 470     | 480     | 530     | 2344      |
|                                                  | e. 200 KVA (Additional)                  | Nos     | 180        | 187     | 200     | 204     | 225     | 996       |
|                                                  | Sub Total                                | Nos     | 2120       | 2200    | 2350    | 2400    | 2650    | 11720     |
| 14                                               | Replacement of 2-Leg Transformers        | · · · · |            |         |         |         |         |           |
|                                                  | a. 10 KVA                                | Nos     | 11         | 11      | 13      | 17      | -21     | 73        |
|                                                  | b. 15 KVA                                | Nos     | 23         | 21      | 27      | 33      | 41      | 145       |
|                                                  | c. 25 KVA                                | Nos     | 34         | 32      | 40      | 50      | 62      | 218       |
|                                                  | d. 50 KVA                                | Nos     | 194        | 180     | 226     | 282     | 352     | 1235      |
|                                                  | e. 100 KVA                               | Nos     | 366        | 340     | 425     | 531     | 663     | 2324      |
|                                                  | f. 200 KVA                               | Nos     | 515        | 477     | 597     | 746     | 933     | 3268      |
|                                                  | Sub Total                                | Nos     | 1144       | 1061    | 1327    | 1658    | 2073    | 7263      |
| 15                                               | Energy Meters (against defective/Sluggis | sh)     | ·          | ,       |         |         |         |           |
|                                                  | a. Single Phase                          | Nos     | 318983.3   | 322,173 | 325,395 | 328,649 | 331,935 | 1,627,135 |
|                                                  | b. Three Phase                           | Nos     | 8446       | 8,530   | 8,615   | 8,702   | 8,789   | 43,081    |
|                                                  | Sub Total                                | Nos     | 327,429    | 330,703 | 334,010 | 337,350 | 340,724 | 1,670,216 |
| 16                                               | P.G.Connectors                           | Nos     | 834,783    | 834,783 | 834,783 | 834,783 | 834,783 | 4,173,916 |

39 | P a g e

710 Nos.

### 1.1 Methodology:

In best case program, rehabilitation of 710-No. 11-KV feeders has been proposed including connectivity proposals against new proposed Grid stations. Moreover, 4565-No. LT- Proposals have been identified for rehabilitation in next five years.

The rehabilitation material and equipment has been determined as follows:

#### New 11 KV Switchgear

Panels for express feeders to be built for Shifting/bifurcation of existing 710 Nos. feeders approximately 852 Nos. will be needed as in some proposals 02 Nos. feeders are being proposed to maintain the NEPRA limits.

### ACSR Conductors for new express line construction

It is estimated that 710 feeders will require construction of express lines for their bifurcation. On the basis on sample studies, 8.66 km of 3-phase HT line will be constructed per feeder. The overall share of different ACSR conductors in the total of 710 x 8.66 = 6149 km of lines is calculated as below:

| <u>KM Line</u> |            |               |         |               |
|----------------|------------|---------------|---------|---------------|
| Osprey         | 67.55%     | 6149 x 0.6755 | 4154 K  | Îm            |
| Dog            | 22.84%6149 | x 0.2284      | 1404 Km |               |
| Rabbit         | 09.61%     | 6149 x 0.0961 |         | <u>591 Km</u> |
|                |            |               | Total   | 6149 Km       |

### 11 kV Line Re-conductoring

Estimated re-conductoring per feeder based on sample studies = 5.60 km Estimated % share of different Conductors in re-conductoring,

| Osprey                               | 51.46% |  |  |  |  |
|--------------------------------------|--------|--|--|--|--|
| Dog                                  | 40.73% |  |  |  |  |
| Rabbit                               | 07.80% |  |  |  |  |
| Number of feeders for rehabilitation |        |  |  |  |  |

Therefore, total re-conductoring length (710 x 5.60) 3976 Km

The quantities of ACSR conductors required for re-conductoring are therefore:

KM Line

| Osprey | 51.42%39 | 76 x 0.5142   | 2044       | KM        |    |
|--------|----------|---------------|------------|-----------|----|
| Dog    | 40.70%   | 3976 x 0.4070 |            | 1618      | KM |
| Rabbit | 07.88%39 | 76 x 0.0788   | <u>314</u> | <u>KM</u> |    |
|        |          |               | Total      | 3976 ŀ    | (M |

### Capacitor Applications for Power Factor Improvement

The sample studies indicate that at an average, two or three capacitor banks of 450 kVAR are needed per feeder for improving the power factor to 95% from existing average power factor of 85% on the selected feeders. For 710 No. 11 kV feeders, requirement of capacitor banks of 450 kVAR each will, therefore, be 1775 Nos.

35543 Nos.

### Earthing

Estimation of quantities for replacement of earthing on existing transformers is worked out as follows: Total transformers up to June 2019-20 177,716 Nos.

Replacement of earthing is estimated on 20% of transformers,

Therefore total earthing required (177716 x 20%)

#### 11 KV Sectionalizers

In order to achieve isolation of faulty portions of feeders under fault conditions, sectionalization equipment is needed. A minimum of 3 sectionalizers per feeder are recommended for new locations as well as for replacement of damaged sectionalizers. The quantity is worked out as follows:

| 11 kV Sectionalizers required per feeder               | 3 Nos.       |
|--------------------------------------------------------|--------------|
| Total number of 11 kV sectionalizers required (3 x 710 | )) 2130 Nos. |
| Share                                                  |              |
| Sectionalizers 600 Amps 30 %                           | 639 Nos.     |
| Sectionalizers 200 Amps 70 % 1                         | 491 Nos.     |

### 11 KV Cables

11 KV cable is required for connecting the proposed new feeders as well as for adding/replacing the under-size/deteriorated cable. The quantity is worked out on the basis that an average length of 300 meters of 500 MCM cable is required for each feeder from the panel in the grid station to the first riser pole of the feeder. In case of Bifurcation there can be 2 proposed feeders in some of the cases and in the rest there would be one proposed feeder from the new one so it would be calculated as:

| Feeders involved after bifurcation and r | ehabi | litation |         | 852 Nos. |
|------------------------------------------|-------|----------|---------|----------|
| Average length of S/C cable per feeder   |       |          |         | 300 M    |
| Therefore length of cable required       |       | 0.3 2    | x 852 = | 256 KM   |

#### New LT Lines

Based on the estimation of the previously executed LT Proposals, it has been found out that New Ant Line of approximately 0.46 km is being utilized per proposal on an average. Based on this estimation, the LT line conductor for a total of 3406 LT Proposals is calculated as follows:

Total LT line required:  $0.46 \ge 4565 = 2100 \text{ Km}$ These LT Lines will be utilized on the New Transformer Substations being used in the LT Proposals

#### LT Line Reconductoring

The average LT line reconductoring per LT rehabilitation proposal is estimated as:

3-φ, Wasp conductor line per proposal 0.173 km

The same average has been applied to evaluate the LT conductor quantities which are as under: Total number of LT proposals for Reconductoring 4565 Nos.

LT line Reconductoring  $(3-\varphi, Wasp)$ 

4565 x 0.173

790 km

### ABC Cable

X

Proposed replacement of 699 KM bare conductor with ABC cable for high loss feeders especially in Kunda infested areas within the city as well as rural where higher rate of pilferage of electricity and it provide higher safety and reliability of the system.

| ABC Cable of 95 $mm^2 =$ | 477 Km |
|--------------------------|--------|
| ABC Cable of 50 $mm^2 =$ | 222 Km |

### New 11 KV Line

| Total number of LT proposals                           | 4565 N      | os.    |
|--------------------------------------------------------|-------------|--------|
| Average length of 11 kV line extension per LT proposal | 0.11        | KM     |
| Total length of new 11 kV line (Rabbit conductor)      | 4565 x 0.11 | 502 KM |

## D-fuse fittings (Drop-out Cut-outs)

Replacement of D-fuse fittings (drop-out cut-outs) is estimated as 14 % of the total number of transformers. The total quantity of D-fuse fittings is therefore worked out as follows:

| Total transformers up to June 2019-20 | 177,716 Nos. |
|---------------------------------------|--------------|
| Total D-fuse fittings required @ 14%  | 24,880 Nos.  |

### New Transformer Sub-Stations

These will be required for installation after extension of HT lines to minimize the high loss LT lines or to install under the existing HT line to take up additional loads. The quantity is estimated as 90% of the LT Proposals.

| Total LT Proposals        |                     |                    | 4565 N | OS.       |
|---------------------------|---------------------|--------------------|--------|-----------|
| New additional transforme | er sub-stations rec | quired: 4565 x 90% | =      | 4109 Nos. |

#### Share of Different Ratings of Transformers

| and the state of the |      |             |                 |
|----------------------|------|-------------|-----------------|
| 25 kVA               | 12 % | 4109 x 12 % | 502 Nos.        |
| 50 kVA               | 31 % | 4109 x 31 % | 1233 Nos.       |
| 100 kVA              | 45 % | 4109 x 45 % | 1872 Nos.       |
| 200 kVA              | 12 % | 4109 x 12 % | <u>502 Nos.</u> |
|                      |      | Total:      | 4109 Nos.       |

## **Energy Meters**

The requirement of energy meters for replacement against damaged/defective meters is estimated as follows:

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| 1-phase defective/damaged energy meters | upto 2019-20 = | 315825      | Nos. |
|-----------------------------------------|----------------|-------------|------|
| 3-phase defective/damaged energy meters | upto 2019-20 = | <u>8362</u> | Nos. |
|                                         | Total          | 324187      | Nos  |

Sector 1.

324187 Nos.

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Therefore, requirement of total no. of energy meters for the further 5 years will be increased by 1% each year.

### P.G. Connectors

The requirement of P.G. Connectors has been estimated as follows:

| Total customers of MEPCO upto 2024-25              | 8347833Nos.    |                |
|----------------------------------------------------|----------------|----------------|
| Estimated customers requiring P.G. Connectors (50% | % Approx.)     | 4,173,916 Nos. |
| Share                                              |                |                |
| 1-phase services requiring connectors (80%)        | 3,339,1        | .32 Nos.       |
| 3-phase services requiring connectors (20%)        | 834784         | <u>I Nos.</u>  |
|                                                    | Total: 4,173,9 | 916 Nos.       |

## • Expansion and Rehabilitation (Optimally Achievable Case) - Scope

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The table DIIP 15 captures the complete scope under Achievable Case for distribution system: DIIP6 - Distribution System (Optimally Achievable Case)

| Sr.         | Description                                               | Unit      | Quantities  |                       |             |             |            |       |
|-------------|-----------------------------------------------------------|-----------|-------------|-----------------------|-------------|-------------|------------|-------|
| No.         |                                                           | 2020-21   | 2021-22     | 2022-23               | 2023-24     | 2024-25     | ·Total     |       |
| Scope o     | of Work for 11 kV and Below Expa                          | nsion (D  | edicated F  | eeders on             | Cost Depo   | osit Basis) |            |       |
| A. 5.       |                                                           |           |             |                       |             |             |            |       |
| 1           | New HT Lines                                              |           |             |                       |             |             |            |       |
|             | Number of Works                                           | Nos       | 9           | 8                     | 8           | 9           | 10         | 44    |
|             | Length of new HT line                                     | Km        | 63          | 50                    | 52          | 65          | 72         | 302   |
| 2           | Transformers                                              |           |             |                       |             |             |            |       |
|             | a. 1000 KVA                                               | Nos       | 5           | 3                     | 3           | 4           | 3          | 18    |
|             | b. 750 KVA                                                | Nos       | 3           | 3                     | 2           | 2           | 2          | 12    |
|             | c. 630 KVA                                                | Nos       | 7           | 6                     | 5           | 7           | 6          | 31    |
|             | d. 400 KVA                                                | Nos       | 4           | 5                     | 4           | 5           | 7          | 25    |
|             | e. 200 KVA                                                | Nos       | 31          | 29                    | 27          | 26          | 32         | 145   |
|             | f. 100 KVA                                                | Nos       | 45          | 37                    | 37          | 40          | 39         | 198   |
|             | Sub Total                                                 | Nos       | 95          | 83                    | 78          | 84          | 89         | 429   |
| 3           | 11 KV Panel                                               | Nos       | 9           | 8                     | 8           | 9           | 10         | 44    |
| 4           | 11KV 500 MCM S/C Cable                                    | Km        | 9           | 8                     | 8           | 9           | 10         | 44    |
| 5           | New LT Lines (For Housing societies                       | Km        | 56          | 48                    | 47          | 48          | 52         | 251   |
| Scope of    | of Work for LT Expansion (Village                         | Electrifi | cation on ( | Cost Depos            | sit Basis)  |             |            |       |
| Desta       |                                                           | <u>.</u>  |             |                       | ·           |             |            |       |
| D. 1        | Now IT Lines                                              |           |             |                       |             |             |            |       |
| 1.<br>      | Number of Works                                           | Nos       | 1720        | 2100                  | 3006        | 2000        | 1000       | 10816 |
|             | Length of new IT line                                     | Km        | 1720        | 515                   | 750         | 2000        | 1900       | 2650  |
| ·<br>·<br>· | Transformars                                              | INIU      | 721         | 515                   |             | 490         | <u>400</u> | 2030  |
| - <b>-</b>  | 2. 25 KVA                                                 | Mos       | 451         | 550                   | <b>Q</b> 11 | 524         | 108        | 2834  |
|             |                                                           | Nos       | 361         | 440                   | 640         | /10         | 308        | 2034  |
|             | 0. JO KVA                                                 | Nos       | 00          | <del>טדד</del><br>110 | 162         | 105         | 100        | 567   |
|             | Sub Total                                                 | Nos       | 901         | 1100                  | 1622        | 1048        | 996        | 5668  |
| 3           | New HT Lines (For Village connectivity with<br>HT Feeder) | Km        | 817         | 998                   | 1471        | 950         | 903        | 5138  |

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Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

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#### AND CONTRACTOR

### The narrative, assumptions and details is hereunder:

#### Village Electrification:

- The estimation of scope of work in next five years is based on the historical data of the financial years 2015-16 to 2019-20
- The 25 KVA transformers are considered as as 50 %, 50 KVA transformers are considered as 40 % and 100 KVA transformers are considered as 10 % of the total transformers
- HT conductor percentage is assumed as 30 % 'Dog' and 70 % 'Rabbit'
- LT conductor assumed to be 'Ant'

#### **Dedicated 11-kv Feeders:**

- The estimation of scope of work in next five years is based on the historical data of the financial years The estimation of scope of work in next five years is based on the historical data of the financial years 2015-16 to 2019-20
- HT conductor percentage is assumed as 50 % 'Osprey', 40 % 'Dog' and 10 % 'Rabbit'
- LT conductor percentage is assumed as 60 % 'Wasp' and 40 % 'Ant'
- 1000 KVA transformers are considered as 4 %, 750 KVA transformers are considered as 3%, 630 KVA transformers are considered as 7 %, 400 KVA transformers are considered as 6%, 200 KVA transformers are considered as 34 % and 100 KVA transformers are considered as 46 % of the total Transformers.

| Sco       | Scope of Work for 11 kV and Below Rehabilitation            |       |                                        |         |         |          |         |           |
|-----------|-------------------------------------------------------------|-------|----------------------------------------|---------|---------|----------|---------|-----------|
|           |                                                             |       | Γ                                      |         | Qua     | ntities  |         |           |
| Α.        | Rehabilitation of HT Lines                                  | Unit  | 2020-21                                | 2021-22 | 2022-23 | 2023-24  | 2024-25 | Total     |
|           | Number of proposals                                         | Nos   | 75                                     | 82      | 81      | 91       | 93      | 422       |
| 1         | New HT Lines                                                | Km    | 650                                    | 710     | 701     | 788      | 805     | 3655      |
| 2         | HT Line Reconductoring                                      | Km    | 405                                    | 443     | 437     | 491      | 502     | 2279      |
| 3.        | 11KV Capacitors                                             | Nos   | 188                                    | · 205   | 203     | 228      | 233     | 1055      |
| 4         | 11KV Panels                                                 | Nos   | 90                                     | 98      | 97      | 109      | 112     | 506       |
| 5         | Replacement of T/F Earthing                                 | Nos   | 7109                                   | 7109    | 7109    | 7109     | 7109    | 35543     |
| 6         | 11-kv Sectionalizers                                        | Nos   | 225                                    | 246     | 243     | 273      | 279     | 1266      |
| 7         | 11-Kv 500 MCM Cable                                         | Kin   | 27                                     | 30      | 29      | 33       | 33.     | 152       |
| Sco<br>B. | pe of Work for LT Rehabilitation<br>LT Lines Rehabilitation |       |                                        | -<br>   |         |          |         |           |
|           | Number of proposals                                         | Nos   | 591                                    | 675     | 690     | 700      | 750     | 3406      |
| 8         | New LT Lines                                                | Km    | 272                                    | 311     | 317     | 322      | 345     | 1567      |
|           | LT Line Reconductoring(with Wasp)                           | Km    | 102                                    | 117     | 119     | 121      | 130     | 589       |
| 9         | ABC Cable 95 mm2                                            | Km    | 37                                     | 59      | 68      | 74       | 80      | 318       |
|           | ABC Cable 50 mm2                                            | Km    | 17                                     | 28      | 32      | 34       | 37      | 148       |
| 10        | New HT Lines (For New T/F Substations)                      | Km    | 65                                     | 74      | 76      | 77       | 83      | 375       |
| 11        | Replacement of D fuse fitting                               | Nos   | 4976                                   | 4976    | 4976    | 4976     | 4976    | 24880     |
| 12        | New Transformer Substations                                 |       | •••••••••••••••••••••••••••••••••••••• |         |         |          |         | ·         |
|           | a. 25 KVA                                                   | Nos   | 65                                     | 74      | 76      | 77       | 83      | 375       |
|           | b. 50 KVA                                                   | Nos   | 160                                    | 182     | 186     | 189      | 203     | 920       |
|           | c. 100 KVA                                                  | Nos   | 242                                    | 277     | 283     | 287      | 308     | 1396      |
| i I       | d. 200 KVA                                                  | Nos   | 65                                     | 74      | 76      | 77       | 83      | 375       |
|           | Sub Total                                                   | Nos   | 532                                    | 608     | 621     | 630      | 675     | 3065      |
| 13        | Augmentation of Overloaded Transform                        | ers   |                                        |         |         |          |         |           |
|           | a. 25 KVA (10KVA / 15KVA -25KVA)                            | Nos . | 84                                     | . 171   | . 173   | 111      | 68      | 607       |
|           | b. 50 KVA (25KVA -50KVA)                                    | Nos   | 237                                    | 483     | 489     | 314      | 191     | 1713      |
|           | c.100 KVA ( 50KVA- 100KVA)                                  | Nos   | 385                                    | 785 .   | 794.    | 510      | 310     | 2784      |
|           | d. 200 KVA( 100KVA- 200KVA)                                 | Nos   | 197                                    | 403     | 407     | 262      | 159     | 1428      |
|           | e. 200 KVA (Additional)                                     | Nos   | 84                                     | 171     | 173     | [s 111 s | . 68    | 607       |
|           | Sub Total                                                   | Nos   | 986                                    | 2013    | 2036    | 1308     | 796     | 7139      |
| 14        | Replacement of 2-Leg Transformers                           |       |                                        |         |         |          |         | ·····     |
|           | a. 10 KVA                                                   | Nos   | 11                                     | 10      | 9       | 8        | 9       | 48        |
|           | b. 15 KVA                                                   | Nos   | 23                                     | 20      | 18      | . 17     | 18      | 96        |
|           | c. 25 KVA                                                   | Nos   | 34                                     | 30      | 27      | 25       | 27      | 144       |
|           | d. 50 KVA                                                   | Nos   | 194                                    | 172     | 151     | 143      | 156     | 816       |
|           | e. 100 KVA                                                  | Nos   | 366                                    | 324     | 284     | 269 -    | 293     | 1536      |
|           | f. 200 KVA                                                  | Nos   | 515                                    | 456     | 399     | 378      | 412     | 2160      |
|           | Sub Total                                                   | Nos   | 1144                                   | 1013    | 887     | 841      | 916     | 4801      |
| 15        | Energy Meters (against defective/Sluggis                    | sh)   |                                        |         | :       |          |         |           |
|           | a. Single Phase                                             | Nos   | 318983.3                               | 322,173 | 325,395 | 328,649  | 331,935 | 1,627,135 |
|           | b. Three Phase                                              | Nos   | 8446                                   | 8,530   | 8,615   | 8,702    | 8,789   | 43,081    |
|           | Sub Total                                                   | Nos   | 327,429                                | 330,703 | 334,010 | 337,350  | 340,724 | 1,670,216 |
| 16        | P.G.Connectors                                              | Nos   | 834.783                                | 834,783 | 834,783 | 834,783  | 834,783 | 4,173,916 |

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Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

### 1.2 Methodology:

In Optimally achievable case program, rehabilitation of 422-No. 11-KV feeders has been proposed including connectivity proposals against new proposed Grid stations. Moreover, 3406-No. LT- Proposals have been identified for rehabilitation in next five years.

The rehabilitation material and equipment has been determined as follows:

### New 11 KV Switchgear

Panels for express feeders to be built for Shifting/bifurcation of existing 422 Nos. feeders approximately 506 Nos. will be needed as in some proposals 02 Nos. feeders are being proposed to maintain the NEPRA limits.

### ACSR Conductors for new express line construction

It is estimated that 422 feeders will require construction of express lines for their bifurcation. On the basis on sample studies, 8.66 km of 3-phase HT line will be constructed per feeder. The overall share of different ACSR conductors in the total of 422 x 8.66 = 3655 km of lines is calculated as below:

KM Line

| Osprey | 67.55% 3655 x 0.6755 | 2464 Km         |
|--------|----------------------|-----------------|
| Dog    | 22.84%3655 x 0.2284  | 831 Km          |
| Rabbit | 09.61% 3655 x 0.0961 | . <u>359 Km</u> |
|        |                      | Total 3655 Km   |

#### 11 kV Line Re-conductoring

Estimated re-conductoring per feeder based on sample studies = 5.60 km Estimated % share of different Conductors in re-conductoring,

| · ·     | Osprey             | 51.46%      |          |
|---------|--------------------|-------------|----------|
| · · · · | Dog                | 40.73%      | <b>1</b> |
|         | Rabbit             | 07.80%      |          |
| Number  | of feeders for reh | abilitation | 422 No   |

Therefore, total re-conductoring length (422 x 5.60) 2363 Km

KM

KM

KM

| <u>KM Line</u> |           |               |      |            |
|----------------|-----------|---------------|------|------------|
| Osprey         | 51.42%230 | 53 x 0.5142   | 1169 | KM         |
| Dog            | 40.70%    | 2363 x 0.4070 |      | 924        |
| Rabbit         | 07.88%    | 2363 x 0.0788 |      | <u>270</u> |
|                |           |               | Tota | al 2363    |

The quantities of ACSR conductors required for re-conductoring are therefore:

#### Capacitor Applications for Power Factor Improvement

The sample studies indicate that at an average, two or three capacitor banks of 450 kVAR are needed per feeder for improving the power factor to 95% from existing average power factor of 85% on the selected feeders. For 422 No. 11 kV feeders, requirement of capacitor banks of 450 kVAR each will, therefore, be 1055 Nos.

### Earthing

Estimation of quantities for replacement of earthing on existing transformers is worked out as follows:

Total transformers up to June 2019-20177,716 Nos.Replacement of earthing is estimated on 20% of transformers,35543 Nos.Therefore total earthing required(177716 x 20%)35543 Nos.

### 11 KV Sectionalizers

In order to achieve isolation of faulty portions of feeders under fault conditions, sectionalization equipment is needed. A minimum of 3 sectionalizers per feeder are recommended for new locations as well as for replacement of damaged sectionalizers. The quantity is worked out as follows:

11 kV Sectionalizers required per feeder

Total number of 11 kV sectionalizers required (3 x 422) 1266 Nos.

<u>Share</u>

| <br>Sectionalizers | 600 Amps | 30 % |  | 380 Nos. |
|--------------------|----------|------|--|----------|
| Sectionalizers     | 200 Amps | 70 % |  | 886 Nos. |

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3 Nos.

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### 11 KV Cables

11 KV cable is required for connecting the proposed new feeders as well as for adding/replacing the under-size/deteriorated cable. The quantity is worked out on the basis that an average length of 300 meters of 500 MCM cable is required for each feeder from the panel in the grid station to the first riser pole of the feeder. In case of Bifurcation there can be 2 proposed feeders in some of the cases and in the rest there would be one proposed feeder from the new one so it would be calculated as:

| Feeders involved after bifurcation and rehabilitat | ion   |         | 506 | o Nos. |
|----------------------------------------------------|-------|---------|-----|--------|
| Average length of S/C cable per feeder             |       | ÷       | 300 | ) M    |
| Therefore length of cable required                 | 0.3 x | : 506 = | 1.  | 52 KM  |

### New LT Lines

Based on the estimation of the previously executed LT Proposals, it has been found out that New Ant Line of approximately 0.46 km is being utilized per proposal on an average. Based on this estimation, the LT line conductor for a total of 3406 LT Proposals is calculated as follows:

Total LT line required: 0.46 x 3406 = 1567 Km These LT Lines will be utilized on the New Transformer Substations being used in the LT Proposals

#### LT Line Reconductoring

The average LT line reconductoring per LT rehabilitation proposal is estimated as:

3-φ, Wasp conductor line per proposal
0.173 km
The same average has been applied to evaluate the LT conductor quantities which are as under:
Total number of LT proposals for Reconductoring
3406 Nos
LT line Reconductoring (3-φ, Wasp)
3406 x 0.173
589 km

### ABC Cable

Proposed replacement of 466 KM bare conductor with ABC cable for high loss feeders especially in Kunda infested areas within the city as well as rural where higher rate of pilferage of electricity and it provide higher safety and reliability of the system.

| ABC Cable of 95 $mm^2 =$ | 318 Km |
|--------------------------|--------|
| ABC Cable of 50 $mm^2 =$ | 148 Km |

### New 11 KV Line

| Total number of LT proposals                           | 340         | 6 Nos. |
|--------------------------------------------------------|-------------|--------|
| Average length of 11 kV line extension per LT proposal | 0.11        | KM     |
| Total length of new 11 kV line (Rabbit conductor)      | 3406 x 0.11 | 375 KM |

### D-fuse fittings (Drop-out Cut-outs)

Replacement of D-fuse fittings (drop-out cut-outs) is estimated as 14 % of the total number of transformers. The total quantity of D-fuse fittings is therefore worked out as follows:

| Total transformers up to June 2019-20 | 177,716 Nos. |
|---------------------------------------|--------------|
| Total D-fuse fittings required @ 14%  | 24,880 Nos.  |

### New Transformer Sub-Stations

These will be required for installation after extension of HT lines to minimize the high loss LT lines or to install under the existing HT line to take up additional loads. The quantity is estimated as 90% of the LT Proposals.

| Total LT Proposals                                           | =  | 3406 1 | Nos.      |
|--------------------------------------------------------------|----|--------|-----------|
| New additional transformer sub-stations required: 3406 x 90% | D. | =      | 3065 Nos. |

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### Share of Different Ratings of Transformers

| 25 kVA  | 12 % | 3406 x 12 % | 375 Nos.        |
|---------|------|-------------|-----------------|
| 50 kVA  | 31 % | 3406 x 31 % | 920 Nos.        |
| 100 kVA | 45 % | 3406 x 45 % | 1396 Nos.       |
| 200 kVA | 12 % | 3406 x 12 % | <u>375 Nos.</u> |
|         |      | Total:      | 3065 Nos.       |

## **Energy Meters**

The requirement of energy meters for replacement against damaged/defective meters is estimated as follows:

1-phase defective/damaged energy meters upto 2019-20 = 315825 Nos.
3-phase defective/damaged energy meters upto 2019-20 = <u>8362</u> Nos. Total 324187 Nos.

Therefore, requirement of total no. of energy meters for the further 5 years will be increased by 1% each year.

### P.G. Connectors

The requirement of P.G. Connectors has been estimated as follows:

| Total customers of MEPCO upto 2024-25              | 8347833Nos.             |
|----------------------------------------------------|-------------------------|
| Estimated customers requiring P.G. Connectors (50% | Approx.) 4,173,916 Nos. |
| Share                                              |                         |
| 1-phase services requiring connectors (80%)        | 3,339,132 Nos.          |
| 3-phase services requiring connectors (20%)        | <u>834784 Nos.</u>      |

Total: 4,173,916 Nos.

## Status of Study Based Distribution System Planning Based on GIS Mapping and the Transition Plan

The status on the mapping of HT and LT network and studies based on GIS mapped network on modern planning analysis tool(s) is provided.

| Sr.   | r,<br>Noscrintion                                                                                                                                                                                           |      | Quantities |         |         |         |         |        |  |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|---------|---------|---------|---------|--------|--|
| No.   | <b>Description</b>                                                                                                                                                                                          | UINL | 2020-21    | 2021-22 | 2022-23 | 2023-24 | 2024-25 | Total  |  |
| GIS I | Mapping                                                                                                                                                                                                     |      |            |         |         |         |         |        |  |
|       | HT Mapping GIS (Mapping of 1439 No 11 kV feeders having length 79174 KNi have mapped up to June 30th june 2020)                                                                                             |      |            |         |         | •       |         |        |  |
| 1     | Number of 11 kV Feeders (Total Nos of feeders 1577)                                                                                                                                                         | Nos  | 131        | 118     | 110     | 108     | 93      | 1999   |  |
|       | Length of HT Lines mapped                                                                                                                                                                                   | Кm   | 1135       | 1022    | 953     | 936     | 806     | 84026  |  |
|       | LT Mapping (No. of 14657 transformers having length of 7554 Km have mapped up to June 30th june 2020)                                                                                                       |      |            |         |         | •       |         |        |  |
| 2     | Total Number of LT Lines (179577 total distribution T/F having length of 50110 Km) upto June 2020<br>Total Number of LT Lines (3406 Total distribution T/F having length of 1567 to be added upto june 2025 | Nos  | 583        | 41937   | 41937   | 41937   | 41937   | 176862 |  |
|       | Length of LT Lines to be mapped upto june 2025                                                                                                                                                              | Km   | 2225       | 10332   | 10522   | 10522   | 10522   | 51677  |  |

| uf                      |                          | Tools And Plants for                  | HT   |        | ،<br>، . |                 | · · · · · · · · · · · · · · · · · · · |           |                      |                          |
|-------------------------|--------------------------|---------------------------------------|------|--------|----------|-----------------|---------------------------------------|-----------|----------------------|--------------------------|
| Sr.<br>No               | Description              | · · · · · · · · · · · · · · · · · · · | H/Q  | Circle | Division | Sub<br>Division | Quantity                              | Amount Rs | Total Rs<br>Millions | Remarks                  |
|                         | GPS Sets                 |                                       |      | 9X4    | 38 X 4   | 176 X 2         | 540.00                                | 19500.00  | 10.53                | 60 GPS sets<br>Available |
| -                       | Printer B&W              |                                       |      | 0.00   | 38 X 1   | 176 X 1         | 214.00                                | 15000.00  | 3.21                 |                          |
|                         | Printer coloured A3 Size |                                       |      | 0.00   | 1.00     | 1.00            | 214.00                                | 60000.00  | 12.84                |                          |
|                         | Computer / Laptop        |                                       |      | 0.00   | 38 X 1   | 176 X 1         | 214.00                                | 30000.00  | 6.42                 | U                        |
|                         |                          |                                       |      |        |          |                 |                                       |           | 33.00                |                          |
|                         |                          |                                       |      |        | •        |                 |                                       |           |                      |                          |
| Tools And Plants For LT |                          |                                       |      |        |          |                 |                                       |           |                      |                          |
|                         |                          | · · · · · · · · · · · · · · · · · · · |      |        | i=       |                 |                                       |           | ;                    | `в-                      |
| Sr.<br>No               | Description              |                                       | H/Q  | Grcle  | Division | Sub<br>Division | Quantity                              | Amount Rs | Total Rs<br>Millions | Remarks                  |
|                         | GPS Sets                 |                                       |      | 9x1    | 38x1     | 176 X 2         | 399.00                                | 12000.00  | 4.79                 |                          |
|                         | Computer / Laptop        |                                       | 0.00 | 9x1    | 38x1     | 0.00            | 47.00                                 | 30000.00  | 1.41                 |                          |
| ·                       |                          |                                       |      |        | · .      |                 |                                       |           | 6.20                 |                          |

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**建成**有效的 网络金属金属

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Multan electric power company (MEPCO) is comprised of 1577 No. 11kv feeders having length of 78308 KM emanating from 128 No. 132 kV sub-stations.

MEPCO is pioneer among the Discos of Pakistan to start GIS activity of its distribution system and till June 2020, 1439 No. 11 KV feeders have been digitized. MEPCO has developed its resources at sub division level for carrying GIS field survey of its HT /Network and remaining feeders of MEPCO will be completed by MEPCO at its own resources.

Technical loss evaluation and GIS mapping / updation of HT network and 10% of LT network was completed by M/s Power planner Intl. GIS mapping /updation of HT network and remaining LT network GIS mapping will be carried out by MEPCO resources.

In order to carry out GIS field survey and its updating, tolls like GPS sets, computers, and printers will be required.

If GIS mapping /updation of remaining HT and LT network will out sourced then the cost of carrying out GIS based mapping of HT network is taken as Rs. 300/km whereas for out sourcing of LT network Rs.260/ km.

#### C. Other Functional Improvement Plans:

### i. Commercial Improvement Plan

This plan covers the commercial improvement activities including but not limited to metering (including AMRs, Mobile Units based meter reading, improvement in billing systems, anti-theft initiatives, consumers database update, customers services improvement initiatives etc. The scope that what will be done in each of the five year under this business plan is provided here. The narrative shall is supported by justification.

#### **DIIP7 - Commercial Improvement Plan**

|   |                                                                                | ommer  | sial Dij | P-MEPC | 0      |                    |
|---|--------------------------------------------------------------------------------|--------|----------|--------|--------|--------------------|
| # | Scope                                                                          | FY21   | FY22     | FY23   | FY24   | FY25 5-YO<br>Total |
| 1 | Mobiles for MRs (Nos)                                                          |        |          | 1,084  | 2,073  | 3,157              |
| 2 | (a)Total 3-Phase Connections ( All<br>Tariffs) 5 KW & above sanctioned<br>load | 28,283 | 69,001   | 55,286 | 60,000 | 212,570            |

The Integrated Commercial Improvement Plan (ICIP) broadly aims to demonstrate commercial loss reduction, improvement in revenues and improvement in customer services through process automation, transparency, accountability, and improved productivity in order to create a foundation for sustainable commercial operations. Additional goals and objectives include:

Please refer table DIIP-4 for complete mapping of ICIP with goals and objectives. Here are the highlights related to commercial interventions:

- Improving MEPCO's operational efficiency through:
  - o Reduced commercial losses by 1% progressively over the period of five years
  - Maintaining revenue recovery up to 100% in next five years

Improving customer care and services:

- o Reducing complaints related to billings to less than 0.01%
- O Minimizing new connections installation duration to comply with NEPRA's requirements
- Minimizing reconnection installation duration to comply with NEPRA's requirements
  - Maximizing the time between date of receipt of bill and due date (07 days)

Improving MEPCO's infrastructure:

o Expansion of AMI to reduce commercial losses at high-end customers, this contributes to reduction in commercial loss

Other related objectives:

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Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

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- Streamlined procedure without compromising system of internal controls
- Re-direction of documents on an efficient path to reduce revenue cycle and process cycle time

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- Faster complaint resolution and timely availability of accurate information for better decision making
- Increased accuracy of billing through reduction of human interface in commercial processes
- Increased efficiency, easy access and administration through an online complaint system

### Problem Statement (Baseline-Defined)

The current commercial operations of DISCOs were legacy based and did not offer much in terms of transparency, data accuracy, system efficiency and services to consumers. Therefore, there was a dire need to improve commercial procedures and bring them at par or close to best practices adopted by utilities worldwide. The commercial cycle started with meter readings (which was manual), billing (which was being done through a legacy billing system), collections and customers services, which needed considerable improvements.

#### Response

As a result of comprehensive planning exercise, MEPCO has identified some low cost and quick impact interventions that would transform the way MEPCO operate commercially and would bring a paradigm shift in its commercial operations. The ICIP is an optimal fusion of all the activities that would be implemented through the course of five years to revolutionize the business practices adopted by MEPCO and take its commercial operations further.

The ICIP offers a holistic approach as it not only targets the main goal of the organization i.e. increased revenues but also takes the customers' perspective into consideration through improved services. The ICIP starts with striking the heart of commercial operations i.e. the provision of correct consumer and billing data. Hence, the Improved Meter Reading (IMR) initiative was designed to correct the baseline so that if any consumer was under billed or over billed, it might be adjusted accordingly and also the consumer database is also correct with regards to its tariff and other important parameters. The IMR was a pre-requisite for the Mobile Devices Project. To further strengthen the meter reading process and make it more stringent against inaccurate readings, the support of latest technology is being utilized thus, MMR is being implemented across MEPCO. This will not only enhance the capability of meter readers to take accurate readings but will also build the confidence of consumers in the bills that they receive. MEPCO has already converted its meter reading on MMR and has achieved significant results in this regard.

Special attention will be paid to all three phase consumers of MEPCO with a load above 5kW whereasconsumers having load 20kW and above in all MEPCO and all tubewell consumers of Multan, Khanewal & Vehari circles were already covered by AMRs under USAID Power Distribution Program (PDP). All AMR meters of Whole Current meters are having remote connect-disconnect capability to help the DISCOs to remotely connect or disconnect the customers on non-payment. The AMR meters are enabling the DISCO to give special treatment to its high revenue consumers by getting accurate and timely readings. Another aspect of installing AMRs is the trigger that they send to the DISCO in case of any potential thert. It will add another level of monitoring to the existing mechanism of the DISCO while a separate cell will be established as well to counter the alarms triggered by the AMR meters.

Further, in order to curb potential theft and non-recovery, a surveillance unit will also be setup across the DISCOs that will be responsible to monitor incidents of theft and guard the revenues of the company. This cell will also enforce the nonpaying consumers to pay their outstanding dues. To achieve excellence in customer services, the Customer Service Centers (CSCs) will be upgraded in each subdivision. These centers will facilitate the consumers and improve the brand image of MEPCO in the eyes of the consumers. In conjunction, a Customers Management System (CMS) will be launched all across MEPCO, along with a toll free number where consumers can file their complaints.

All these integrated commercial efforts will create a synergized effect of improving the commercial performance of MEPCO and making it a more profitable entity. Therefore, based on the return on investment offered, these projects have been chosen.

Please refer table DIIP-18 above for summary scope by year and refer to **Annexure-10** for details on scope and cost.

### AMIs Extension

AMI technology has been designed to assist MEPCO in achieving significant improvement in commercial performance through integration of advanced metering processes. MEPCO has an outdated metering system based on electro-mechanical metering subject to inaccurate manual readings and field tampering, resulting in a significant loss of revenue and increased opportunities for theft. The project aims to scale-up the AMR system to help reduce distribution losses, enhance load control and load management, provide automated consumption (billing) data, improve revenue collection and customer services, reduce billing complaints, increase operational efficiency, reduce operating costs and modernize the electricity metering and billing operations while also responding to AMR meter alerts and events.

Thus, under this activity, MEPCO plans to carry out a large-scale meter replacement program across its territory, with AMR (GSM/GPRS) meters for high-end residential, agricultural, commercial and industrial customers. For these meters in-case of disconnection initiated by the backend system, the AMR meter will not reconnect until it receives a reconnection command. These will also have the capability to support two different load thresholds against different time slots (peak/off peak) which will be programmed to activate disconnection/reconnection automatically.

Furthermore, to effectively implement the AMR project and enable a smooth transition, an AMI Cell has been established with the help of USAID PDP within the existing DISCO IT department to undertake the responsibility of AMR system.

MEPCO under this DIIP will further Procure 212570 AMI meters for all remaining 3-Phase Connections.

Further MEPCO has already procured the 135,000 RF based Single Phase Meters for which the Sahiwal Circle was selected and these meters are functioning properly.

Please refer table DIIP-18 above for summary scope by year and refer to **Annexure-11** for details on scope and cost.

### Customers Information System (CIS) & Data Center

The operations of DISCOs are characterized by manual and cumbersome processes, inadequate controls, insufficient commercial focus, limited transparency and a lack of reliable information. As a result, operations are highly inefficient with substantial revenue leakages and poor customer orientation. Integrating and automating core commercial functions like meter reading and billing/collections will minimize the human element in commercial processes and lay the foundation for sustainable revenue cycle reforms.

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Integrating and automating core commercial functions like meter reading and billing/collections that will minimize the human element in commercial processes and lay the foundation for sustainable revenue cycle reforms is being planned. From customer care and metering to billing, payments, credit and collections, these applications enable the customer experience and support all aspects of billing and revenue collections. Augmented with Mobile Meter Reading devices, the CIS has generated more accurate consumer bills and a one-window customer services facility has provided improved customer experience. This will result in improved operational efficiency, increased accuracy of bills, and reduced process cycle time and more efficient customer services with a reduction in customer complaints.

CIS is a web based application system. The required servers and allied hardware has already been provided earlier by PDP. PDP-PITC developed the CIS application whereas Oracle license for database got purchased by MEPCO. The CIS rollout comprises of numerous elements including the application software, database engine, computer hardware and networks (LANs and WANs), network installation and testing, data conversion from legacy system to a new system, data cleansing, pre-installation and on-the-job training, and operational support for a limited time. Now CIS has already been installed in all 9 Circles but time to time modifications in the applications are still being carried out which will be implemented by PITC. However, it has been felt that there is a strong need to replace the old servers therefore; MEPCO will replace the servers in the coming years.

In future, MEPCO intends to transfer the CIS servers, installed at PITC to MEPCO data center.

### DIGITAL TRANSFORMATION IN MEPCO

Digital Transformation is the process of using digital technologies to create new — or modify existing — business processes, culture, and customer experiences to meet changing business requirements.

For this purpose IT Directorate has proposed a comprehensive roadmap plan which will change the overall face of MEPCO. MEPCO top management will get the information from digital control room and take the initiatives timely and proactively.

If MEPCO wants to prosper in true letter and spirit and take the benefits of technology then it is proposed that following technologies need to be adopted in future:

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### A. Enterprise Asset Management

Enterprise asset management (EAM) combines software, systems and services to help maintain, control and optimize the quality of operational assets throughout their lifecycles. Currently in MEPCO there is no any proper Asset Management System operational in MEPCO which is leading to undue cost leakage, asset health status, replace and repair priorities, risk identification,data analytics, etc.

Following are major features/benefits of Asset Management Software:

- Detect potential issues
- Return on Investment
- Real Time Asset tracking
- Data Analytics
- Saving inventory expenses
- Improves asset performance to reduce downtime
- Schedules Preventive Maintenance to prevent problems
- Improves processes such as warranty management

### **B.** Enterprise GIS

Though the DISCOs have learned how to function with bad quality and out-of-date data and in spite of poor operational performance they are still providing services. They connect new customers and distribute energy, but for long outages, damages from false start, unnecessary field work, they simply incorporate in them into energy prices. If power distribution utility has consistent and up-to-date data, then those expenses can be decreased to minimum.

An Enterprise GIS is a comprehensive geographic information system (GIS). It contains all the elements needed to solve utility challenges and includes tools to help you leverage digital maps. The implementation of GIS infrastructure, processes and tools are needed at a scale within the context of an organization, shaped by the prevailing information technology patterns of the day. The system maintains key information, analyzing and distributing it to everyone that needs business intelligence through a system of record, a system of engagement, and a system of insights.

Following are benefits of implementing Enterprise GIS:

- Better Service to customers
  - Ability to locate/inform impacted customers
  - Improvement in trouble call resolution through network analysis
  - Etc
- Improve Efficiency of operations
  - Ability to get accurate network asset information
  - Avoid duplication of effort.

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- Informed decisions making
- Etc
- Reduce Costs
  - Better network planning/design
  - Reduce manpower through automation
  - Contribute to reducing T&D losses
  - Etc
  - Overall improved reputation & safety of operations

#### C. Meter Data Management (MDM)

Currently nearly 41000 Smart Energy Meters have been installed and appx. 212,570 more three phase connections will be purchased in four years from 2020-21 to 2023-24.

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MDM is an Multi-vendor Enterprise-wide data management solution which receives energy data in many forms and from a growing diversity of network sources like RF, PLC, GPRS/3G/4G. It validates, edits, and formats the data for use by different applications & analysis.

### Following are features of MDM:

- Capacity to archive huge amount of data for years
- Simplify future integration of new AMI technologies
- Manage collection of meter readings and facilitate two-way requests from multiple technologies for the same meter
- Simplify integration of new meter reading and billing system technologies acquired through merger and acquisition
- Validate, edit and store commercial and industrial readings along with mass residential readings
- Smart meter deployment planning and management;
- Make efficient energy buying decisions based on the usage patterns,
- Detecting and reducing unbilled energy.

#### D. Distribution Network Management (DNM)

DNM is a system, capable of collecting, organizing, displaying and analyzing real-time or near realtime electric distribution system information. A DNM incorporates IVR and other mobile technologies, through which there is an improved outage communications for customer calls, provide customers with more accurate estimated restoration times and Improve service reliability by tracking all customers affected by an outage, determining electrical configurations of every device on every feeder, and compiling details about each restoration process.

Main features and benefits are:

- Provides clear and consistent real-time, forecasted, and historical views of the distribution network.
- Allows system operators, field crews, planning engineers and managers to work as a team accessing the same as-operated representation of network grid information.
- Network Connectivity Analysis
- Switching Schedule & Safety Management
- State Estimation
- Load Flow Applications
- Load Shedding Application
- Fault Management & System Restoration
- Load Balancing via Feeder Reconfiguration
- Distribution Load Forecasting

#### E. Outage Management System (OMS)

An OMS provides rapid real time information to predict outages, enabling to respond quickly when faced with extreme weather or excess demand. OMS identify outages and provide instant alerts. OMS systems usually work in tandem with GIS or geographical information systems, CIS or customer information systems and call handling systems such as IVR (interactive voice response).

### Major features usually found in an OMS are:

- Reduced outage durations due to faster restoration based upon outage location predictions.
- Reduced outage duration averages due to prioritizing
- Improved customer satisfaction due to increase awareness of outage restoration progress and providing estimated restoration times.
- Improved media relations by providing accurate outage and restoration information.
- Fewer complaints to regulators due to ability to prioritize restoration of emergency facilities and other critical customers.
- Reduced outage frequency due to use of outage statistics for making targeted reliability improvements.

#### F. Mobile Work Force Management (MWFM)

While remote work offers countless benefits, it can present new challenges as well. With employees working from various locations and less face-to-face interactions with managers and coworkers, the mobile workforce can be tricky to manage. However, with a robust workforce management system, managers can gain insight into what's going on with each employee through one convenient platform.

Mobile Workforce Management is used to manage employees working outside the company premises (field teams) by using mobile devices, mobile aps and PC software.

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#### Main features are:

- It provides timestamps and captures locations.
- It offers flexible scheduling.
- It sends alerts in real time.
- It supports customization according to industry needs.
- It allows seamless reporting and third-party integrations.
- Less down time, fewer inefficiencies, and ultimately, better performance.

#### G. Transformer Monitoring System (TMS)

To achieve an appropriate level of safety and reliability in power grids, real time monitoring of the grid is considered as an essential requirement. In the existing distribution system of DISCOs there is no protection for a distribution transformer other than D-Fuse which is unfortunately, not properly implemented in the field. As per survey of an independent 3<sup>rd</sup> party, more than 80% of breakdown in field is being faced in 100 & 200 KVA transformers which indicate the necessity of an adequate protection. Real time monitoring of distribution transformer will enable the utility to monitor critical electrical parameters i.e. voltage, current, harmonics, active, reactive and apparent power, power factor, ambient temperature, etc.

Fundamental aspiration of any DISCO is to appease its customers by its performance and reliability. There are state of the art monitoring and control mechanisms installed in power grids which play vital role in keeping utility's power system up and running. Distribution transformer is another critical and valuable component in power system especially in distribution grids as it is the source of supply to consumer. Consequently, it is prone to different kind of faults and problems.

#### Main Features:

- It prevents circuitry from damage
- Avoid interruption in power supply
- Remove power blackout at pick hours
- Accident prevention
- Transformer safety

#### H. Enterprise Analytics

Companies need to know what data they should be analyzing to ensure that the right employees have the right access to the right data sources to present data visualizations that provide business leaders with the real-time insights they need.

A form of big data analytics where an organization can perform analytical processes on the data stored across the organization. It is used by data analysts, big data analysts and/or web analytics to extract meaningful data or relations from the raw data repositories it has.

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Enterprise Analytics is a process by which businesses use statistical methods and technologies for analyzing historical data in order to gain new insight and improve strategic decision making.

### Following are main features of Enterprise Analytics:

- Decision Analytics: Supports human decision with visual analytics
- Descriptive Analytics: Gains insight from historical data
- Predictive Analytics: Employs predictive modeling using statistical and machine learning techniques
- Prescriptive Analytics: Recommends decisions using optimization, simulation, etc.

Please refer to Annexure-12 for details on scope and cost.

### Customers Service Center (CSC) Up-grade and Complaints Management System (CMS)

Efficiently Customer Services are a critical success factor for MEPCO who bear a significant responsibility to provide continuous and reliable services to their customers. Currently following services are being provided to Regional Customer Services Centre, MEPCO H/Q Multan.

#### Interactive Voice Recording System (IVR).

IVR is a technology that allows a computer to interact with customers through the use of voice input via keypad and has been introduces at MEPCO CSC to allow callers to lodge various complaints. Through Toll Free No. 0800-63726

#### Queue Management System.

Queue Management System is designed to help managers through enhanced customer service, improved efficiently and reduced costs. If comprises a token dispenser and counter display alert system with four counters at MEPCO's Customer Services Centre. Different complaints are entertained at respective counters and token are issued to walk-in customers to accurately detect the number and behavior of people in the queue.

#### Online Complaint Management System (OCMS).

OCMS is one of the latest productivity entertainment tools widely organizations where there is a need to book complaints via operators and analyze the complaint that are make or are pending. Through this, the concerned Customer Services Representative (CSR) register complaint and fills out the requisite information received through the complainant.

Thus, by optimizing the complaint handling process, speeding up the turnaround from complaint submission to resolution, and keeping the overall quality of online customer complaint system always reading for audits, this initiative aims to ensure transparently and efficiently of commercial procedures while bringing about a fundamental change in the work culture. While the current OCMS can only pick basic information of customers, when interfaced with CIS, we will be able to get comprehensive consumer information for efficient complaint resolution. This will further create a positive image of MEPCO for the customers, motivate employees to work the overall performance improvement of the Company and provide an environment for the sustainability of the new technology and improvement in OCMS.

Regional Complaint Centre, MEPCO is dealing complaints received from following formations.

- 1. Prime Minister's Delivery Unit, (PMDU) Islamabad Complaints.
- 2. Federal Complaint Cell (FCC), Ministry of Energy (Power Division) Islamabad Complaints.
- 3. MEPCO Online Complaints received through MEPCO Toll Free No. 0800-63726.
- 4. Walk-In Customer Complaints.

5. Complaints Marked by CEO MEPCO H/Q Multan.

6. Complaints' Received through DAK.

All above complaints received in CSC MEPCO H/Q Multan forwarded to concerned SDO/XEN/SE through Online Complaints Management System (OCMS) and also OCMS sends SMS of complaint details concerned SDO/XEN/SE for early resolved.

After redressal of complaints MEPCO CSC send detail report to concerned offices.

Available resources at CSC MEPCO H/Q Multan.

- 1. Interactive Voice Recording System (IVR)
- 2. Queue Management System.
- 3. Online Complaints Management System (OCMS)
- 4. 10 Nos. Computers.
- 5. 04 Nos. Lines for MEPCO toll free No. 0800-63726 for Online Complaints.
- 6. 04 Land Lines for follow up of all complaints.
- 7. 01 No. Cell Phone for follow up of complaints.
- 8. Fax machine.
- 9. Printers.
- 10. Photo Copier Machine.
- 11. Scanners.

These facilities are running at MEPCO H/Q and All Circles. Now MEPCO plans to establish the same in each Sub Division till ending 2023.

Please refer table DIIP-18 above for summary scope by year and refer to Annexure-13 for details on scope and cost.

#### Surveillance

T&D losses of DISCOs are one of the primary causes for Pakistan's circular debt in the energy sector. Power theft is a major contributor towards T&D losses and poor collections in the DISCOs. In MEPCO currently Monitoring & Surveillance (M&S) department is working at Head quarter level to carry out investigations on public / consumers complaints received from Ministry of Power Division, Prime Minister Delivery Unit, S&I PEPCO, Info reports, NAB, FIA, Chief Executive MEPCO, Roshan Pakistan and Open Katchery. Checking / raids of suspected consumers assessed in detecting theft of electricity and making strenuous efforts regarding eradication of the menace of pilferage of electricity.

Thus, with an overall objective of increasing collections and decreasing losses, MEPCO's M&S department is identifying discrepancies in metering equipment's during monthly random / routine checking and raising detection bills in consultation with respective DMOs / AMOs. The procedure for surveillance includes survey and inspection of theft cases through coordinated field teams, prosecutable evidence collection through standardized forms, photographs and defined procedure, FIR application and registration, penalty (detection bill preparation), legal action and case management.

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As part of this project, surveillance teams will be formed at Division Level to perform Surveillance / M&S to improve recovery and reduction in theft for which 38 Nos vehicles and other allied accessories are required. For prompt surveillance on the AMI alerts, M&S and M&T staffs have been working jointly to visit the sites and detect problems and discrepancies to avoid any revenue losses. Surveillance will be carried out on the discrepancies pointed out by the meter reader / follow up teams where IMR/ HHU are being implemented along with meters that have not been replaced yet. Random surveillance will also be carried out in high end commercial and residential areas and those with high loss feeders.

Please refer table DIIP-18 above for summary scope and refer to Annexure-14 for details on scope and cost.

### ii. Financial Management Improvement Plan

MEPCO has already implemented ERP with USAID PDP's assistance. The costs for ERP implementation have already been covered. Further USAID PDP has assisted MEPCO to improve the internal audit function and audit and accounting manuals. Provision for covering the bandwidth operational costs is also made under this DIIP for ERP. Further staffing required to scale ERP company-wide is part of the HR plan.

DIIP8 - Financial Management Improvement Plan

### Financial DIIP- MEPCO

# Description

FY 2020-21 FY 2021-22 FY 2022-23 FY 2023-24 FY 2024-25 5-Year Total

1 ERP

Financial Management, Materials Management & Human Resource Management Modules are already implemented and online.

We have started work on Pension and work flows, PM/PS will be kicked off during 2022 . SAP Upgrade will commence during 2024-25.

#### SAP Plant Maintenance

SAP Plant Maintenance (SAP PM) application component provides an organization with a tool for all maintenance activities to be performed. All the activities that are performed under maintenance are interconnected and hence this module is closely integrated with other modules - Production Planning, Material Management, and Sales and Distribution.

Plant Maintenance contains the following sub modules -

- Management of technical objects and equipment master record.
- Planning of maintenance task.
- Manage workflow notifications and work orders under maintenance order management.

Following activities are performed under Plant Maintenance -

- Inspection
- Preventive Maintenance
- Repair

Following are the key modules in which integration is performed with Plant Maintenance

- Material Management
- Sales and Distribution
- Personnel Management
- Controlling
- Production Planning
- Project Systems

#### Project Systems

Project System is one of the key modules of SAP to perform project and portfolio management. It helps to manage the project life cycle starting from structuring to planning, execution, until the project completion. Project system is closely integrated with other SAP modules like logistics, material management, Sales and Distribution, Plant Maintenance, and Production planning module

As per budget, projects can be categorized in the following categories,

- External Financed Projects
- Internal Financed Projects

Following are the key steps involved in Project process flow -

- Create Templates/WBS
- Create Project
- Project Planning
- Budgeting and Release
- Project Implementation
- Project Completion

Following are the key modules in which integration is performed with Project Systems

- Finance & Controlling
- Material Management
- Sales & Distribution
- Production Planning
- Personnel Management
- Plant Maintenance

#### Pensions:-

Pension is module to be covered under FICO and HCM, we need configure at our SAP system ,We are in process of automation of retired employee pensions. We need to buy 25 blocks to buy from SAP. Where as we 36 Blocks already which we are managing the mepco regular employes.by emplementing this module we can distribut the employe pention like our salery already through SAP.We are expecting we can configure the required configuration at our SAP system by our own resources.We have to buy sap blocks which cost us approximate 25 M. Once we configure the system then we need to buy the required users blocks which is expecting by June 2021.

#### iii. Human Resource Improvement Plan

This plan covers the HR improvement activities, revamping / addition of training facilities, training of employees through external facilities, improving the working environment etc. Under this section scope that what will be done in each of the five year under of business plan is discussed. The narrative shall also be supported by the justification.

### DIIP9 - Human Resource Improvement Plan

HR DIP-MEPCO

| # Scope | FY21 FY2 | 2 FY23 | FY24 | FY25 | 5-Year Total |
|---------|----------|--------|------|------|--------------|
|         | •        |        |      |      |              |

Improving the Working Env. Of officesFurnishing the Office Buildings with new furniture andallied equipment in order to improve the working

| 2 Trainings                                             | Trainings of officers and officials to improve skills                      |
|---------------------------------------------------------|----------------------------------------------------------------------------|
| <b>3</b> Improving Health & Education facilities        | Implementation of Well fare Policies particularly educational scholarships |
| 4 Manpower Plan & Revision of<br>Organization Structure | Align org structure with business strategy                                 |

The Human Resource Improvement Plan (HRIP) broadly aims to increase the functional capacity of DISCO staff by providing the institutional model for technical and behavioral skills among the company's employees. It also aims to increase the productivity and quality of services provided both internally and externally, creating a foundation for sustainable HR operations.

Please refer table DIIP-9 for detailed mapping of HR initiatives with goals and objectives, with a summary mapping discussed below:

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Human-ware:

- Improving MEPCO's infrastructure:
  - O Starting training and capacity building initiatives
  - 0 Staffing / Recruitment

Org-ware:

- o Manpower Plan & Revision of Organization Structure
- 0 Improving office facilities/work environment
- o Conducting motivational campaigns
- o Preparation of MEPCO HR Manual

Please refer Annexure-16 for details on scope and cost.

Further more we can connect the system with biometric machansim for authentication /varification of pensioners and it can be distribute centrally llike we are doing with our regular employee salaries.Pension system will help us to control any duplication/miscalculation.

### Dash Board:-

We are live with SAP since 2018, now we feel to facalitate our management to get reports on single click. We need to configure our SAP system to activate the dash board in SAP.We need to out source the project to get it complete. We are planning it should be completed by 2022-2023. The approximate cost for the project 15 Millions.

### Upgrade SAP

We are using sap Ecc6.7 since we installed at our Mepco.SAP ECC6 series is abasolute since 2015, we need to upgrade our SAP and our data centre hardware to meet SAP HANA which is latest available release.That need complete system configurations and implementation of entire system.

This very sensitive issue that our all customization will not be upgraded so we need experties to implement the project. We need to outsource the project to some SAP implementation partner. We are expecting the total project cost around 30 Millions. We can plan this activity fiscal year 2024-25

HCM work flow This has been decided to implement HCM work flow to copup real benefits of our HCM module. We have identified 52 work flow to be implement at our current HCM.

We need to get it done by external sourse .we are in process of RFQ and analyzing the project.We are expecting it would be done during 2021-22.our estimate for the project is 3.5 Millions.

#### E-Tendering:-

MEPCO is working on E-Tendering project which would be accomplished within next financial year.

#### **FICO Integration:**

We need to configure the our billing system (CIS) with SAP.Need external resource to out source the project. The process wil help up to get online data from billing system.

### Multiyear Tariff (MYT) Petition

MEPCO has planned to prepare and submit its Multiyear Tariff Petition for the period 2021-25 in accordance with the NEPRA Tariff Guidelines-2015. The objectives of Multiyear Tariff Petition aim to increase the stability and predictability of future revenue chain of the licensee (MEPCO). It focuses on rationalized increase in the demand of electric power, expansion of facilities and expenditure on O&M (OPEX) and investment activities (CAPEX). Further the Multiyear Tariff Petition would minimize the risks of regulatory assessment by NEPRA and MEPCO would be in the better position for planning and strategic decision making.

Please refer Annexure-15 for details on scope and cost.

### Improving the Working Environment

MEPCO contains the Fleet of 1137 vehicles of different categories which are following:

| Type Of Vehicles | No Of Vehicles | Type Of Vehicles | No Of Vehicles |  |  |  |
|------------------|----------------|------------------|----------------|--|--|--|
| Cars             | 29             | Coasters         | 10             |  |  |  |
| Jeeps            | 145            | Bus              | 1              |  |  |  |
| Vans             | 32             | Cranes           | 55             |  |  |  |
| Double Cabins    | 32             | Aerial Buckets   | 9              |  |  |  |
| Single Cabin     | /71            | Eatly Lifters    | 24             |  |  |  |
| Pickups          | 471            | TOIR Litters     | 24             |  |  |  |
| Trucks           | 236            | Rikshaws         | 70             |  |  |  |
| Trailors         | 17 .           | Tractors         | 6              |  |  |  |
| Total =1137      |                |                  |                |  |  |  |

Most of vehicles have completed their useful lives; approximately 600+ vehicles are more than 25 years old. The phenomena has vital expects of increasing expense on day to day repair the budget allocated from the wear and tear for 2019-2020 financial year 50 million has been consumed whereas the total budget for the P.O.L is approximately 350 million which consumed every year before the end of financial year, the field formation concentrate on the operation duties owing to emergency and do not bother to get the vehicle repair timely. which Further deteriorate the condition of vehicle and others excepts cannot getting vehicle is the budget allocated is not according to the requirement of held and only fulfil the demand of P.O.L and the maintenance / repair is either postponed are ignored due to non-availability of funds.

The repair is carried out as per SOP devised by MEPCO but the expenditure is increasing tremendously due to old obsolete models of vehicles which consumed P.O.L at maximum being old and ancient Technology

In this context is stated that MEPCO BOD has approved amortization policy for which phase wise demand of funds has been suggested and Finance Director MEPCO is purposing budget provision for the next Financial years. Hence the proposed purchase of vehicle for MEPCO Officers is mentioned in the further budget plan of 5 years. The saving analysis of the company is also prepared by Finance Director which shows cost saving of 110 million rupees per year.

| TRANSPORTATION PLAN EXPENSE FOR NEXT FIVE YEARS |     |             |     |           |     |       |     |                |     |          |
|-------------------------------------------------|-----|-------------|-----|-----------|-----|-------|-----|----------------|-----|----------|
| Description of Items                            |     | 3/8/02/02/6 |     | 120759257 |     |       |     | 141172 9/1 ··· | 198 | 17202035 |
|                                                 | No. | Total       | No. | Total     | No. | Total | No. | Total          | No. | Total    |
| Bucket Mounted Vehicle                          | 28  | 284         | 28  | 8         | 28  | 10    | 28  | 11             | 28  | 13       |
| Crane                                           |     | -           |     | -         | I   | -     |     |                | 15  | 187      |
| Fork Lifter                                     |     | -           |     |           |     | -     |     |                | 7   | 80       |
| Truck (13 Ton)                                  | 1   | 12          | 1   | 0         | 1   | 0     | 1   | 0              | 1   | 0        |
| Truck (03 Ton)                                  |     | -           |     | -         | 30  | 186   | 50  | 133            | 70  | 141      |
| Coaster                                         |     | -           |     | -         |     |       | 6   | . 70           | 6   | 1        |
| Single Cabin (4x4)                              | 3   | 16          | 3   | 1         | . 3 | 1     | 3   | .1             | 3   | 1        |
| Single Cabin (4x2)                              |     | -           | 50  | 240       | 72  | 118   | 72  | 19             | 72  | 22       |
| Van                                             | 2   | 14          | 2   | 0         | 2   | 0     | 25  | 190            | 25  | 6        |
| Tractor Trolley (65-HP)                         | 1   | 2           | 1   | 0         | 1   | 0     | 1   | 0              | 1   | . 0      |
| Toyota Altis 1.6 Auto (1600cc)                  |     | -           |     | -         | 1   | 4     | 1   | 0              | 1   | 0        |
| Car (1600cc) MIRAD                              | 1   | 3           | 1   | 0         | 1   | 0     | 1   | 0              | 1   | 0        |
| Yaris GLI 1.3 Auto (1329cc)                     |     | -           |     | -         | 10  | 37    | 10  | 3              | 10  | 3        |
| Yaris GLI 1.3 Manual (1329cc)                   |     | -           |     | •         | 37  | 101   | 37  | 7              | 37  | 9        |
| Car (1300cc)                                    | 3   | 8           | 3   | 1         | 129 | 418   | 129 | 30             | 129 | 32       |
| Car (1000cc)                                    | 6   | 11          | 210 | 465       | 210 | 29    | 210 | 36             | 210 | 40       |
| Total                                           | 45  | 351         | 299 | 715       | 525 | 905   | 574 | 499            | 616 | 536      |

Training Courses Details for officials to be conducted at RTC and CTC's

1. During FY 2019-20, almost 2392 Nos. of Employees of different cadres were trained by MEPCO in different courses.

|          |                           |                     | 2019-2020                            |
|----------|---------------------------|---------------------|--------------------------------------|
| Category |                           | No. of Participants | Financial Implication<br>(Estimated) |
| cers     | BPS-18/19                 | 27                  | 16929000                             |
| Offi     | BPS-16/17                 | 47                  | 15259000                             |
| cials    | BPS-05<br>to 15<br>(RTC)  | 663                 | 41017821                             |
| Offic    | BPS-05<br>to 15<br>(CTCs) | 1655                | 22900235                             |
|          | Total                     | 2392                | 96106056                             |

- 2. Annual schedule of trainings / classes to be conducted at RTC and CTC's is prepared in advance and got approved from MEPCO H/Q.
- 3. Nomination of the trainees is made by the concerned offices which are maintaining seniority lists according to approved schedule.
- 4. Arrival of the class is taken by class incharge nominated by Principal RTC / CTCs on the 1st day of training.
- 5. Weekly schedules are prepared by training incharge and class incharge.

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Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

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- 6. To increase the communication skills and improve the moral values of trainees especial session of Tilawat / Tafseer and Thought of the day is conducted every day for all classes in the morning, wherein participation of all trainees is ensured.
- 7. Training is imparted in the light of preapproved course contents for all classes.
- 8. Lectures on all topics are delivered by trainers having good knowledge, where needed guest speakers are also invited to meet the requirements of trainees.
- 9. To make the training effective trainees are given lectures in the class rooms according to weekly schedule and different practicals are perform in the labs and practical yard.
- 10. Special emphasis is lay down on the development of safety culture in the organization.
- 11. Trainees along-with representative of RTC / CTCs are sent to different field offices for on job training.
- 12. Study tours are also arranged where needed to improve the effectiveness of training.
- 13. At the end of session final examination is conducted for which papers are prepared by Examination Cell from relevant officers.
- 14. Examination of Technical classes also include practical and safety papers which are mandatory to successfully pass the examination.
- 15. Results of the examination is declared by Principal RTC after receipt of checked paper from Director Examination of MEPCO H/Q.
- 16. Special classes are also conducted at RTC according to the need and requirement of company as required by MEPCO H/Q.

### HEALTHCARE FACILITY

MEPCO has adopted PEPCO Healthcare Policy with the approval of MEPCO BOD and enhancement in rates have been applied as given below:

#### Maternity Charges for delivery in Hospital:

- i. Rs.20,000 for normal delivery in Hospital.
- ii. Rs.50,000 in C.Section cases
- iii. Rs.5,000/- if delivery is conducted at residence of the employee

#### **Reimbursement Facility**

Reimbursement on twice the rates of CMH on referred cases. Reimbursement on treatment of chronic diseases on actual expenditure.

#### Reimbursement Limits.

- i. Where the Medical Facility Exists. Upto 01 month's running basic pay in a financial year.
- ii. Where the Medical Facility Does Not Exist.
- Upto 03 month's running basic pay in a financial year.
- iii. The chronic and life-saving emergency cases exempted from above restriction

#### Advance for Non-Fatal Accidents.

In case of non-fatal accident, the concerned Drawing & Disbursing Officer (DDO) will arrange advance payment.

### Reimbursement Limits.

Limit or reimbursement of medicine be enhanced as under:-

Where the Medical facility Exist.

Upto 01 month running basic pay of the employee.

Where the Medical Facility Does Not Exist.

- Upto 03 month running basic pay in a financial year.
- Note: There will be no restriction on reimbursement for treatment of chronic diseases as determined by the board.

MEPCO is already improving medical facilities for MEPCO employees by providing best facilities. In this connection, MEPCO has made agreement with Ch. Pervaiz Elahi Institute of Cardiology Multan for treatment of MEPCO Patients regarding Heart Diseases. The use of medicated stunts instead of ordinary stunts in Heart Surgery / Angioplasty has been allowed as per recommendation of Treating Consultant if required for MEPCO employees (Serving, Retired and Family Pensioners of MEPCO only) in relaxation of "The Pakistan Wapda medical Attendance Rules 1979.

To provide better treatment facilities, MEPCO signed a contract with Shoukat Khanum Memorial Cancer Hospital & Research Centre Lahore for treatment facilities of cancer patients of MEPCO (Serving, Retired and Family Pensioners of MEPCO only) in relaxation of "The Pakistan Wapda medical Attendance Rules 1979.

#### Accommodation

### Official Residential Accommodation

MEPCO is proving following residential accommodation

| A-Type | B-Type | С-Туре | D-Type | E-Type | F-Type | Total |
|--------|--------|--------|--------|--------|--------|-------|
| 1      | 59     | 90     | 253    | 495    | 784    | 1691  |

#### Official Hostels

| Sr.<br>No. | Hostels                  | Total No.<br>Rooms | Full Room<br>Allotted | Room<br>Allotted<br>Sharing<br>Basis | No of<br>Officers<br>residing in<br>Hostel |  |
|------------|--------------------------|--------------------|-----------------------|--------------------------------------|--------------------------------------------|--|
| 1          | Sr. Officer Hostel,      | 4                  | . 4                   | -                                    | 4                                          |  |
| 2          | Sr. Officer Hostel, B-16 | 4                  | 3                     | 1                                    | 4                                          |  |
| 3          | Sr. Officer Hostel, B-02 | 4                  | 3                     | 1                                    | 4                                          |  |
| 4          | Bachelor Hostel          | 19                 | 9                     | 10                                   | 29                                         |  |
| 5          | Female Hostel            | 4                  | -                     | 3                                    | 6                                          |  |
| 6          | Family Suit (02 Rooms)   | 4 Suit             | -                     | -                                    | 4                                          |  |

### Communication

### Mobile Phone Services

- Annual Mobile Phone Service Contract was initially made on 01.01.2012 with M/S Telenor Pakistan which renewed time to time up to 31.03.2018.
- New Mobile Phone Service Contract was made on 01.04.2018 with M/S Pak Telecom Ltd. (Ufone) after adopting Tender Procedure.
- o Contract has renewed on yearly basis. Existing Contract will be expired on 31.03.2021

### Courier Services

• M/S TCS Pakistan is providing courier services

### **Renovation of Offices / Residential Accommodation**

All offices / official residences are being repaired / maintained time to time.

#### Office Supplies

All offices are being provided office supplies stationary & consumable items for smooth functioning of work.

### Furniture, Fixtures, Computer & allied equipments

Furniture, fixtures, computer & allied equipments are being provided to run office work smoothly in accordance with modernization.

#### Welfare

#### • Welfare Grant

Welfare grant is being provided to widows of retired / deceased MEPCO employees.

#### • Marriage Grant

All MEPCO service / retired / family pensioners are provided marriage grant

#### Scholarships

Scholarships are being provided to working employees to facilitate employees in education of their children.

#### Staffing Plan:

The recruitment plan is an essential component of the HR plan. Appropriate staffing aligned with Business Strategy is a must to ensure smooth implementation of projects, operations, sustainability and achievement of goals. Below is the recruitment plan from FY 2020-21 to FY 2024-25 involving the staff for IT, Planning, Strategic Planning, commercial, communications, transmission and distribution.

|           |                                  | . ST | AFFI          | NG PLA          | N               |                 |                 |                 |
|-----------|----------------------------------|------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Sr.<br>No | Title                            | BPS  | Total<br>Nos. | F.Y.<br>2020-21 | E Y.<br>2021-22 | F.Y.<br>2022-23 | F.Y.<br>2023-24 | F.Y.<br>2024-25 |
| 1         | DG / GM / CE (MIRAD)             | 20   | 1             | 0               | 0               | 0               | 0               | 1               |
| 2         | Company Secretary                | 19   | 0             | 1               | 0               | 0               | 0               | 1               |
| 3         | Director (Legal &Labour)         | 19   | 0             | 1               | 0               | 0               | 0               | 1               |
| 4         | Director (Legal / Contract)      | 19   | . 1           | 0               | 0               | 0               | 0               | 1               |
| 5         | Manager (Internal Audit)         | 19   | 0             | 1               | 0               | 0               | 0               | 1               |
| 6         | Manager (Planning & Forecasting) | 19   | 1             | 0               | 0               | 0               | 0               | 1               |
| . 7       | DM (ERP)                         | 18   | 0             | 1               | 0               | 0               | . 0             | U               |
| 8         | DM (CPC Tariff)                  | 18   | 0             | 1               | 0               | 0               | 0               | 1               |
| 9         | DM (Taxation & Banking)          | 18   | 0             | 1               | 0               | 0               | 0               | 1               |
| 10        | DM (Legal / Contract)            | 18   | 1             | 0               | 0               | 0               | 0               | 1               |
| 11        | DM (Finance)                     | 18   | 1             | 0               | 0               | 0               | 0               | 1               |
| 12        | DM (Demand Forecasting)          | 18   | 1             | 0               | 0               | 0               | 0               | 1               |
| 13        | AM (Transmission Planning)       | 17   | 1             | 0               | 0               | 0               | 0               | 1               |
| 14        | AM (Legal)                       | 17   | 0             | 1               | 0               | 0               | 0               | 1               |
| 15        | Jr. Engineers/ SDOs              | 17   | 3             | 60              | 22              | 20              | 20              | 125             |
| 16        | A.M (CS) / RO                    | 17   | 0             | 5               | . 4             | 4               | 4 .             | 17              |
| 17        | A.M (HRM / Admn)                 | 17   | 1             | 5               | 5               | 4               | 3               | 18              |
| 18        | A.M (MM) / FSM                   | 17   | 0             | 4               | 3               | 3               | 3               | $\mathbf{O}$    |
| 19        | A.M (P/SA)                       | 17 - | • • 0         | 2               | 2 ·             | 2               | 1               | 7               |
| 20        | A.M (Computer)                   | . 17 | 0             | 2               | 2               | 2               | 1               | 7               |
| 21        | A.M (Transport/ Mechnical)       | 17   | 0             | 1               | 0               | 0               | 0               | 1               |
| 22        | A.M (CISA)                       | 17   | 0             | 1               | 0               | 0               | 0               | 1               |
| 23        | AM (Finance)                     | 17   | 2             | 0               | 0               | 0               | 0               | 2               |
| 24        | A.M (Corporate Accounts)         | 17   | 0             | 3               | 2               | 2               | 2               | 9               |
| 25        | A.M (Demand Forecasting)         | 17   | 1             | 0.              | 0               | 0               | 0               | 1               |
| 26        | A.M (Civil)                      | 17   | 0 .           | 2               | 1               | 0               | 0               | 3               |
| 27        | Assistant GIS Specialist         | 17   | 0             | 1               | 0               | 0               | 0               | 1               |

# DIIP 10- Staffing Plan aligned with Investment Plan
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Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

| Sr.<br>Nó | Title                                   | BPS | Total<br>Nos. | F.Y.<br>2020-21 | F.Y.<br>2021-22 | F.Y.<br>2022-23 | F.Y.<br>2023-24 | F.Y.<br>-2024-25 |  |  |  |
|-----------|-----------------------------------------|-----|---------------|-----------------|-----------------|-----------------|-----------------|------------------|--|--|--|
| 28        | A.M (Data Base & Networks)              | 17  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 29        | A.M (MDC & MDM)                         | 17  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 30        | A.M (Field Operations / CIS<br>Support) | 17  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 31        | A.M (SAP) HCM                           | 17  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 32        | A.M (SAP) FICO                          | 17  | · 0           | 1               | 0               | 0               | 0               | · 1              |  |  |  |
| 33        | A.M (SAP) MM                            | 17  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 34        | A.M (Microsoft Administrator)           | 17  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 35        | A.M (VM Administrator)                  | 17  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 36        | A.M (Linux Administrator)               | 17  | . 0           | 1               | 0               | 0               | 0               | 1.               |  |  |  |
| 37        | A.M (Network Administrator)             | 17  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 38        | A.M (Network Administrator<br>(Core)    | 17  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 39        | A.M (Chemcial) under TRW                | 17  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 40        | A.M (Social Impact)                     | 17  | · 0           | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 41        | A.M (Environment)                       | 17  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 42        | Steno Grade-I/Steno-I/ APS              | 16  | 0             | 3               | 3               | 3               | 3               | 12               |  |  |  |
| 43        | IT Technician (System)                  | 15  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 44        | IT Technician (Networks)                | 15  | 0             | 1               | 0               | 0               | 0               | 1                |  |  |  |
| 45        | ERP Users                               | 15  | 0             | 17              | 0               | 0               | 0               | 17               |  |  |  |
| 46        | Data Coder                              | 15  | 0             | 20              | 15              | 12              | 10              | 57               |  |  |  |
| 47        | Data Entry Operator/DEO                 | 15  | 0             | 20              | 15              | 15              | 13              | 63               |  |  |  |
| 48        | Office Assistant/Head Clerk             | 15  | 5             | 5 .             | 5               | 5               | 5               | 25               |  |  |  |
| 49        | Audit Assistant                         | 15  | 3             | 10              | 10              | 10              | 9               | 42               |  |  |  |
| 50        | Accounts Assistant                      | 15  | 5             | 10              | . 7             | 5               | 5               | 32               |  |  |  |
| -51       | Commercial Assistant (C/A)              | 15  | 5             | 15              | 15              | 8               | 8               | 51               |  |  |  |
| 52        | LS-I (Line Supptt-I)                    | 15  | 8             | 8               | 5               | 5               | 2               | 28               |  |  |  |
| 53        | SSO-I                                   | 15  | 0             | 25              | 25              | 20              | 20              | 90               |  |  |  |
| 54        | Test Inspector (GSO/ P&I)               | 15  | 0             | 2               | 2               | 1               | 1° × .          | 6                |  |  |  |
| 55        | Sr. Store Keeper                        | 15  | 0             | -2              | 2               | .2              | 2               | 8                |  |  |  |
| 56        | Foreman                                 | 15  | 0             | 5               | 3               | 3               | 3               | 14               |  |  |  |
| 57        | Security Inspector                      | 15  | 0             | 2               | 1               | 0               | 2               | 5                |  |  |  |

| Distribution Company | Integrated Investment Plan ( | (DIIP) / Business Plan - MEPCC |
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| Sr.<br>No | Tide.                        | BPS              | . Total<br>Nos. | F.Y.<br>2020-21 | F.Y.<br>2021-22 | F.Y.<br>2022-23 | F.Y.<br>2023-24 | F.Y.<br>2024-25 |
|-----------|------------------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 58        | Steno Grade-II               | 14               | 0               | 4               | 3               | 3               | 3               | 13              |
| 59        | Asstt. Foreman               | 14               | 0               | 25              | : 20            | 15              | 10              | 70              |
| 60        | Jr. Store Keeper             | 14               | 0               | 10              | 5               | 5               | 2               | 22              |
| 61        | Lab Assistant/Test Assistant | 14               | 0               | 10              | 6               | 5               | 5               | 26              |
| 62        | LS-II (Line Supptt-II)       | 14               | 8               | 30              | 30              | 30              | 30              | 128             |
| 63        | SSO-II                       | 14               | 8               | 5               | 5               | 5               | 5               | 28 *            |
| 64        | Sub Engineer Civil           | 14               | 3               | 1               | 0               | 0               | 0               | 4               |
| 65        | Asstt. Draftsman             | 13               | 0               | 15              | 10              | 10              | 8               | 43              |
| 66        | Cable Jointer                | 13               | 0               | 3               | 0               | 0               | 0               | 3               |
| 67        | Imam Masjid                  | 12               | 0               | 1               | 0               | 0               | 0               | 2               |
| 68        | Graphic Designer             | 11               | 0               | 1               | 0               | 0               | 0               | Ý               |
| 69        | Care Taker                   | 11               | 0               | 3               | 0               | 0               | 0               | 3               |
| 70        | MS-I                         | 11               | 0               | 7               | 7               | 7               | 7               | 28              |
| 71        | Relay Machine                | 11               | 0               | 1 ·             | 0               | 0               | 0               | 1               |
| .72       | Asstt. Digitizer             | 11               | 0               | 0               | 0               | 3.              | 2               | 5               |
| 73        | Fitter-I                     | 11               | 0               | 10              | 10              | 10              | 5               | 35              |
| 74        | Jr. Clerk/LDC                | 9                | 15              | 100             | 80              | 70              | 80              | 345             |
| 75        | Meter Reader                 | 9                | 4               | 120             | 100             | 100             | 100             | 424             |
| 76        | Telephone Technician         | . 9              | 0               | 1               | 0               | 0               | 0               | 1               |
| 77        | Surveyor                     | <sup>2</sup> 9 % | 0               | 3               | 3               | 3               | 3               | 12              |
| 78        | Fitter-II                    | 9                | 0               | 10              | 10              | 5               | 5               | 30              |
| 79        | Tracer                       | 9                | 0               | 10              | 10              | 10              | 10              | 40              |
| 80        | S.S.A                        | 8                | 0               | 30              | 20              | 10              | 10              |                 |
| 81        | Driver (LTV)                 | 8                | 0               | 80              | 60              | 60              | 60              | 260             |
| 82        | Security Sargent             | 8                | 0               | 2               | 0               | 0               | 1               | 3               |
| 83        | Welder                       | 7                | 0               | 3               | 3               | 2               | 2               | 10              |
| 84        | Helper                       | 7                | 0               | 45              | 45              | 45              | 45              | 180             |
| 85        | Electrician-II               | 7                | 0               | 5               | 3               | 3               | 3               | 14              |
| 86        | Carpenter                    | - 7              | 0               | 2               | 0               | 0               | 0               | 2               |
| 87        | A.S.S.A                      | 6                | 4               | 50              | 50              | 50              | 50              | 204             |
| 88        | Security Guard               | 6                | 0               | 800             | 300             | 129             | 100             | 1329            |
| 89        | Assistant Lineman (ALM)      | 5                | 840             | 300             | 300             | 200             | 100             | 1740            |
| 90        | Tyre Shop Operator           | 5                | 0               | 2               | 0               | 0               | 0               | 2               |
| 91        | Moazzan Khadim Masjid        | 5                | 0               | 1               | 0               | 0               | 0               | 1               |

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## Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

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|-----|-----------------------------------------------------------------------------------------------------------------|-----|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|--|--|
| Sf. | Tide                                                                                                            | BPS | Total<br>Nos. | F.Y.<br>2020-21 | F.Y.<br>2021-22 | F.Y.<br>2022-23 | F.Y.<br>2023-24 | F.Y.<br>2024-25 |  |  |  |  |
| 92  | Receptionist                                                                                                    | 5   | 0             | 1               | - 1             | 1               | 1               | 4               |  |  |  |  |
| 93  | Trainer                                                                                                         | 5   | 0             | 0               | 0               | 2               | 0               | 2               |  |  |  |  |
| 94  | Auto Electrician                                                                                                | 5   | 0             | 2               | 0               | 0               | 0               | 2               |  |  |  |  |
| 95  | Plumber                                                                                                         | 5   | 0             | 2               | 0               | 0               | 0               | · 2             |  |  |  |  |
| 96  | Tube well operator                                                                                              | 5   | 0             | 6               | 5               | . 4             | 4               | 19              |  |  |  |  |
| 97  | Work Mistery                                                                                                    | 5   | 0             | 1               | . 0 .           | · 0             | 0               | 1               |  |  |  |  |
| 98  | Machine Attendant                                                                                               | 5   | 0             | 2               | 1               | . 1             | 1               | 5               |  |  |  |  |
| -99 | Cook                                                                                                            | 4   | 0_            | 4               | 4               | 4               | 3               | 15              |  |  |  |  |
| 100 | PPC Operator                                                                                                    | 4   | 0             | 0               | 2               | 2               | 0               | 4               |  |  |  |  |
| 101 | Washing Helper                                                                                                  | 3   | 0             | 0               | 2               | 0               | 0               | 2               |  |  |  |  |
| 102 | Store Helper                                                                                                    | 3   | 4             | 15              | 15              | 15              | 15              | 64              |  |  |  |  |
| 103 | Truck Cleaner/Lory Cleaner                                                                                      | 2   | 0             | 20              | 15              | 15              | 15              | 65              |  |  |  |  |
| 104 | Waiter / Bearer                                                                                                 | 2   | 0 .           | 0               | 5               | 5               | 5               | 15              |  |  |  |  |
| 105 | Daftri                                                                                                          | 2   | 0             | 5               | 5               | 5               | 5               | 20              |  |  |  |  |
| 106 | Mali                                                                                                            | 1   | 4             | 5               | 5               | 5               | 5               | 24              |  |  |  |  |
| 107 | Naib Qasid                                                                                                      | 1   | 15            | 40              | 40              | 40              | 40              | 175             |  |  |  |  |
| 108 | Sanitary Worker/Sweeper                                                                                         | . 1 | 4             | 100             | 100             | 90              | 90              | 384             |  |  |  |  |
|     | TOTAL STAFF                                                                                                     |     | 949           | ,2146           | 1429            | 1095            | 947             | 6566            |  |  |  |  |

### iv. Communications Improvement Plan

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This plan covers the communications improvement activities including but not limited to improving the internal communication amongst employees and external communication with customers to improve image of the company etc. Under this section scope of work is provided to be done in each of the five years under this business plan.

MEPCO Public Relations Department is doing well in promotion of Company's activities for Public awareness. Department is using modern tools of communication like Facebook, Twitter and Whatsapp for fast & effective dissemination of company's message to target audience. Publication of its monthly magazine is effective tool to deliver its activities to lower formations, Ministry and other important departments. MEPCO has revised the yardstick of Public Relations Department and after recruitment of proposed staff further activities will be started for more comprehensive and effective P.R activities.

The Communications Improvement Plan (CIP) thus, offers a holistic approach because it not only emphasizes the importance of public awareness and image building initiatives for the DISCO but also the internal communication.

This plan identified some low cost interventions that would transform the way MEPCO operate their PR department. Frequent consumer awareness campaigns and regular interaction with consumers are few of the highly recommended activities targeting educated and well-informed consumers who are bound to play their role in energy conservation and spread positive messages. In addition, MEPCO will allocate a clearly defined budget and resources for consumer awareness activities. The CIP is an optimal fusion of all such activities that would be implemented through the course of five years by MEPCO to take its communications and outreach further.

Through the initiatives indicated, the CIP aims to improve MEPCO's branding with recognition among local communities and consumers and improved understanding among the young generation regarding their role in energy conservation along with improved corporate communication and increase in the usage of email and telephonic communication amongst MEPCO's staff.

All these efforts will create a synergized effect of improving the communications function of the DISCO and making it a corporate entity at par with utilities worldwide. Therefore, based the maximum band for the buck, these projects have been chosen.

#### A. Internal Communication:

#### Mail Servers:

Before MEPCO could take the initiative to improve communication with its external stakeholder such as consumers and the community as a whole, it must ensure that it has achieved the optimum level required in the internal communication among staff. To achieve this objective, MEPCO should acquire the basis infrastructure that would help the staff to have affective communication among them. The modes of communication that are needed to be strengthened by MEPCO as an organization are electronic communication via email and, telephonic communication over the cell phones.

In order to provide instant access to the information required for the spontaneous decision making and problem solving, MEPCO employees in the officer cadre need to have in their possession, at 国家的现在分词

#### Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

least an email address to communicate within the boundaries of MEPCO and a cell phone enabling them to relay their communication outside the premises of their offices. Therefore a mail server is suggested to be deployed within the organization. Scanners will also be installed to ease the email functionality. This will be done right after the communication protocols have been set, user trainings have been imparted and procedures have been finalized; all of which would happen in the first year of Business Plan implementation. In addition, cell phones will also be provided to the officers serving the dual purpose of not only making phone calls but also checking their emails.

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#### **Annual Employee Recognition Event:**

It is the duty of an organization to appreciate its employees because as a matter of fact, an organization is in existence only because of its employees. Therefore, MEPCO will organize an annual function to celebrate its successes and achievement in the last year as well as to recognize the employees that have given MEPCO the reasons for celebration through their dedication and hard work. This will not only motivate the employees but will consequently result in creating harmony and mutual understanding among them.

These interventions will ensure that MEPCO establish an effective internal communication setup required to run the organization and its operations, in a more efficient manner.

## B. Public Communication & Outreach Activities:

MEPCO's Public Relations (PR) Departments comprise one PR officer and two clerical staff who dedicate a good portion of their time to issuing rebuttals to inaccurate media reports. The concept of image building and consumer awareness needs improvement. Therefore this plan which actually comprises of a complete portfolio in the realm of Public Communication and Outreach, helping put forward an improved brand image of MEPCO, better customer services and better informed customers through a series of outreach campaigns.

#### 1. Mass Media Campaigns

The Public Relations and Customer Services Departments of MEPCO will design localized campaigns to target consumers on both energy conservation and the timely payments of bills. These campaigns will help MEPCO in its image promotion as a well-run and progressive power distribution company. MEPCO staff will be given an opportunity to talk to consumers through radio, TV and newspapers to educate consumers regarding the distribution business of MEPCO.

In the long run, these campaigns will result in an improved image of MEPCO as a dynamic and customer-friendly entity through external communications that will help to smoothly implement consumer awareness campaigns and will empower the PR Department to deliver assertive communications and outreach on behalf of MEPCO.

#### 2. Public Outreach & Awareness Programs

Consumer outreach activities will help build a relationship between MEPCO and its consumers. Campaigns targeted at schools and universities, and industries, traders and farmers will be planned in close coordination with the relevant departments of MEPCO.

A variety of interventions at schools and colleges will be held including energy conservation seminars, lectures on MEPCO's role as a DISCO, debating, essay writing and painting competitions. These will help in 'the image promotion of MEPCO among school- / college-going students. A

range of consumer awareness material will be disseminated to improve the knowledge of students on energy conservation and efficiency at both homes and schools.

Industries are important consumers of MEPCO therefore targeting industrialists, through seminars at the Chamber of Commerce, will spread energy conservation awareness and the effectiveness of energy audits. Speakers from MEPCO will be arranged to speak with industrialists on selected topics e.g. energy conservation, better relationships between MEPCO and industries and the need for strengthening cooperation to the mutual benefit of both.

Similarly meetings will be organized with Press Club, to gain its support to spread the message to the masses to adopt energy conservation measures and place MEPCO's conservation material in prominent locations.

Farmers, in addition to being important consumers of MEPCO, can play a significant role in the conservation of energy through the use of efficient tube-wells and legally managing their connections. Improved relationships between farmers and MEPCO are the key to discouraging theft and soliciting timely bill payments.

#### 3. Design and printing of Customer Awareness Material

MEPCO's corporate image requires steps to be taken for its improvement and to promotion as a DISCO rather than an electricity generation and supply control entity. A localized media campaign will be designed and executed to create awareness among consumers regarding MEPCO and energy conservation. Material will include news articles, brochures and leaflets, billboards, pamphlets, local cable advertisements and documentaries. A new corporate tagline (slogan) along with business cards will help introduce a uniform public face of the company at the professional level and will be proposed to MEPCO management.

As part of the overall branding campaign, MEPCO's Customer Services Centers will be branded through the strategic placement of standees, banners and other awareness material. Brochures, leaflets and handbooks will be developed for employee safety measures and workplace ethics that will help guide Customer Service Center employees. The proposed action plan includes designing content that educates consumers about MEPCO's role as a DISCO and the different energy conservation measures they can adopt.

#### 4. Student Energy Conservation Programs

Another important intervention is the energy efficiency and anti-theft campaigns consisting of mass media and Informational and Educational Communication (IEC) materials for dissemination to the public as well as internal communications. These are grassroots-level promotions that target awareness at community level or through schoolchildren and college/university students with action-oriented messages, where benefits of proposed actions are quantitative and clear to the audience. For instance, replacing an incandescent light bulb with an energy saver will help reduce consumption by 50%, resulting in money saving and increased availability of electricity.

#### 5. Radio Talk shows

Talk shows aired through radio are one of the cost effective ways to directly reach the consumers and to tame their minds by talking about the positive developments being carried out by MEPCO and showing the positive side of the picture. These talk shows also provide an opportunity to the consumers to take part in the ongoing discussions with the senior officials of MEPCO, turn attention to their complaints, or provide their feedback. MEPCO will launch two seasons of the radio talk shows on the leading FM radio channels, one series of 13 episodes will be aired for a quarter in peak summer season focusing on energy conservation, while other series will commence in peak winter season with an emphasis on the anti-theft.

#### 6. Monthly News Letter

Any progressive organization would like to update the society in general and its employees and consumers in particular, in a progressive manner, about the achievement it is making throughout the course of time. Newsletter is an effective matter to get this done. MEPCO will publish monthly newsletter that will not only contain the updates about the organization but will also include news, events, articles, consumer feedback and other topics of interest as it is being done at present.

#### **DIIP 11 - Communications Improvement Plan**

Rather than presenting the scope in a table it is narrated and explained below:

#### A. Internal Communications

For enhancing email internal communication via email, the company will deploy physical IT infrastructure consisting of one Mail Server and associated paraphernalia. In addition, scanners will be provided in all the distinguished offices of MEPCO to facilitate email communication. Further, to facilitate swift communication amongst the officers, smart phones will be designated for all the officers enabling them not only to make calls but also to check and respond to the emails on the go. Apart from investments in the communications technology, MEPCO will invest in the human aspect as well by arranging at least one Employee Recognition Event each year. It will be a formal event attended by all the employees of MEPCO in which the high-achievers will be acknowledged for their services and successes.

### **B.** External Communications

Public Outreach Office of MEPCO will be strengthened by provision of a Toyota HI ace for rapid outdoor mobility of staff for performing outreach activities in the field.

At least four mass media campaigns in a year will be arranged within the territory of MEPCO, two campaigns will be based on the theme of anti-theft while two will focus energy conservation. These will include publishing advertisement in leading local newspapers, and relaying the message using the electronic media: TV, Cable and FM Radio. In addition, billboards, pole streamers and similar mediums will also be utilized to spread the message among the consumers.

Apart from these campaigns, public outreach programs and awareness sessions will be arranged at university, community and district levels. It is anticipated that at least four sessions per year at each level will be organized to reciprocate the message.

Printed material is an effective way to penetrate within the masses therefore, consumer awareness material will be designed and printed which includes but not limited to brochures, pamphlets, leaflets, flyers etc. In addition, a newsletter will be also published each month as it is being done at present.

Please refer Annexure-17 for details on scope and cost.

#### v. Linemen Training, Tools and Equipment

1- MEPCO H.S.E department is now being operated through Manager H.S.E by creating position of Manager H.S.E and also created Nine positions of A.Ms H.S.E at each Operation Circle. Further as future plans, 4 more A.Ms and 26 Safety Inspectors positions are required to be created as one A.M and 2 Safety Inspectors in each 13 Circles of Company who will effectively

oversee the implementation of Safety S.O.Ps to eliminate accidents and injuries of MEPCO. Employees.

- 2- MEPCO & LESCO jointly prepared H.S.E Manual which is submitted to NEPRA for approval.
- 3- Conduction of job specific training at RTC and CTCs to employees of all cadres.
- 4- Conduction of H.S.E awareness training at RTC & CTCs for staff and officers.
- 5- Conduction of Safety Seminars at each Division on monthly basis.
- 6- Conduction of Safety Committee Meetings at Sub Division, Division, Circle and Regional levels on monthly basis.
- 7- Hazard identification and its removal by field formation.
- 8- Conduction of Management H.S.E walk-through / site tours.
- 9- Provision of First Aid facilities.
- 10-Conduction of PPE Parade at Sub Divisional level on monthly basis.
- 11-Provision of very good quality T&P and PPE to line staff.Nomination of Inspectors for National and International inspections of material for quality assurance.
- 12-On daily basis, SEs (OP) will provide abstract of HT line and Transformer Sub Stations complaints attended with PTW / without PTW and action taken against safety violators.
- 13-Conduction of H.S.E Audit of each Sub Division on quarterly basis by H.S.E Staff.

14-Proper implementation on permit to work system through PDC.

Currently MEPCO is working on meeting its demand for Transport, Tools and Personal Protective Equipment for Lineman and procurement of Bucket Mounted Vehicles and one educational Bucket Mounted Vehicle is reached in Regional Store.

In this business plan MEPCO has incorporated such needs in lineman safety with extensive homework and calculations. In this plan, 231 Bucket Mounted Trucks for Transport and mobility with safety of lineman, Linemen T&P and PPEs have been catered with to make MEPCO lineman safe, effective and efficient.

This plan under safety when executed will save MEPCO from huge losses due to poor quality of work and rampant accidents of experienced lineman caused in the shape of heavy financial losses and human loss and it will also improve response to complaint time resulted in improved customer services.

Please refer Annexure-18 for details on scope and cost.

## Section -VI Costs and Financing Plan

A. Capital Expenditure and additional Operating Costs for Expansion and Rehabilitation (this section also includes the total cost of DIIP):

This section includes:

- Summary of Annual Capital and Operational Expenditure Costs for Best Case
- Summary of Annual Capital and Operational Expenditure Costs for Optimally Achievable Case
- Detail Costing

Summary of Annual Capital and Operational Expenditure Costs for Best Case

DIIP 12 - Summary of Best Case Annual Capital Expenditure and Operational Expenditure Costs

| Total (Support + Co                          | ore) Dii | P-Busin | ess Plai | n- MEP | CO - Be | est Case     |
|----------------------------------------------|----------|---------|----------|--------|---------|--------------|
|                                              |          |         |          |        |         | In Million   |
| Grand Total Capex Plans                      | FY21     | FY22    | FY23     | FY24   | FY25    | 5-Year Total |
|                                              | 17,127   | 19,669  | 21,266   | 19,830 | 19,028  | 96,921       |
| Total Opex Plans                             | 2,461    | 3,146   | 3,359    | 3,503  | 3,734   | 16,202       |
| Grand Total*<br>( Capex Plans + Opex Plans ) | 19,588   | 22,815  | 24,625   | 23,333 | 22,762  | 113.123      |
|                                              | ,        |         |          |        |         |              |

\*Excluding Cost Deposit Expenditure

| Tota | l Core Business                   | - Trans<br>MEPC | mission<br>O Be | and Di<br>st Case | istribul | ion Pla | ans DIIP-                         |
|------|-----------------------------------|-----------------|-----------------|-------------------|----------|---------|-----------------------------------|
|      | Сарех                             | FY21            | FY22            | FY23              | FY24     | FY25    | In Million<br>Rs.<br>5-Year Total |
| 1    | Distribution<br>without Deposit   | 6,304           | 7,795           | 8,687             | 9,445    | 9,727   | 41,958                            |
| 2    | Transmission                      | 8,991           | 7,680           | 7,120             | 5,892    | 5,545   | 35,228                            |
| 3    | Linemen Safety                    | 409             | 508             | 624               | 646      | 791     | 2,978                             |
| 4    | GIS Mapping                       | 1               | 27              | 19                | 3        | 3.      | 52                                |
|      | Total                             | 15,705          | 16,009          | 16,450            | 15,986   | 16,066  | 80,216                            |
| 1    | Distribution with<br>Deposit Cost | 2,070           | 3,452           | 3,769             | 2,760    | 2,828   | 14,879                            |
|      | Total                             | 2,070           | 3,452           | 3,769             | 2,760    | 2,828   | 14,879                            |
|      | Opex                              | FY21            | FY22            | FY23              | FY24     | FY25    | 5-Year Total                      |
| 1    | Distribution                      | 252             | 312             | 347               | 378      | 389     | 1,678                             |
| 2    | Transmission                      | 360             | 307             | 285               | 236      | 222     | 1,409                             |
| 3    | Linemen Safety                    | 18              | 42              | 74                | 105      | 146     | 385                               |
|      | Total                             | 630             | 661             | 706               | 719      | 757     | 3,472                             |
|      | Total Summer                      | Đ               |                 |                   |          | MEDCA   |                                   |
|      | TOGI DU 9901                      | u pusiii        | 699 F D [[]     | n Dest            | casej-   |         | In Million                        |

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|                           | •     |       |       |       |       | Rs.          |
|---------------------------|-------|-------|-------|-------|-------|--------------|
| Total Capex Support Plans | FY21  | FY22  | FY23  | FY24  | FY25  | 5-Year Total |
|                           | 1,422 | 3,660 | 4,816 | 3,844 | 2,962 | 16,704       |
| Total Opex Support Plans  | 1,831 | 2,485 | 2,653 | 2,784 | 2,977 | 12,730       |

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Summary of Annual Capital and Operational Expenditure Costs for Achievable Case

DIIP 13 - Summary of Achievable Annual Capital Expenditure and Operational Expenditure Costs

| Total Support             | Busine | ss - Dll | P- MEP | CO (Ac | hievak | ole)                                        |
|---------------------------|--------|----------|--------|--------|--------|---------------------------------------------|
| Total Capex Support Plans | FY21   | FY22     | FY23   | FY24   | FY25   | In Million<br>Rs.<br><b>5-Year</b><br>Total |
|                           | 1,422  | 3,660    | 4,816  | 3,844  | 2,962  | 16,704                                      |
| Total Opex Support Plans  | 1,831  | 2,485    | 2,653  | 2,784  | 2,977  | 12,730                                      |

# Total Core Business - Transmission and Distribution Plans DIIP-MEPCO ---- Achievable

|   |                                   |       | • • •  |        |        |        | In Million<br>Bs |
|---|-----------------------------------|-------|--------|--------|--------|--------|------------------|
|   | Capex                             | FY21  | FY22   | FY23   | FY24   | FY25   | 5-Year<br>Total  |
| 1 | Distribution<br>without Deposit   | 4576  | 5543   | 5793   | 6067   | 6337   | 28,316           |
| 2 | Transmission                      | 2,370 | 4,372  | 4,106  | 4,453  | 4,529  | 19,830           |
| 3 | Linemen Safety                    | 409   | 508    | 624    | 646    | 791    | 2,978            |
| 4 | GIS Mapping                       | 1     | 27     | 19     | 3      | 3      | 52               |
|   | Total                             | 7,357 | 10,449 | 10,542 | 11,170 | 11,659 | 51,176           |
|   |                                   |       |        |        |        |        |                  |
| 1 | Distribution with<br>Deposit Cost | 2,070 | 3,452  | 3,769  | 2,760  | 2,828  | 14,879           |
|   | Total                             | 2,070 | 3,452  | 3,769  | 2,760  | 2,828  | 14,879           |

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|         | Орех                                 | FY21      | FY22     | FY23      | FY24   | FY25    | 5-Year<br>Total            |
|---------|--------------------------------------|-----------|----------|-----------|--------|---------|----------------------------|
| 1       | Distribution                         | 183       | 222      | 232       | 243    | 253     | 1,133                      |
| 2       | Transmission                         | 95        | 175      | · 164     | 178    | 181 ·   | 793                        |
| 3       | Linemen Safety                       | 18        | 42       | 74        | 105    | 146     | 385                        |
|         | Total                                | 296       | 439      | 470       | 526    | 581     | 2,311                      |
| T       | otal (Support + Co                   | ore) Dill | D-Busine | ess Plan- | MEPCO  | - Achie | vable<br>In Million<br>Rs. |
|         | Total Capex Plans                    | FY21      | FY22     | FY23      | FY24   | FY25    | 5-Year<br>Total            |
|         |                                      | 8,779     | 14,109   | 15,358    | 15,014 | 14,622  | 67,881                     |
|         | Total Opex Plans                     | 2,127     | 2,923    | 3,123     | 3,310  | 3,558   | 15,040                     |
| ( Capex | Grand Total*<br>Plans + Opex Plans ) | 10,905    | 17,033   | 18,480    | 18,324 | 18,179  | 82,921                     |

\*Excluding Cost Deposit Expenditure.

## **Details of Costing**

The detailed costs of Transmission, Distribution and functional plans is provided hereunder, with more details.

# STG- Expansion and Rehabilitation (Best Case) a. <u>Grid Stations</u>

|                               |         |         |         | .*      |         | Rs. In Million       |
|-------------------------------|---------|---------|---------|---------|---------|----------------------|
|                               |         | ·       |         | YEAR    |         |                      |
| Description                   | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | TOTAL COST<br>(MRs.) |
| New Grids                     | 1830    | 2486    | 2232    | 2073    | 1890    | 10511                |
| Conversions                   | 126     | 0       | 255     | 0       | 0       | 381                  |
| Extensions TF                 | 756     | 922     | 614     | 727     | 746     | 3765                 |
| Augmentations                 | 900     | 1054    | 1123    | 1196    | 1389    | 5662                 |
| T/Lines                       | 4933    | 3065    | 2743    | 1806    | 1514    | 14061                |
| 132kV Caps                    | 176     | 102     | 124     | 87      | 0       | 489                  |
| Conversion of ISO<br>Bay      | 194     | 0       | 0       | 0       | 0       | 194                  |
| Ext: of 11KV<br>Control House | 24.2    | 21.1    | 12.5    | 2.7     | 5.7     | 66                   |
| Twin Bundle                   | 51.7    | 30      | 16      | 0       | 0       | 98                   |
| TOTAL COST                    | 8991    | 7680    | 7120    | 5892    | 5545    | 35227                |

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## DIIP 14 - STG Expansion and Rehabilitation: Grid Stations

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STG- Expansion and Rehabilitation (Achievable Case)
b. <u>Grid Stations</u>

## DIIP 15 - STG Expansion and Rehabilitation: Grid Stations

|               |        | Rs. In Million |        |        |        |                      |  |  |  |  |  |
|---------------|--------|----------------|--------|--------|--------|----------------------|--|--|--|--|--|
|               |        |                |        |        |        |                      |  |  |  |  |  |
| Description   | Year-1 | Year-2         | Year-3 | Year-4 | Year-5 | Total Cost<br>(MRs.) |  |  |  |  |  |
| New Grids     | 308    | 1830           | 1706   | 2232   | 2073   | 8149                 |  |  |  |  |  |
| Conversions   | 178    | 126            | 0      | 255    | 0      | 559                  |  |  |  |  |  |
| Extensions TF | 20.7   | 341            | 559    | 252    | 315    | 1487.7               |  |  |  |  |  |

Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

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| Augmentations                 | 384    | 450    | 575    | 612    | 652    | 2673    |
|-------------------------------|--------|--------|--------|--------|--------|---------|
| T/Lines                       | 1479   | 1286   | 1146   | 1003   | 1404   | 6318    |
| 132kV Caps                    | -      | 69     | 69     | 71     | 82     | 291     |
| Conversion of ISO Bay         | -      | 194 .  | 0      | 0      | . 0    | 194     |
| Ext: of 11KV Control<br>House | -      | 24.2   | 20.7   | 12.5   | 2.7    | 60.1    |
| Twin Bundle                   | -      | 51.7   | 30     | 15.9   | 0      | 97.6    |
| TOTAL COST                    | 2370.4 | 4371.9 | 4105.7 | 4453.4 | 4528.7 | 19830.1 |

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# Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

# Distribution System-Expansion and Rehabilitation (Best Case) DIIP16 - Distribution System Expansion and Rehabilitation (Best Case)

#### Scope of Work for 11 kV and Below Rehabilitation

| А.    |                                          |         | · · · · · | Millio  | n Rs.   |         |        |
|-------|------------------------------------------|---------|-----------|---------|---------|---------|--------|
|       | Rehabilitation of HT Lines               | 2020-21 | 2021-22   | 2022-23 | 2023-24 | 2024-25 | Total  |
| 1     | New HT Lines                             | 1373    | 1895      | 2026    | 2092    | 1895    | 9281   |
| 2     | HT Line Reconductoring                   | 516     | 712       | 761     | 786     | 712     | 3487   |
| 3     | 11KV Capacitors                          | 44      | 60        | 64      | 67      | 60      | 295    |
| 4     | 11KV Panels                              | 151     | 209       | 223     | 230     | 209     | 1022   |
| .5    | Replacement of T/F Earthing              | 4       | 4         | 4       | 4       | 4       | 20     |
| 6     | 11-kv Sectionalizers                     | 90      | 125       | 133     | 137     | 125     | 610    |
| 7     | 11-Kv 500 MCM Cable                      | 34      | 47        | 50      | 52      | 47      | 231    |
|       | Sub Total (1 to 7)                       | 2211    | 3052      | 3262    | 3367    | 3052    | 14945  |
| Scope | of Work for LT Rehabilitation            |         |           |         |         |         |        |
| В.    | LT Lines Rehabilitation                  |         |           |         |         | ·····   |        |
| 8     | New LT Lines                             | 229     | 233       | 236     | 238     | 239     | 1175   |
| 9     | LT Line Reconductoring                   | 154     | 194       | 210     | 221     | 232     | 1012   |
| 10    | New HT Lines (For New T/F Substations)   | 78      | 79        | 80      | 81      | 81      | 399    |
| 11    | Replacement of D-Fittings                | 23      | 23        | 23      | 23      | 23      | 113    |
| 12    | New Transformer Substations              |         |           |         |         |         |        |
| 1     | a. 25 KVA                                | 26      | 27        | 27      | 27      | 27      | 135    |
|       | b. 50 KVA                                | 80      | 81        | 82      | 83      | 83      | 408    |
|       | c. 100 KVA                               | 563     | 573       | 579     | 585     | 588     | 2888   |
|       | d. 200 KVA                               | 176     | 178       | 180     | 182     | 183     | 900    |
|       | Sub Total                                | 844     | 859       | 868     | 878     | 882     | 4331   |
| 13    | Augmentation of Overloaded Transform     | mers    |           |         |         |         |        |
|       | a. 25 KVA                                | 23      | 24        | 26      | 26      | 29      | 128    |
|       | b. 50 KVA                                | 98      | 102       | 108     | 111     | 122     | 541    |
|       | c. 100 KVA                               | 218     | 226       | 241     | 247     | 272     | 1204   |
|       | d. 200 KVA                               | 218     | 226       | 241     | 246     | 272     | 1203   |
|       | e. 200 KVA (Additional)                  | 92      | 96        | 102     | 105     | 116     | 511    |
|       | Sub Total                                | 649     | 673       | 719     | 734     | 811     | 3587   |
| 14    | Replacement of 2-Leg Transformers        |         |           |         |         |         |        |
|       | a. 10 KVA                                | 1       | 1         | 1       | 1       | 1       | 5      |
| 1     | b. 15 KVA                                | 3       | 2         | 2       | 2       | 2       | 11     |
|       | c. 25 KVA                                | 4       | 4         | 3       | 3       | 4       | 19     |
|       | d. 50 KVA                                | 37      | 33        | 29      | 27      | 30      | 157    |
| - And | e. 100 KVA                               | 96      | 85        | 75      | 71      | 77      | 405    |
|       | f. 200 KVA                               | 264     | 234       | 205     | 194     | 211     | 1108   |
|       | Sub Total                                | 406     | 360       | 315     | 299     | 325     | 1705   |
| 15    | Energy Meters (against defective)        |         |           |         |         |         |        |
|       | a. Single Phase                          | 470     | 475       | 479     | 484     | 489     | 2397   |
|       | b. Three Phase                           | 35      | 35        | 36      | 36      | 36      | 178    |
|       | Sub Total                                | 505     | 510       | 515     | 520     | 525     | 2575   |
| 16    | P.G.Connectors                           | 68      | 68        | 68      | 68      | 68      | 340    |
| 1     | Sub Total (8 to 16)                      | 2,956   | 2.998     | 3,034   | 3,061   | 3,187   | 15,236 |
| Total | Cost of Distt. Rehabilitation (1 to 16)  | 5,167   | 6,050     | 6,296   | 6,429   | 6,239   | 30,181 |
| Total | Cost of Distt. Rehabilitation (including |         |           |         |         |         |        |
| S     | tore & installation Charges 20%)         | 6,201   | 7,260     | 7,555   | 7,715   | 7,487   | 36,218 |
| Total | Cost of Distt. Rehabilitation (including |         | 1. 17     |         |         |         |        |
|       | Store, installation Charges(20%),        | 6.90.   | -         |         |         |         |        |
| Conti | ingency Charges (2%), Escalation per     | 6,304   | 7,795     | 8,687   | 9,445   | 9,727   | 41,958 |
|       | annum (6.5%))                            |         |           |         |         |         |        |

# Cost for GIS Mapping and P&E:

| Description              | Unit | Scope of Work |         |         |         |         |       |  |  |  |  |  |
|--------------------------|------|---------------|---------|---------|---------|---------|-------|--|--|--|--|--|
| 2.000p20-                |      | 2018-19       | 2019-20 | 2020-21 | 2021-22 | 2022-23 | Total |  |  |  |  |  |
| 11 KV Feeders<br>Mapping | MRs. | 0.34          | 0.31    | 0.29    | 0.28    | 0.24    | 1.46  |  |  |  |  |  |
| LT Circuits<br>Mapping   | MRs. | 0.58          | 2.69    | 2.74    | 2.74    | 2.74    | 11.4  |  |  |  |  |  |
| Tools<br>Required(HT+LT) | MRs. | -             | 23.52   | 15.68   | -       | -       | 39.20 |  |  |  |  |  |
| TOTAL                    | MRs. | 0.92          | 26.51   | 18.70   | 3.02    | 2.98    | 52.13 |  |  |  |  |  |

Distribution System- Expansion and Rehabilitation (Optimally Achievable Case)

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Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

# DIIP17 - Distribution System Expansion and Rehabilitation (Optimally Achievable Case)

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| A.    |                                          |         |         | Millio  | n Rs.         |         |                                                                                                                 |
|-------|------------------------------------------|---------|---------|---------|---------------|---------|-----------------------------------------------------------------------------------------------------------------|
|       | Rehabilitation of HT Lines               | 2020-21 | 2021-22 | 2022-23 | 2023-24       | 2024-25 | Total                                                                                                           |
| 1     | New HT Lines                             | 980     | 1072    | 1059    | 1190          | 1216    | 5516                                                                                                            |
| 2     | HT Line Reconductoring                   | 368     | 403     | 398     | 447           | 457     | 2072                                                                                                            |
| 3     | 11KV Capacitors                          | 31      | 34      | 34      | 38            | 39      | 175                                                                                                             |
| 4     | 11KV Panels                              | 108     | 118     | 117     | 131           | 134     | 608                                                                                                             |
| 5     | Replacement of T/F Earthing              | . 4     | 4       | 4.      | 4             | 4       | 20                                                                                                              |
| 6     | 11-kv Sectionalizers                     | 64      | 70      | 70      | 78            | 80      | 363                                                                                                             |
| 7     | 11-Kv 500 MCM Cable                      | 24      | 27      | 26      | 30            | 30      | 137                                                                                                             |
|       | Sub Total (1 to 7)                       | 1581    | 1728    | 1707    | 1917          | 1959    | 8891                                                                                                            |
| Scope | of Work for LT Rehabilitation            |         |         | •       |               |         | •                                                                                                               |
| B.    | LT Lines Rehabilitation                  |         |         |         |               |         | ···                                                                                                             |
| 8     | New LT Lines                             | 152     | 174     | 178     | 180           | 193     | 877                                                                                                             |
| 9     | LT Line Reconductoring                   | 103     | 137     | 148     | 156           | 168     | 711                                                                                                             |
| 10    | New HT Lines (For New T/F Substations)   | 52      | 59      | 60      | 61            | 66      | 297                                                                                                             |
| 11    | Replacement of D-Fittings                | 23      | 23      | 23      | 23            | 23      | 113                                                                                                             |
| 12    | New Transformer Substations              |         |         |         |               |         |                                                                                                                 |
|       | a. 25 KVA                                | 17      | 20      | 20      | 21            | 22      | 100                                                                                                             |
|       | b. 50 KVA                                | 53      | 60      | 62      | 63            | 67      | 305                                                                                                             |
|       | c. 100 KVA                               | 374     | 427     | 437     | 443           | 474     | 2155                                                                                                            |
|       | d. 200 KVA                               | 117     | 133     | 136     | 138           | 148     | 672                                                                                                             |
| ŀ     | Sub Total                                | 561     | 640     | 655     | 664           | 712     | 3231                                                                                                            |
| 13    | Augmentation of Overloaded Transform     | mers    |         |         |               |         |                                                                                                                 |
|       | a. 25 KVA                                | 11      | 22      | 22      | 14            | 9       | 78                                                                                                              |
|       | b. 50 KVA                                | 45      | 93      | 94      | 60            | 37      | 329                                                                                                             |
|       | c. 100 KVA                               | 101     | 207     | 209     | 134           | 82      | 733                                                                                                             |
|       | d. 200 KVA                               | 101     | 207     | 209     | 134           | 82      | 733                                                                                                             |
|       | e. 200 KVA (Additional)                  | 43      | 88      | 89      | 57            | 35      | 311                                                                                                             |
|       | Sub Total                                | 302     | 616     | 623     | 400           | 244     | 2185                                                                                                            |
| 14    | Replacement of 2-Leg Transformers        |         |         |         |               |         |                                                                                                                 |
|       | a. 10 KVA                                | 1       | 1       | 1       | 1             | 1       | 5                                                                                                               |
|       | b. 15 KVA                                | 3       | 2 ·     | 2       | 2             | 2       | 11                                                                                                              |
| •     | c. 25 KVA                                | 4       | 4       | 3       | 3             | 4       | 19                                                                                                              |
|       | d. 50 KVA                                | 37      | 33      | 29      | 27            | 30      | 157                                                                                                             |
|       | e. 100 KVA                               | 96      | 85      | 75      | 71            | 77      | 405                                                                                                             |
|       | f. 200 KVA                               | 264     | 234     | 205     | 194           | 211     | 1108                                                                                                            |
|       | Sub Total                                | 406     | 360     | 315     | 299           | 325     | 1705                                                                                                            |
| 15    | Energy Meters (against defective)        |         | ·       |         |               |         |                                                                                                                 |
|       | a. Single Phase                          | 470     | 475     | 479     | 484           | 489     | 2397                                                                                                            |
|       | b. Three Phase                           | 35      | 35      | 36      | 36            | 36      | 178                                                                                                             |
|       | Sub Total                                | 505     | 510     | 515     | 520           | 525     | 2575                                                                                                            |
| .16   | P.G.Connectors                           | 68      | 68      | 68      | 68            | 68      | 340                                                                                                             |
|       | Sub Total (8 to 16)                      | 2,170   | 2.586   | 2.584   | 2 371         | 2 323   | 12.034                                                                                                          |
| Total | Cost of Distt. Rehabilitation (1 to 16)  | 3,751   | 4,313   | 4,291   | 4,288         | 4,282   | 20,925                                                                                                          |
| Total | Cost of Distt. Rehabilitation (including | 4 505   |         |         |               |         |                                                                                                                 |
| s     | tore & installation Charges 20%)         | 4,501   | 5,176   | 5,149   | 5,145         | 5,138   | 25,110                                                                                                          |
| Total | Cost of Distt. Rehabilitation (including |         |         |         | · · · · · · · |         |                                                                                                                 |
|       | Store, installation Charges(20%).        |         |         |         |               |         |                                                                                                                 |
| Conti | ingency Charges (2%), Escalation per     | 4,576   | 5,543   | 5,793   | 6,067         | 6,337   | 28,316                                                                                                          |
|       | annum (6.5%))                            |         |         | · .     |               |         | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - |

Scope of Work for 11 kV and Below Rehabilitation

# B. Capital Expenditure and Additional Operating Costs for Other Functional Improvement Plans:

# Summary of Capital and Operational Expenditure Costs

Please note that the Scope and Cost of Functional Plans is same for both the scenarios.

### DIIP18 - Summary of Capital and Operational Expenditure Costs

|            |                           |      |                | Commer      |         | diip-M             | EP.C( |        |       |                                                                                                                                                                                                                                    |         |               |
|------------|---------------------------|------|----------------|-------------|---------|--------------------|-------|--------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------|
|            |                           |      |                |             |         | AL DESIGN ( 20196) | X     |        |       |                                                                                                                                                                                                                                    |         | In Million Rs |
| #          | Capex                     | FY21 |                | FY22        |         | FY23               |       | FY24   |       | FY25                                                                                                                                                                                                                               |         | 5-Year Total  |
| 1.1        | Mobile Phones for<br>MRs. |      | 6              |             | 35      | •                  | 130   |        | 111   | н н<br>н                                                                                                                                                                                                                           | 6       | 289           |
| 1.2        | Data Center               |      |                | 1,4         | 190     |                    | 2,238 |        | 1,724 | <b>1</b>                                                                                                                                                                                                                           | .,322 ′ | 6,774         |
| 1.3        | AMRs and Elec<br>Meters   | 2    | 225            | ана<br>1. ( | 522     |                    | 698   |        | 540   |                                                                                                                                                                                                                                    | -       | 2,085         |
| 1.4        | CSC                       |      | 87             |             | -       |                    | •     |        | -     |                                                                                                                                                                                                                                    | -       | 87            |
| 1.5        | Surveillance              |      | 25             |             | 18      | -                  | 16    |        | 14    |                                                                                                                                                                                                                                    | 14      | 87            |
|            | Total                     |      | 343            | 2,          | 165     |                    | 3,082 |        | 2,389 | 1                                                                                                                                                                                                                                  | ,342    | 9,321         |
|            |                           |      |                |             |         |                    |       |        |       | en de la composition de la composition de la composition de la composition de la composition de la composition<br>La composition de la c |         | In Million Rs |
| <b>#</b> ^ | Opex                      | FY21 |                | FY22        |         | FY23               |       | FY24   |       | FY25                                                                                                                                                                                                                               |         | 5-Year Total  |
|            |                           |      |                |             |         |                    |       |        |       |                                                                                                                                                                                                                                    |         |               |
| 1.1        | Mobile Phones for<br>MRs. |      | 3              |             | 5       |                    | 36    |        | 53    |                                                                                                                                                                                                                                    | 84      | 181           |
| 1.2        | Data Center               |      | 1. 1. t<br>1 t |             | 118     | · · ·              | 252   |        | 212   |                                                                                                                                                                                                                                    | 143     | 725           |
| 1 3        | AMRs and Elec             |      |                |             | • • • • |                    | · · · | 1.<br> |       | _                                                                                                                                                                                                                                  |         |               |
| 1.5        | Meters                    |      |                |             |         |                    |       |        |       |                                                                                                                                                                                                                                    |         |               |
| 1.4        | CSC                       |      | 12             |             | 12      |                    | 12    |        | 13    |                                                                                                                                                                                                                                    | 14      | 63            |
| 1.5        | Surveillance              |      | 4              |             | 7       |                    | 9     |        | 12    |                                                                                                                                                                                                                                    | 14      | 46            |
|            | Total                     |      | 18             |             | 141     |                    | 310   |        | 290   | ан.<br>Алар Ал                                                                                                                                                                                                                     | 255     | 1,014         |

No. 19 Acres

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Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

|      |                                                                         |       |            | e tinge |       |       |                               |
|------|-------------------------------------------------------------------------|-------|------------|---------|-------|-------|-------------------------------|
|      | all <b>er (C.</b><br>Galacia)                                           |       | a firsoner | MIECON  |       |       |                               |
|      | Capex                                                                   | FY21  | FY22       | FY23    | FY24  | FY25  | In Million Rs<br>5-Year Total |
| 2.1  | Improving Working<br>Environment Of<br>offices & training<br>facilities | 699   | 791        | 905     | 1,037 | 1,193 | 4,625                         |
| 2.2  | Improving<br>Transport Facilities                                       | 345   | 669        | 808     | 373   | 377   | 2,573                         |
|      | Total                                                                   | 1,044 | 1,460      | 1,713   | 1,410 | 1,570 | 7,198                         |
|      | Opex                                                                    | FY21  | FY22       | FY23    | FY24  | FY25  | In Million Rs<br>5-Year Total |
| 2.1  | HR Development<br>Training and<br>Capacity Building                     | 79    | 100        | 107     | 110   | 113   | 509                           |
| 2.2  | Improving Working<br>Environment Of<br>offices & Health<br>Facilities   | 1,389 | 1,401      | 1,587   | 1,791 | 2,020 | 8,188                         |
| 2.3  | Improving<br>Transport Facilities                                       | 6     | 45         | 97      | 126   | 159   | 434                           |
|      | Sub-Total-A                                                             | 1,474 | 1,547      | 1,791   | 2,027 | 2,292 | 9,131                         |
| 2.5  | Staffing Opex                                                           | FY21  | FY22       | FY23    | FY24  | FY25  | In Million Rs<br>5-Year Total |
|      | Sub-Total-B                                                             | 310   | 766        | 507     | 420   | 380   | <u>2,383</u><br>2,383         |
| Tota | l Opex HR (A+B)                                                         | 1,784 | 2,313      | 2,298   | 2,447 | 2,672 | 11,514                        |

|     | 199   | S.      | 22   | -   | - E | -6  | 42  | 26  |     | 93 | - 2 |     | -1 | 18 | 32 | 63 - | -  | Æ. | 10  | 28 | gн   | 15 | - 1   | - 1 | īπ,      | с×.  | - 1 | 22    | 10.0  | 20 | (e.) | 32  |
|-----|-------|---------|------|-----|-----|-----|-----|-----|-----|----|-----|-----|----|----|----|------|----|----|-----|----|------|----|-------|-----|----------|------|-----|-------|-------|----|------|-----|
| 59  | -80   | i de la |      | 7:  | 5   | īΥ. |     | . 1 | ~   |    | r   |     | T  | γ. | Ξ. | ٢.   | 11 | -  |     | 16 | ñе   | 1  | 33    | 52  | <b>7</b> | Υ.   | 7.  | 1.    | mg .  | »Т | -    | 123 |
| - 6 | 28/2  | 2.5     | 52.2 | ÷., | ·   |     | 3.2 | 1.1 | 3.2 | 11 |     | 1.1 | 1. | ۲, | 1. | 1    |    | Ξ. | 111 | ÷. |      | x  | 2.1   | 1.4 | 1.0      | 31.3 |     |       | -     | ыa | -    |     |
|     | ALC 1 | N 10    | - C. |     | -   |     |     |     |     |    | 6.0 |     |    |    |    | 100  |    |    | -   |    | 1100 |    | (1. C |     | 2010     |      |     | 11/11 | 10.00 |    | 2.46 |     |

|       | Capex                     | FY21 |    | FY22 | FY              | 23 | FY24   |    | FY25 | omenonese: | In Million Rs<br>5-Year Total |
|-------|---------------------------|------|----|------|-----------------|----|--------|----|------|------------|-------------------------------|
| 3.0-A | Internal<br>Communication |      | 6  | -    | t e est<br>Suit | 11 |        | -  |      | -          | 17                            |
| 3.0-B | External<br>Communication |      | 4  |      |                 | -  | •      | -  |      | -          | 4                             |
|       | Total                     |      | 10 |      |                 | 11 |        | -  |      | -          | 21<br>In Million Rs           |
|       | Opex                      | FY21 |    | FY22 | FY              | 23 | FY24   |    | FY25 |            | 5-Year Total                  |
| 3.0-A | Internal<br>Communication |      | 1  | 1    |                 | 14 |        | 15 |      | 15         | 45                            |
| 3.0-B | External<br>Communication |      | 28 | 29   |                 | 31 | te tra | 33 |      | 35         | 156                           |
|       | Total                     |      | 29 | 30   |                 | 45 |        | 48 |      | 50         | 202                           |

|                         | - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 | inancial OllP- ( | alses a |     |      |                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------|------------------|---------|-----|------|-------------------------------|
| Сареж                   | FY21                                                                                                            | FY22 F           | Y23 FY  | '24 | FY25 | In Million Rs<br>5-Year Total |
| 4.0-C ERP SAP<br>Total  | 25<br>25                                                                                                        | 35<br>35         | 10      | 45  | 50   | 165                           |
| Orex<br>4.0-A ERP SAP - | FY21                                                                                                            | FY22 F           | Y23 FY  | -3  | FY25 | In Million Rs<br>5-Year Total |

Total

# Financing Plan:

| Funding                          | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | Total  |
|----------------------------------|---------|---------|---------|---------|---------|--------|
| Public Financed                  | 2070    | 3452    | 1769    | 2760    | 2828    | 14879  |
| DISCO's Financing through Tariff | 10,905  | 17,033  | 18,480  | 18,324  | 18,179  | 82,921 |

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## Section - VII

Benefits and Financial Analysis

A. Expansion and Rehabilitation of Secondary Transmission and Distribution System(Best & Achievable Case)

i. Tangible Benefits

| Vear    | MW         | Units<br>(MKWh) | MW   | Units<br>(MKWh) |
|---------|------------|-----------------|------|-----------------|
| 1 Cut   | Achievable | Achievable      | Best | Best            |
| 2020-21 | 30         | 113             | 52.5 | 199             |
| 2021-22 | 33.6       | 127             | 30.2 | 114             |
| 2022-23 | 20.0       | 76              | 9.7  | 37              |
| 2023-24 | 5.6        | 21              | 7.5  | 28              |
| 2024-25 | 9.4        | 36              | 4.7  | 18              |

# **Transmission-Loss Reduction**

# Additional Energy Available for Sales (Common for Tran Distn)

| Vear    |           | Best                           | Ac        | chievable                      |
|---------|-----------|--------------------------------|-----------|--------------------------------|
|         | MVA Added | Additional Energy<br>For Sales | MVA Added | Additional Energy<br>For Sales |
| 2020-21 | 629       | 3513.7                         | 501       | 2054.1                         |
| 2021-22 | 629       | 4161.5                         | 469       | 1922.9                         |
| 2022-23 | 669       | 3616.2                         | 629       | 2578.9                         |
| 2023-24 | 561       | 3116                           | 589       | 2414.9                         |
| 2024-25 | 517       | 2878.2                         | 481       | 1972.1                         |

|         | ,                   |                      |                  |               |         |
|---------|---------------------|----------------------|------------------|---------------|---------|
| Year    | HT<br>Rehabilitaion | LT<br>Rehabilitation | Energy<br>Meters | ABC<br>Cables | Total   |
|         | MkWh                | MkWh                 | MkWh             | MkWh          | MkWh    |
| 2020-21 | 126                 | 16.91                | 9.168            | 1.584         | 153.662 |
| 2021-22 | 145                 | 17.195               | 9.259            | 2.416         | 173.87  |
| 2022-23 | 186                 | 17.385               | 9.352            | 2.782         | 215.51  |
| 2023-24 | 192                 | 17.575               | 9.446            | 3.072         | 222.093 |
| 2024-25 | 174                 | 17.67                | 9.54             | 3.324         | 204.534 |
| Total   | 823                 | 86.735               | 46.765           | 13.178        | 969.678 |

# Distribution Loss Reduction (Best Case) Savings

Distribution Loss Reduction (Optimally Achievable Case)

| Year    | HT Rehab | LT Rehab | Energy Meters | ABC Cable | Total  |
|---------|----------|----------|---------------|-----------|--------|
|         | (MkWh)   | (MkWh)   | (MkWh)        | (MkWh)    | (MkWh) |
| 2020-21 | 90       | 11.82    | 9.168         | 0.792     | 111.8  |
| 2021-22 | 82       | 13.50    | 9.259         | 1.208     | 106.0  |
| 2022-23 | 97.2     | 13.80    | 9.352         | 1.391     | 121.7  |
| 2023-24 | 109.2    | 14.00    | 9.446         | 1.536     | 134.2  |
| 2024-25 | 111.6    | 15.00    | 9.540         | 1.662     | 137.8  |
| Total   | 490      | 68.1     | 46.8          | 6.6       | 611.5  |

# Saving

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Distribution Company Integrated Investment Plan (DIIP) / Business Plan - MEPCO

| Total Loss Reduction - DIIP Best Case                     |        |        |        |        |        |        |  |  |
|-----------------------------------------------------------|--------|--------|--------|--------|--------|--------|--|--|
| Loss<br>Reduction<br>MKWh                                 | FY2021 | FY2022 | FY2023 | FY2024 | FY2025 | Total  |  |  |
| Total DIIP<br>Loss Reduction<br>for Achievable<br>for MYT | 352.6  | 287.9  | 252.6  | 250.0  | 222.5  | 1365.6 |  |  |

| <b>Total Loss Reduction - DIIP Achievable Case</b>        |        |        |        |        |        |       |  |  |  |
|-----------------------------------------------------------|--------|--------|--------|--------|--------|-------|--|--|--|
| Loss<br>Reduction<br>MKWh                                 | FY2021 | FY2022 | FY2023 | FY2024 | FY2025 | Total |  |  |  |
| Total DIIP<br>Loss Reduction<br>for Achievable<br>for MYT | 224.8  | 233.0  | 197.7  | 155.2  | 173.8  | 984.5 |  |  |  |

### ii. Non-tangible Benefits

The other benefits like improvement in voltage profile, improving the overloading of the network are placed at **Annexure 8**.

## iii. Financial Analysis for the entire Transmission and Distribution Investments

• Internal financial rate of return (IFRR)of the STG investments and Distribution System Investments is placed at Annexure-19.

### iv. Sensitivity Analysis

The IFRR also contains the Sensitivity Analysis for the following scenarios are placed at Annexure-19

- Increasing costs by 7.47%, 10%, 12% and 15.02%
- Decreasing benefits by 7.47%, 10%, 12% and 15.02%
- Increasing costs and decreasing benefits by 7.47%, 10%, 12% and 15.02% each.

# Section - VIII Financial Projections for FY2021 to FY 2025

Following are provided in Annex-20

i. Profit and Loss Statement

il.

ii. Balance sheet and Cash Flow.

## Section - IX Investment Plan Implementation

#### Business Planning Organization for Preparation of Investment Plans

The stewardship responsibility of the Board of Directors (the Board) is to have an oversight role over the management of the DISCO, which is responsible for the day-to-day conduct of the business. The Board must assess and ensure systems are in place to identify and manage the risks of the Company's business with the underline objective of preserving Company's assets and steering it in a strategic direction that ensures fulfilling its objectives. The Board, through the Chief Executive Officer (CEO), sets the attitude and disposition of the Company towards achieving sets of goals and objectives, in compliance with applicable laws and regulations. Business Plan is a tool that helps a company to achieve its goals and objectives.

MEPCO has started the business planning initiative / DIIP that will entail company's goals and objectives to the initiatives that are required to meet those objectives. The integrated cross-functional plan will cover the core business (transmission and distribution system expansion and rehabilitation) and support business (improving the commercial, financial, HR and other functional improvement) initiatives to meet the stated objectives. In-order to sustain this initiative, a strategic planning organization is already established within MEPCO, who can assist the CEO of the Company to prepare, maintain, improve, monitor and get implemented the business plan.

Moreover, in businesses comparable to the scale of MEPCO, the planning restructuring of the overall organization including formation of Business Unit at the central level is a very essential step.

# Section - X

# Environmental and Social Assessment and Mitigation Plans

There will be environmental and social impacts of the implementing these projects. A detailed environmental and social assessment is required to be carried out to successfully complete this project.

# List of Tables



# **ANNEXURE-5**

# **PMS LOAD FORECAST**

| Strategic Goals | Strategic Objectives                       | Target<br>Measurement | Measurement<br>FY 2019-20              | Five Year Objectives FY 2020-21 to 2024-25       2020-21     2021-22     2022-23     2023-24     2024-25                                                                                                                                                                                                                                           | Supporting<br>Plan                     |
|-----------------|--------------------------------------------|-----------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|                 | 3.4.2 Implement CIS & its rollout          |                       | CIS completed<br>in all Circles        | Time to time development as per the requirements of data based on consumers                                                                                                                                                                                                                                                                        | an (CIP)                               |
|                 | 3.4.3 Strengthening Data Centre            |                       | Complete<br>Operational<br>data Centre | Full Utilization of Data Centre by replacing the End of Life (EOL)<br>equipment with updated technology and smooth transition of<br>applications accordingly.<br>Shifting of CIS/AMI/GIS servers from PITC Data Center at<br>Lahore to MEPCO Data Center, Multan as MEPCO Data Center,<br>Multan is well equipped as compared to PITC Data Center. | DIIP-Commercial<br>Improvement Pla     |
|                 | 3.4.4 Improve communications through email |                       | Paper based<br>communication           | Promote e-communication culture (outlook)                                                                                                                                                                                                                                                                                                          | DIIP-<br>Communic<br>ation<br>Improvem |

In the above table the goals for MEPCO are divided into five major categories (i) Improve operational efficiency (this includes technical (transmission and distribution systems operational efficiency<sup>1</sup>), financial, commercial, human resource, employee safety etc. (ii) Customers Services and Care, (iii) Improve DISCOs Infrastructure (with only top priority projects under the four heads defined that need highest of attention).

<sup>1</sup>NEPRA Performance Standards (Distribution) Rules, 2005 and Distribution Codes were consulted while preparing these objectives.

| Strategic Goals                          | Strategic Objectives                  | Target<br>Measurement | Measurement<br>FY 2019-20        | Five Year (                  |                                              | orting     |            |             |                                                            |  |
|------------------------------------------|---------------------------------------|-----------------------|----------------------------------|------------------------------|----------------------------------------------|------------|------------|-------------|------------------------------------------------------------|--|
|                                          |                                       |                       |                                  | 2020-21                      | 2021-22                                      | 2022-23    | 2023-24    | 2024-25     | Suppo                                                      |  |
|                                          | 3.3 Techno ware                       |                       |                                  |                              |                                              |            |            |             |                                                            |  |
| 3.0 Improve<br>MEPCO's<br>Infrastructure | 3.3.1 AMI expansion                   |                       | AMI Project<br>being<br>expanded | onverted to                  | DIIP-Commercial<br>Improvement Plan<br>(CIP) |            |            |             |                                                            |  |
|                                          | 3.3.2 P&E expansion to GIS<br>Mapping |                       | Fully<br>implemented             | Further impr                 | ovement in 5                                 | 5-years    |            |             | DilP-Transmission and<br>Distribution Plan                 |  |
|                                          | <u>3.4 Infor ware</u>                 |                       |                                  | · · ·                        |                                              |            |            |             |                                                            |  |
|                                          | 3.4.1 Implement ERP & its rollout     |                       | ERP project<br>implemented       | IT infrastruc<br>implementec | ture to be                                   | extended a | nd new moo | lules to be | DIIP-Financial<br>Management<br>Improvement Plan<br>(FMIP) |  |

| 양가, 문제가 많은 것이라고 있는 것이<br>같은 것은 것은 것은 것은 것이<br>같은 것은 것이 있는 것이라. 같은 것 |                                                                               |                                                               |                                                                                               | Five Year O                                                                | bjectives F | <b>/ 2020-21</b> to   | o 2024-25 |         | g                                |  |  |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------|-----------------------|-----------|---------|----------------------------------|--|--|
| Strategic<br>Goals                                                  | Strategic Objectives                                                          | Target<br>Measurement                                         | Measurement<br>FY 2019-20                                                                     | 2020-21                                                                    | 2021-22     | 2022-23               | 2023-24   | 2024-25 | Support<br>Plan                  |  |  |
|                                                                     | <u>3.1 Human-ware</u>                                                         |                                                               |                                                                                               |                                                                            |             |                       |           |         |                                  |  |  |
|                                                                     | 3.1.2 Start Training & capacity building initiatives                          | Legacy training Training needs analysis (TNA), Training plans |                                                                                               |                                                                            |             |                       |           |         | Resource<br>Improveme<br>nt Plan |  |  |
|                                                                     | <u>3.2 Orgaware</u>                                                           |                                                               |                                                                                               |                                                                            |             |                       |           |         |                                  |  |  |
| 3.0 Improve<br>MEPCO's<br>Infrastructure                            | 3.2.1 Manpower Plan & Revision of Organization Structure                      |                                                               | Implemented                                                                                   | Align organ                                                                | ategy       | ement Plan            |           |         |                                  |  |  |
|                                                                     | 3.2.2 Improve office facilities,<br>Training Facilities / work<br>environment |                                                               | Inadequate<br>facilities                                                                      | Needs impr                                                                 |             | urce Improve<br>HRIP) |           |         |                                  |  |  |
|                                                                     | 3.2.5 Improvement in health & education facilities for employees              |                                                               | Health Care<br>Policy<br>Implemented<br>& new<br>educational<br>scholarship<br>under approval | Approval by BOD for Well fare Policies particular educational scholarships |             |                       |           |         | DIIP-Human Reso                  |  |  |

|                                  |                                                                                    | Target<br>Measurement      |                                            | Five Year Objectives FY 2020-21 to 2024-25 |         |                              |        | . <u>e</u>           |                       |
|----------------------------------|------------------------------------------------------------------------------------|----------------------------|--------------------------------------------|--------------------------------------------|---------|------------------------------|--------|----------------------|-----------------------|
| Strategic<br>Goals               | Strategic Objectives                                                               |                            | Measurement<br>FY 2019-20                  | 2020-21                                    | 2021-22 | 2022-23                      | 2023-2 | 4 2024-25            | Supporti<br>g<br>Plan |
|                                  | SAP Pension System                                                                 | HCM System<br>Improvement  | <u></u>                                    | Work in<br>Process                         | 70%     | 30%                          | 1009   | % 100%               | Plan                  |
|                                  | SAP HCM Workflows                                                                  | HCM System<br>Improvement  | _                                          | 20%                                        | 60%     | 20%                          | 1009   | % 100%               | ement                 |
|                                  | SAP E-tendering                                                                    | MM System<br>Improvement   | ~                                          | 10%                                        | 90%     | 100%                         | 1009   | % 100%               | prove                 |
| Improve SAP                      | SAP FICO Integration with CIS (ORACLE)                                             | FICO System<br>Improvement |                                            | NIL                                        | 20%     | 40%                          | 40%    | 6 100%               | ient Im<br>IP)        |
|                                  | SAP Plant Maintenance/Project<br>System                                            | New SAP<br>Module          | -                                          | NIL                                        | 10%     | 25%                          | 25%    | 6 40%                | nagem<br>(FM          |
|                                  | SAP Dash Board                                                                     | New SAP<br>Module          |                                            | NIL                                        | NIL     | 40%                          | 60%    | 6 100%               | al Mai                |
|                                  | SAP Upgrade to HANA                                                                | improvement<br>SAP         |                                            | NIL                                        | NIL     | NIL                          | 20%    | 80%                  | inanci                |
| Improve<br>Regulatory<br>Affairs | 1.12 Regulatory MYT Affair                                                         | 5 Year MYT<br>Petition     | -                                          | _                                          | [       | Determination / Notification |        |                      | DIIP-F                |
|                                  | 2.1 Reducing complaints related to billings to less than 0.1%                      | %age of total consumers    | 0.2 %                                      | 0.1%                                       | 0.1%    | <0.1%                        | <0.1%  | <0.1%                |                       |
|                                  | 2.2 Minimize New Connections installation duration                                 | No of days                 | NEPRA's<br>Guidelines not<br>complied with | t To Comply with Consumer Service Manual   |         |                              |        |                      | Plan(CIP)             |
| Customer Care<br>and Service     | 2.3 Minimize Reconnection<br>installation duration                                 | No of days                 | NEPRA's<br>Guidelines not                  | not To Comply with Consumer Service Manual |         |                              |        | ollP-comn<br>ovement |                       |
|                                  | 2.4 Maximize the time between<br>date of receipt of bill and due date<br>(10 days) | Days                       | 7                                          | 7                                          | 10      | 10                           | 10     | 10                   | impr                  |

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| Strategic                                |                                                                                  | Target<br>Measurement                         | Measurement<br>FY 2019-20                                                                 | Five Year Objectives FY 2020-21 to 2024-25 |                                       |                  |                   |                   | Inting                         |
|------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------|------------------|-------------------|-------------------|--------------------------------|
| Goals                                    | Strategic Objectives                                                             |                                               |                                                                                           | 2020-21                                    | 2021-22                               | 2022-23          | 2023-24           | 2024-25           | Suppo<br>Pla                   |
|                                          | 1.1.2 Reduce Commercial Loss                                                     | % of KWh                                      | 0.3 % loss has<br>been reduced.<br>Therefore 1%<br>commercial<br>loss will be<br>reduced. | 0.3%                                       | 0.2%                                  | 0.2%             | 0.2%              | 0.1%              | al improvement Plan<br>(CIP)   |
|                                          | 1.2 Maintain Revenue recovery up to 100%                                         | %age billed<br>amount<br>excluding<br>subsidy | 100%                                                                                      | 100%                                       | 100%                                  | 100%             | 100%              | 100%              | IP-commerci                    |
|                                          | 1.3 Reduce meter reading to bill delivery time 1 days                            | Days                                          | 7                                                                                         | 7                                          | 7                                     | 7                | 7                 | 7                 | ā                              |
| 1.0 Improve<br>Operational<br>Efficiency | 1.4 Improve SAIDI/SAIFI To meet<br>specified regulatory performance<br>standards | Hours/No.'s                                   | Over specified<br>limits of NEPRA                                                         | To comply with NEPRA specified standards   |                                       |                  |                   |                   | o.<br>Sion &<br>on Plan        |
|                                          | 1.5 Eliminate fatal & non-fatal accidents                                        | No of<br>accidents                            | 10/10                                                                                     | Eliminate                                  | Eliminate                             | Eliminate        | Eliminate         | Eliminate         | DIIF<br>Transmis<br>Distributi |
|                                          | 1.6 Automation of Financial, HR<br>and Material Management<br>Processes          |                                               | Partial Through<br>ERP                                                                    | Partial<br>DISCO                           | Partial<br>DISCO                      | Partial<br>DISCO | Complete<br>DISCO | Complete<br>DISCO | ıl Managemen<br>nt Plan (FMIP) |
|                                          | 1.7 E-Transfer of bank scrolls by 100%                                           | %age of collection                            | 60% of<br>collection                                                                      |                                            | · · · · · · · · · · · · · · · · · · · | All              |                   |                   | DIIP-Financia<br>Improveme     |

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# Section -IV Next Five Years Goals and Objectives

## i. Goals and Objectives Matrix

The goals are long term targets and objectives are medium term targets. The objectives defined by MEPCO are SMART i.e. Specific, Measurable, Attainable, Realistic and Timely. The target setting has been done keeping in view what can be <u>achieved optimally</u> in next five years. Table below (DIIP4) lists the goals and objectives for next five years for the company, are prepared by extensive discussions and coordination within MEPCO and the signed-off goals and objectives from initial exercise are placed at Annexure-4:

|  | Strategic<br>Goals                       | Strategic Objectives                                                               | Target                 | Measurement   | Five Year Objectives FY 2020-21 to 2024-25 |          |          |          |                                | orting           |
|--|------------------------------------------|------------------------------------------------------------------------------------|------------------------|---------------|--------------------------------------------|----------|----------|----------|--------------------------------|------------------|
|  |                                          |                                                                                    | Measurement            | FY 2019-20    | 2020-21                                    | 2021-22  | 2022-23  | 2023-24  | 2024-25                        | Suppo<br>Pla     |
|  |                                          | 1.1 Reduce overall electricity losses                                              | % of kWh               | 15.2%         | 15.0%                                      | 14.75%   | 14.6%    | 14.4%    | 14.3%                          |                  |
|  |                                          | Improving voltage profile To meet<br>specified regulatory performance<br>standards | % of specified voltage | (+ -) 13%     | Improved                                   | Improved | Improved | Improved | Within<br>acceptable<br>limits | ribution Plar    |
|  | 1.0 Improve<br>Operational<br>Efficiency | Improve power factor to meet specified regulatory standards                        | 0.95%                  | Average 0.92  | Improved                                   | Improved | Improved | Improved | Average<br>0.95                | mission and Dist |
|  |                                          | Reduce distribution transformers failure rate to <1%                               | Less than 1%           | Reported 0.3% | Improved                                   | Improved | Improved | Improved | Improved                       | DIIP-Trans       |
|  |                                          | Improve HT/LT ratio to 2:1                                                         | Ratio                  | 1.56:1        | Improved                                   | Improved | Improved | Improved | Improved                       |                  |

DHPI - Goals and Objectives Matrix

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# **ANNEXURE-4**

4

**NEXT FIVE YEARS GOALS & OBJECTIVES**
|     |                                                                           |            | 2024   |        |                      |                                              |        |
|-----|---------------------------------------------------------------------------|------------|--------|--------|----------------------|----------------------------------------------|--------|
| 1   | Tarbela 5th-Extension                                                     | Hydro      | 1,410  | 1,410  | WAPDA                | Committed                                    | Sep-23 |
| 2   | Jamshoro CFPP Unit<br>2                                                   | Imp.Coal   | 660    | 644    | GENCO                | Committed                                    | Dec-23 |
| - 3 | Blue Star                                                                 | Hydro      | 3      | 3      | PEDO                 | Candidate                                    | 2024   |
| 4   | Generic_Candidate<br>Local Coal                                           | Local Coal | 1,514  | 1,514  | Yet to be<br>Decided | Candidate                                    | 2024   |
| . 5 | Generic_Candidate<br>Solar                                                | Solar      | 1,500  | 1,500  | Yet to be<br>Decided | Candidate                                    | 2024   |
| 6   | Generic_Candidate<br>Wind_Mid                                             | Wind       | 300    | 300    | Yet to be<br>Decided | Candidate                                    | 2024   |
| 7   | Generic_Candidate<br>Wind_North                                           | Wind       | 89 ·   | 89     | Yet to be<br>Decided | Candidate                                    | 2024   |
| 8   | Generic_Candidate<br>Wind_South                                           | Wind       | 1,000  | 1,000  | Yet to be<br>Decided | Candidate                                    | 2024   |
|     | Generation Additions in                                                   | 2024 (MW)  | 6,475  | 6,459  |                      |                                              |        |
| Cı  | imulative Addition up till                                                | 2024 (MW)  | 21,668 | 21,260 |                      |                                              |        |
|     | n produce som att Schlade andersen att att att att att att att att att at |            | 2025   |        |                      | Proventier and a second second second second |        |
| 1   | Keyal Khwar                                                               | Hydro      | 128    | 128    | WAPDA                | Committed                                    | Sep-Ź4 |
| 2   | Mohmand                                                                   | Hydro      | 800    | 800    | WAPDA                | Committed                                    | Nov-24 |
| 3   | Generic_Candidate<br>Solar                                                | Solar      | 1,500  | 1,500  | Yet to be<br>Decided | Candidate                                    | 2025   |
| 4   | Generic_Candidate<br>Wind_South                                           | Wind       | 922    | 922    | Yet to be<br>Decided | Candidate                                    | 2025   |
| 5   | Dasu 1                                                                    | Hydro      | 2,160  | 2,160  | WAPDA                | Committed                                    | Feb-25 |
|     | Generation Additions in                                                   | 2025 (MW)  | 5,510  | 5,510  |                      |                                              |        |
| Cı  | mulative Addition up till                                                 | 2025 (MW)  | 27,179 | 26,770 |                      |                                              |        |

 $\star \stackrel{2}{=} E_{i}^{i} \sum_{j=1}^{n}$ 

| 27   | Hamza Sugar Mills<br>Ltd. (Unit-II) | Bagasse   | 30     | 30     | AEDB                 | Committed | Mar-22 |
|------|-------------------------------------|-----------|--------|--------|----------------------|-----------|--------|
| 28   | HSM Energy Ltd.                     | Bagasse   | 27     | 26.5   | AEDB                 | Committed | Mar-22 |
| 29   | Hunza Power (Pvt.)<br>Ltd.          | Bagasse   | 50     | 49.8   | AEDB                 | Committed | Mar-22 |
| 30   | Indus Energy Ltd.                   | Bagasse   | 31     | 31     | AEDB                 | Committed | Mar-22 |
| 31   | Ittefaq Power Ltd.                  | Bagasse   | 31     | 31.2   | AEDB                 | Committed | Mar-22 |
| 32   | Kashmir Power (Pvt.)<br>Ltd.        | Bagasse   | 40     | 40     | AEDB                 | Committed | Mar-22 |
| 33   | Mehran Energy Ltd.                  | Bagasse   | 27     | 26.5   | ĄEDB                 | Committed | Mar-22 |
| 34   | RYK Energy Ltd.                     | Bagasse   | 25     | 25     | AEDB                 | Committed | Mar-22 |
| 35   | Sadiqabad Power<br>(Pvt.) Ltd.      | Bagasse   | 45     | 45     | AEDB                 | Committed | Mar-22 |
| 36   | Shahtaj Sugar Mills<br>Ltd.         | Bagasse   | 32     | 32     | AEDB                 | Committed | Mar-22 |
| 37   | Sheikhoo Power (Pvt.)<br>Ltd.       | Bagasse   | 30     | 30     | AEDB                 | Committed | Mar-22 |
| 38   | TAY Powergen<br>Company (Pvt.) Ltd. | Bagasse   | 30     | 30     | AEDB                 | Committed | Mar-22 |
| 39   | Two Star Energy (Pvt.)<br>Ltd.      | Bagasse   | 50     | 49.8   | AEDB                 | Committed | Mar-22 |
| Gene | eration Additions in 2022           | (MW)      | 4,851  | 4,713  |                      |           |        |
| Cumu | lative Addition up till 2022        | 2 (MW)    | 10,225 | 9,832  |                      |           |        |
|      |                                     |           | 2023   |        |                      |           |        |
| 1    | Gorkin Matiltan                     | Hydro     | 84     | 84     | PEDO                 | Committed | Nov-22 |
| 2    | Suki Kinari                         | Hydro     | 884    | 884    | PPIB                 | Committed | Dec-22 |
| 3    | Generic_Candidate<br>Solar          | Solar     | 1,500  | 1,500  | Yet to be<br>Decided | Candidate | 2023   |
| 4    | Generic_Candidate<br>Wind_Mid       | Wind      | 300    | 300    | Yet to be<br>Decided | Candidate | 2023   |
| 5    | Generic_Candidate<br>Wind_North     | Wind      | 200    | 200    | Yet to be<br>Decided | Candidate | 2023   |
| 6    | Generic_Candidate<br>Wind_South     | Wind      | 1,000  | 1,000  | Yet to be<br>Decided | Candidate | 2023   |
| 7    | CASA                                | Import    | 1,000  | 1,000  | GOP                  | Committed | May-23 |
|      | Generation Additions in 2           | 2023 (MW) | 4,968  | 4,968  |                      |           |        |
| Cu   | umulative Addition up till          | 2023 (MW) | 15,193 | 14,800 |                      |           |        |

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| 4                  |    |                                                      |            | 2022 |        |               |           |        |
|--------------------|----|------------------------------------------------------|------------|------|--------|---------------|-----------|--------|
| •                  | 1  | HNDS Energy Pvt.<br>Ltd.                             | Solar      | 50   | 50     | AEDB          | Committed | Jul-21 |
|                    | 2  | Helios Power Pvt. Ltd.                               | Solar      | 50   | 50     | AEDB          | Committed | Jul-21 |
|                    | 3  | Thar-I (Shanghai<br>Electric) Unit 2                 | Local Coal | 660  | 607    | PPIB          | Committed | Aug-21 |
|                    | 4  | Karachi Nuclear K-3                                  | Nuclear    | 1100 | 1,059  | PAEC          | Committed | Sep-21 |
|                    | 5  | Buksh Energy Pvt. Ltd.                               | Solar      | 12   | 11.664 | AEDB          | Committed | Sep-21 |
|                    | 6  | Safe Solar Power Pvt.<br>Ltd.                        | Solar      | 10   | 10.28  | AEDB          | Committed | Sep-21 |
| •                  | 7  | Artistic Wind Power<br>Pvt. Limited.                 | Wind       | 50   | 50     | AEDB          | Committed | Oct-21 |
|                    | 8  | Meridian Energy Pvt.<br>Ltd.                         | Solar      | 50   | 50     | AEDB          | Committed | Nov-21 |
| · · · · ·          | 9  | Zhenfa Pakistan New<br>Energy Company<br>(Pvt.) Ltd. | Solar      | 100  | 100    | PPDB/<br>AEDB | Committed | Nov-21 |
|                    | 10 | Karot                                                | Hydro      | 720  | 720    | PPIB/AJK      | Committed | Dec-21 |
|                    | 11 | Jamshoro CFPP Unit                                   | Imp.Coal   | 660  | 644    | GENCO         | Committed | Dec-21 |
|                    | 12 | Gwadar                                               | Imp Coal   | 300  | 273.1  | PPIB          | Committed | Jan-22 |
| 2                  | 13 | Gul Ahmed Electric<br>Ltd.                           | Wind       | 50   | 50     | AEDB          | Committed | Jan-22 |
|                    | 14 | ACT 2 wind (Pvt.) Ltd.                               | Wind       | 50   | 50     | AEDB          | Committed | Feb-22 |
|                    | 15 | Din Energy Ltd.                                      | Wind       | 50   | 50     | AEDB          | Committed | Feb-22 |
|                    | 16 | Indus Wind Energy<br>Ltd.                            | Wind       | 50   | 50     | AEDB          | Committed | Feb-22 |
|                    | 17 | Lakeside Energy Pvt.<br>Ltd                          | Wind       | 50   | 50     | AEDB          | Committed | Feb-22 |
|                    | 18 | Liberty Wind Power 1<br>Pvt. Ltd.                    | Wind       | 50   | 50     | AEDB          | Committed | Feb-22 |
|                    | 19 | Liberty Wind Power 2<br>Pvt. Ltd.                    | Wind       | 50   | 50     | AEDB          | Committed | Feb-22 |
| 영국 가슴다.<br>같은 같은 것 | 20 | Metro Wind Power Ltd.                                | Wind       | 60   | 60     | AEDB          | Committed | Feb-22 |
|                    | 21 | NASDA Green Energy<br>Pvt. Ltd                       | Wind       | 50   | 50     | AEDB          | Committed | Feb-22 |
|                    | 22 | Trans Atlantic Energy<br>(Pvt.) Limited              | Wind       | 48   | 48.3   | AEDB          | Committed | Feb-22 |
|                    | 23 | Alliance Power (Pvt.)<br>Ltd.                        | Bagasse    | 30   | 30     | AEDB          | Committed | Mar-22 |
|                    | 24 | Bahawalpur Energy<br>Ltd.                            | Bagasse    | 31   | 31.2   | AEDB          | Committed | Mar-22 |
|                    | 25 | Faran Power Limited                                  | Bagasse    | 27   | 26.5   | AEDB          | Committed | Mar-22 |
|                    | 26 | Ghotki Power (Pvt.)<br>Ltd.                          | Bagasse    | 45   | 45     | AEDB          | Committed | Mar-22 |

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### List of Projects (Committed+Candidate) till 2025 (IGCEP-47)

| #      | Name of Project                          | Fuel Type  | Installed<br>Capacity | Nominal<br>Capacity | Agency        | Status                                 | Schedule of<br>Commissioning |
|--------|------------------------------------------|------------|-----------------------|---------------------|---------------|----------------------------------------|------------------------------|
|        |                                          |            | 2020                  |                     |               |                                        |                              |
| 1      | Zorlu Solar Pakistan<br>Pvt. Ltd.        | Solar      | 100                   | 100                 | PPDB/<br>AEDB | Committed                              | Jan-20                       |
| 2      | Jabori                                   | Hydro      | 10                    | 10                  | PEDO          | Committed                              | Mar-20                       |
| 3      | Trimmu                                   | RLNG       | 1,263                 | 1,243               | PPIB          | Committed                              | Apr-20                       |
| 4      | Jhing                                    | Hydro      | 15                    | 15                  | AJK           | Committed                              | Jun-20                       |
| 5      | Karora                                   | Hydro      | 12                    | 12                  | PEDO          | Committed                              | Jun-20                       |
| 6      | Koto                                     | Hydro      | 41                    | 41                  | PEDO          | Committed                              | Jun-20                       |
| Gene   | ration Additions in 2020                 | (MW)       | 1,441                 | 1,421               |               |                                        |                              |
| Cumula | ative Addition up till 202               | 0 (MW)     | 1,441                 | 1,421               |               |                                        |                              |
|        |                                          |            | 2021                  |                     |               |                                        |                              |
| 1      | Etihad Power<br>Generation Ltd.          | Bagasse    | 74                    | 74                  | AEDB          | Committed                              | Jul-20                       |
| 2      | Karachi Nuclear K-2                      | Nuclear    | 1,100                 | 1,059               | PAEC          | Committed                              | Nov-20                       |
| 3      | Master Green Energy<br>Ltd.              | Wind       | 50                    | .50                 | AEDB          | Committed                              | Nov-20                       |
| 4      | Shaheen Renewable<br>Energy-1 Pvt. Ltd.  | Wind       | 51                    | 51                  | AEDB          | Committed                              | Nov-20                       |
| 5      | Lawi                                     | Hydro      | 69                    | 69                  | PEDO          | Committed                              | Jan-21                       |
| 6      | Tricorm Wind Power<br>Pvt. Ltd           | Wind       | 50                    | 50                  | AEDB          | Committed                              | Feb-21                       |
| 7      | Western Energy Pvt.<br>Limited           | Wind       | 50                    | 50                  | AEDB          | Committed                              | Feb-21                       |
| 8      | Lucky                                    | Local Coal | 660                   | 607                 | PPIB          | Committed                              | Mar-21                       |
| 9      | Access Electric Pvt.<br>Ltd.             | Solar      | 10                    | 10                  | AEDB          | Committed                              | Mar-21                       |
| 10     | Access Solar Pvt. Ltd.                   | Solar      | 12                    | 12                  | AEDB          | Committed                              | Mar-21                       |
| 11     | Thal Nova                                | Local Coal | 330                   | .300                | PPIB          | Committed                              | Mar-21                       |
| 12     | Thar TEL                                 | Local Coal | 330                   | 300                 | PPIB          | Committed                              | Mar-21                       |
| 13     | Thar-I (Shanghai<br>Electric) Unit 1     | Local Coal | 660                   | 607                 | PPIB          | Committed                              | Mar-21                       |
| 14     | Riali-II                                 | Hydro      | 7                     | 7                   | AJK           | Committed                              | Jun-21                       |
| 15     | Hydro China Dawood<br>Power Pvt. Limited | Wind       | 50                    | 50                  | AEDB          | Committed                              | Jun-21                       |
| 16     | Tenga Generasi<br>Limited                | Wind       | 50                    | 50                  | AEDB          | Committed                              | Jun-21                       |
| 17     | Zephyr Power Pvt. Limi                   | Wind       | 50                    | 50                  | AEDB          | Committed                              | Jun-21                       |
| 18     | Siddiqsons                               | Local Coal | 330                   | 304                 | PPIB          | Committed                              | Jun-21                       |
| Gener  | ation Additions in 2021                  | (MW)       | 3,933                 | 3,698               |               | ************************************** |                              |
| Cumula | ative Addition uptill 2021               | (MW)       | 5,374                 | 5,119               |               |                                        | ·                            |

# **ANNEXURE-3**

# **NTDC GENERATION PLAN**

# BREAKUP OF MEPCO LOSSES (2019-20)

| Description            | Area         | urrent Status |
|------------------------|--------------|---------------|
| Technical Losses       | STG          | 1.5           |
|                        | Distribution | 12.4          |
| Administrative<br>Loss | - 1.3        | 1.3           |
| Total Loss             | - 15.2       | 15.2          |

# **ANNEXURE-2**

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# **TRANSMISSION & DISTRIBUTION**

LOSSES

| ······································ | Coda |              |                | Date of       | Voltage | C   | APACIT | Ϋ́Υ   | MAX   | IMUM LOA | D RECO | RDED   | Load    | Total/         | Loading% |
|----------------------------------------|------|--------------|----------------|---------------|---------|-----|--------|-------|-------|----------|--------|--------|---------|----------------|----------|
| Name of Grid Station                   | No.  | Serial No:   | Make           | Commissioning | Ratio   | MVA | LV     | H.V   | Time  | Date     | ·Load  | % age. | Shedded | Actual<br>Load | age      |
|                                        | T-1  | 1150075      | PEL            | 04.02.2016    | 132/11  | 40  | 2008   | 175   | 0:00  | 20.06.20 | 1210   | 60.26  | 0       | 1210           | 60.26    |
| 132KV Sahiwal New                      | T-2  | 260001       | PEL Pakistan   | 07.08.2007    | 132/11  | 26  | 1305   | 113.7 | 0:00  | 17.06.20 | 675    | 51.72  | 0       | 675            | 51.72    |
|                                        | T-3  | -            | HEC            | 06.12.2016    | 132/11  | 26  | 1305   | 113.7 | 0:00  | 20.06.20 | 720    | 55.17  | 0       | 720            | 55.17    |
| 122KV Sobium III                       | T-1  | 8830253      | IRAN TRANSFO   | 30.04.2014    | 132/11  | 26  | 1305   | 113.7 | 0:00  | 15.06.20 | 950    | 72.80  | 0       | 950            | 72.80    |
| 132K V Santwai-In                      | T-2  | 8830254      | IRAN TRANSFO   | 30.04.2014    | 132/11  | 26  | 1305   | 113.7 | 0:00  | 17.06.20 | 970    | 74.33  | 0       | 970            | 74.33    |
|                                        | T-1  | LPK 10300008 | SIEMENS        | 14.08.2012    | 132/11  | 26  | 1305   | 113.7 | 7:12  | 19.06.20 | 1030   | 78.93  | 0       | 1030           | 78.93    |
| 132KV Sheikh Fazal                     | T-2  | 1120028      | PEL            | 05.11.2012    | 132/11  | 26  | 1305   | 113.7 | 0:00  | 23.06.20 | 850    | 65.13  | 0       | 850            | 65.13    |
|                                        | T-3  | 110292       | ELPROM         | 06.09.2016    | 132/11  | 13  | 653    | 57    | 0:00  | 23.06.20 | 380    | 58.19  | 0       | 380            | 58.19    |
| 132KV Sabuka                           | T-1  | T-540        | HEC            | 15.05.2005    | 132/11  | 26  | 1305   | 113.7 | 0:00  | 11.06.20 | 740    | 56.70  | 0       | 740            | 56.70    |
|                                        | T-2  | 201512470    | CHINT CHINA    | 04.10.2016    | 132/11  | 40  | 2008   | 175   | 0:00  | 23.06.20 | 1060   | 52.79  | 0       | 1060           | 52.79    |
|                                        | T-1  | HV1150073    | PEL            | 16.01.2016    | 132/11  | 40  | 2008   | 175   | 11:00 | 16.06.20 | -1185  | 59.01  | 0       | 1185           | 59.01    |
| 132KV Vehari                           | T-2  | HV 1120052   | PEL            | 11.04.2019    | 132/11  | 40  | 2008   | 175   | 18:00 | 23.06.20 | 1335   | 66.48  | 0       | 1335           | 66.48    |
|                                        | T-3  | 12 P 210-3   | SHENYANG       | 30.09.2013    | 132/11  | 26  | 1305   | 114   | 13:30 | 23.06.20 | 990    | 75.86  | 0       | 990            | 75.86    |
| 66KV Chighting                         | T-1  | 95877        | ELPROM Energo  | 19.05.2017    | 66/11   | 13  | 653    | 114   | 15:00 | 22.06.20 | 350    | 53.60  | 0       | 350            | 53.60    |
|                                        | T-2  | 982695       | ASEA (Sweeden) | 03.03.2005    | 66/11   | 2.5 | 131    | 22    | 22:00 | 22.06.20 | 83     | 63.36  | 0       | 83             | 63.36    |
| 66 KV Bakhshan Khan                    | T-1  | 6256         | OEL Italy      | 13.05.2017    | 66/11   | 13  | 653    | 114   | 15:00 | 24.06.20 | 290    | 44.41  | 0       | 290            | 44.41    |
|                                        |      |              |                |               | -       |     |        |       |       |          |        |        |         |                |          |

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| Name of Grid Station                  | Code  | Serial No:    | Make              | Date of       | Voltage                                                  | 0     | CAPACIT | Y     | MAX   | IMUM LOA | D RECO | RDED   | Load    | Total/         | Loading%       |
|---------------------------------------|-------|---------------|-------------------|---------------|----------------------------------------------------------|-------|---------|-------|-------|----------|--------|--------|---------|----------------|----------------|
|                                       | No.   |               | mane              | Commissioning | Ratio                                                    | MVA   | LV      | H.V   | Time  | Date     | Load   | % age. | Shedded | Actual<br>Load | age            |
| ······                                | T-4   | 201512468     | CHINT CHINA       | 03.11.2016    | 132/11                                                   | 40    | 2008    | 175   | 0:00  | 23.06.20 | 1680   | 83.67  | 0       | 1680           | 83.67          |
| 132KV Kameer                          | T-1   | LPK-11300024  | SIEMENS           | 13.05.2015    | 132/11                                                   | 26    | 1305    | 114   | 17.30 | 15.06.20 | 680    | 52.11  | 0       | 680            | 52.11          |
|                                       | T-2   | LPK-11300021  | SIEMENS           | 29.09.2015    | 132/11                                                   | 26    | 1305    | 114   | 12.00 | 18.06.20 | 540    | 41.38  | 0       | 540            | 41.38          |
|                                       | T-1   | 8830252       | IRAN TRANSFO      | 23.12.2010    | 132/11                                                   | 26    | 1305    | 114   | 0:00  | 17.06.20 | 735    | 56.32  | 0       | 735            | 56.32          |
| 132KV Kacha Khuh                      | T-2   | 8530337       | IRAN TRANSFO      | 18.06.2007    | 132/11                                                   | 26    | 1305    | 114   | 0:00  | 23.06.20 | 880    | 67.43  | 0       | 880            | 67.43          |
|                                       | T-3   | T-5-174       | HEC               | 28.03.2017    | 132/11                                                   | 26    | 1305    | 114   | 0:00  | 25.06.20 | 921    | 70.57  | 0       | 921            | 70.57          |
| 132KV Kassowal New                    | T-1   | 175720        | ELTA POLAND       | 28.11.2019    | 132/11                                                   | 26    | 1305    | 114   | 0:00  | 17.06.20 | . 680  | 52.11  | 0       | 680            | 52.11          |
| 132KV Karam Pur                       | T-l   | 10400027      | SIEMENS PAKISTAN  | 23.02.2016    | 132/11                                                   | 26    | 1305    | 114   | 15.00 | 01.06.20 | 620    | 47.51  | 0       | 620            | 47.51          |
|                                       | T-2   | 10500030      | SIEMENS           | 07.06.2011    | 132/11                                                   | 26    | 1305    | 114   | 15.00 | 01.06.20 | 630    | 48.28  | 0       | 630            | 48.28          |
|                                       | T-1   | 11100016      | SIEMENS           | 29.03.2011    | 132/11                                                   | 40    | 2008    | 175   | 17:00 | 27.6.20  | 1360   | 67.73  | 0       | 1360           | 67.73          |
| 132KV Kehror Pacca                    |       | 10500022      | SIEMENS           | 20.10.2008    | 132/11                                                   | 26    | 1305    | 114   | 18:00 | 23.6.20  | 930    | 71.26  | 0       | 930            | 71.26          |
| ·                                     | Т-3   | HV1200005     | PEL               | 21.04.2020    | 132/11                                                   | 40    | 2008    | 175   | 18:30 | 27.6.20  | 940    | 46.81  | 0       | 940            | 46.81          |
| 32KV Khair Pur Tomewali               | T-1   | 8830256       | IRAN TRANSFO      | 08.05.2014    | 132/11                                                   | 26    | 1305    | 114   | 17:00 | 27.06.20 | 780    | 59.77  | 0       | 780            | 59.77          |
|                                       | T-2   | HV 109009     | PEL               | 28.01.2016    | <u>132/11</u> 26 1305 114 15:00 23.06.20 780 59.77 0 780 |       |         | 59.77 |       |          |        |        |         |                |                |
| 132KV Khichi Wala                     | T-1   | 43986         | PARSON PEBBLES    | 11.02.2020    | 132/11                                                   | 13    | 653     | 57    | 13:00 | 24.6.20  | 210    | 32.16  | 0       | 210            | 32.16          |
|                                       | T-2   | 110293        | Elprom Energo     | 27.01.2020    | 132/11                                                   | 13    | 653     | 57    | 13:00 | 19.6.20  | 160    | 12.26  | 0       | 0              | 0.00           |
| 132KV Luddon                          | T-1   | 1H 9345       | MEIDEN            | 22.05.2017    | 132/11                                                   | 26    | 1305    | 80    | 18:00 | 17.06.20 | 640    | 49.04  | 0       | 640            | 49.04          |
|                                       | T-2   | 135428/1988   | GENZ              | 30.11.2011    | 132/11                                                   | 26    | 1305    | 114   | 17:00 | 15.06.20 | 560    | 42.91  | 0       | 560            | 42.91          |
| · · ·                                 | T-1   | PEL           | HV 1200008        | 29.06.2020    | 132/11                                                   | 40    | 2008    | 175   | 14.00 | 30.6.20  | · 940  | 46.81  | 0       | 940            | 46.81          |
| 132KV Mailsi                          | T-2   | 201512451     | CHINT China       | 29.09.2016    | 132/11                                                   | 40    | 2008    | 175   | 14.00 | 18620    | 1280   | 63 75  | 0       | 1280           | 63 75          |
|                                       | T-3   | 8830255       | IRAN TRANSFO      | 02.04.2013    | 132/11                                                   | 26    | 1305    | 114   | 18.00 | 23.6.20  | 750    | 57.47  | 0       | 750            | 57 47          |
|                                       | T-3   | HV 1170029    | PEL               | 29.08.2019    | 132/11                                                   | 26    | 1305    | 114   | 21.00 | 20.6.20  | 500    | 38.31  | 0       | 500            | 38.31          |
| 132KV McLeod Gunj                     | T-4   | HV 1170036    | PEL               | 29.08.2019    | 132/11                                                   | 26    | 1305    | 114   | 21.00 | 20.6.20  | 490    | 37 55  | 0       | 490            | 37.55          |
|                                       | T-4   | HV 1170033    | PEL               | 30.04.19      | 132/11                                                   | 20/26 | 1305    | 114   | 15:00 | 24.6.20  | 430    | 32.95  | 0       | 430            | 32.95          |
| 132KV Minchin Adad                    | Т-5 . | HV 1170027    | PEL               | 30.04.19      | 132/11                                                   | 20/26 | 1305    | 114   | 15:00 | 16.06.20 | 540    | 41.38  | 0       | 540            | 41.38          |
| · · · · · · · · · · · · · · · · · · · | T-1   | 201512452     | CHINT CHINA       | 08.11.2016    | 132/11                                                   | 40    | 2008    | 175   | 0:00  | 20.06.20 | 1440   | 71.71  | 0       | 1440           | 71 71          |
| 32KV Mianchannu                       | Т-2   | 10900041      | SIEMENS           | 27.08.2009    | 132/11                                                   | 40    | 2008    | 175   | 0:00  | 16.06.20 | 1440   | 71.71  | 0       | 1440           | 71.71          |
|                                       | T-3   | 10600026      | SIEMENS           | 21.12.2006    | 132/11                                                   | 40    | 2008    | 175   | 0:00  | 30.06.20 | 1600   | 79.68  | 0       | 1600           | 79.68          |
| 22KM Malili da ora Dun Daliana        | T-1   | 8830258       | IRAN TRANSFO      | 20.09.2012    | 132/11                                                   | 26    | 1305    | 114   | 0:00  | 23.06.20 | 812    | 62.22  | 0       | 812            | 62.22          |
| 32KV Makhdooni Pur Pahoran            | T-2   | 1H9359T4      | Meiden Sha        | 26.04.2018    | 132/11                                                   | 13    | 653     | 57    | 7.12  | 19.06.20 | 420    | 64 32  | 0       | 420            | 64.32          |
| -                                     | T-1   | 1090005       | PEL Pakistan      | 24 03 2009    | 132/11                                                   | 26    | 1305    | 114   | 0.00  | 09.06.20 | 800    | 61.30  | - 0     | 800            | 61.30          |
| 32KV Noor Pur                         | T-2   | 1120043       | PEL Pakistan      | 11 12 2012    | 132/11                                                   | 26    | 1305    | 114   | 0.00  | 20.06.20 | 820    | 62.84  | 0       | 820            | 62.84          |
|                                       | T-3   | 81-25598      | TRAFOLINION       | 14 03 2019    | 132/11                                                   | 13    | 653     | 57    | 0.00  | 20.00.20 | 020    | 02.04  | 0       | 020            | 02.04          |
|                                       | T-1   | HV 1090015    | PEL               | 21-12-2016    | 132/11                                                   | 26    | 1305    | 114   | 12.00 | 30.6.20  | 550    | 12.15  |         | 550            | 12.15          |
| 32KV Noor Ser                         | T-2   | 1H 9359T1     | Meidensha (Japan) | 26 10 2015    | 132/11                                                   | 13    | 653     | 57    | 12:00 | 30.6.20  | 250    | 52.60  | 0       | 250            | 52.60          |
|                                       | T-1   | LPK 11100008  | SIFMENS           | 25.01.2011    | 132/11                                                   | 40    | 2008    | 175   | 0:00  | 19.06.20 | 1660   | 82.67  | 0       | 1660           | 92.67          |
| 32KV Paknattan                        | T_2   | 1150076       | DEL Dakietan      | 27.01.2016    | 132/11                                                   | 40    | 2008    | 175   | 0.00  | 19.00.20 | 1600   | 70.69  | 0       | 1000           | 02.07          |
|                                       | T-3   | 201512464     | CHINT CHINA       | 01 11 2016    | 132/11                                                   | 40    | 2008    | 175   | 0.00  | 10.06.20 | 1500   | 79.08  | 0       | 1600           | 79.08          |
|                                       | T_1   | 1 PK 10300015 | SIEMENS           | 23 10 2003    | 132/11                                                   | 40    | 1205    | 113   | 0.00  | 17.06.20 | 700    | 74.70  | 0       | 1500           | 74.70          |
| 32KV Oabula                           | T.2   | 1080010       | DEL Dekisten      | 17 03 2000    | 132/11                                                   | 20    | 1205    | 114   | 0.00  | 17.06.20 | 700    | 53.04  | 0       | /00            | 53.04          |
| SZICY Quotina                         | T-3   | 201512473     | CHINT CHINIA      | 25 11 2016    | 132/11                                                   | 20    | 1303    | 175   | 7.12  | 14.06.20 | 12(0   | 52.11  | 0       | 12(0           | 52.11          |
|                                       | T 1   | 1120030       | DEL Dalciaton     | 02 11 2010    | 122/11                                                   | 40    | 2008    | 1/3   | /:12  | 23.00.20 | 1200   | 02./3  | U       | 1260           | 62.75          |
| 32KV Qadirabad                        | T.2   | 1/120039      | ELECTRO DUTERT    | 20.00.2002    | 122/11                                                   | 20    | 1303    | -114  | 0:00  | 23.00.20 | 570    | 22.17  | 0       | 120            | <u>1 33.17</u> |
|                                       | 1-Z   | 141209        |                   | 20.09.2003    | 132/11                                                   | 1.5   | -000    | 57    | 0:00  | 23.06.20 | 5/0    | 87.29  |         | 570            | 87.29          |
| 32KV Sabiwal Old                      | T.2   | 10500029      | CIEMENIC          | 03.08.2009    | 132/11                                                   | 40    | 2008    | 1/5   | 0:00  | 10.06.20 | 1200   | 39.76  | 0       | 1200           | 59.76          |
|                                       | 1"Z   | 10000020      | SIEWIEINS         | 03.10.2003    | 132/11                                                   | 20    | 1305    | 113.9 |       | 22.06.20 | 1040   | /9.69  | 0       | 1040           | /9.69          |
| <b>,</b>                              | 1-3   | 1834312       | Ivieiden 👘        | 04.05.2017Pa  | 1e 7 h€/81                                               | 26    | 1305    | 57 💽  | 0:00  | 16.06.20 | 520    | 39.85  | 0       | 520            | 39.85          |

|                                       | Code                | · · · · · · · · · · · · · · · · · · · |                  | Date of       | Voltage | C    | CAPACIT | Y     | MAX   | IMUM LOA | D RECO | RDED   | Load        | Total/ | Loading |
|---------------------------------------|---------------------|---------------------------------------|------------------|---------------|---------|------|---------|-------|-------|----------|--------|--------|-------------|--------|---------|
| Mame of Grid Station                  | No.                 | Serial No:                            | Make             | Commissioning | Ratio   | MVA  | LV      | H.V   | Time  | Date     | Load   | % age. | Shedded     | Actual | age     |
| 32KV Bahawal Nagar-II                 |                     |                                       | RAD Knacar       | 10.10.2019    | 132/11  | 13   | 653     | 57    | 24:00 | 22.06.20 | 195    | 29.86  | 0           | 195    | 29.86   |
| SZACT Bundwid Huga II                 | T-1                 | 201512463                             | CHINT CHINA      | 17 11 2016    | 132/11  | 40   | 2008    | 175   | 0:00  | 27.06.20 | 1260   | 62.75  | 0           | 1260   | 62.75   |
| 32KV Burewala                         | T-2                 | 1150065                               | PEL Pakistan     | 06.01.2016    | 132/11  | 40   | 2008    | 175   | 0:00  | 20.06.20 | .1140  | 56.77  | 0           | 1140   | 56.77   |
|                                       | T-3                 | 201708418                             | CHINT CHINA      | 28.07.2018    | 132/11  | 40   | 2008    | 175   | 0:00  | 24.06.20 | 1250   | 62.25  | 0           | 1250   | 62.25   |
|                                       | T-1                 | 138849                                | ELECTRO PUTERE   | 29.02.2016    | 132/11  | 26   | 1305    | 114   | 0:00  | 22.06.20 | 540    | 41.38  | 0           | 540    | 41.38   |
| 32KV Burewala Old                     | T-2                 | 201512447                             | CHINT CHINA      | 19.10.2016    | 132/11  | 40   | 2008    | 175   | 0:00  | 15.06.20 | 890    | 44.32  | 0           | 890    | 44.32   |
|                                       | T-1                 | HV 1120047                            | PEL PAKISTAN     | 07.01.2013    | 132/11  | 26   | 1305    | 114   | 16:00 | 26.6.20  | 510    | 39.08  | 0           | 510    | 39.08   |
| 32KV Chak 211/W.B.                    | T-2                 | LPK 800973                            | SIEMENS PAKISTAN | 02.08.2010    | 132/11  | 13   | 653     | 57    | 14:30 | 25.6.20  | 240    | 36.75  | 0           | 240    | 36.75   |
|                                       | T-3                 | HV 1100009                            | PEL PAKISTAN     | 19.01.2018    | 132/11  | 26   | 1305    | 114   | 17:00 | 26.6.20  | 580    | 44.44  | 0           | 580    | 44.44   |
| · · · · · · · · · · · · · · · · · · · | T-1                 | HV 1100025                            | PEL PAKISTAN     | 14.10.2010    | 132/11  | 26   | 1305    | 114   | 15.00 | 14.06.20 | 700    | 53.64  | 0           | 700    | 53.64   |
| 32KV Chishtian                        | T-2                 | 198957                                | ELTA POLAND      | 03.02.2007    | 132/11  | 26   | 1305    | 114   | 16.00 | 28.06.20 | 930    | 71.26  | 0           | 930    | 71.26   |
|                                       | T-3                 | T5-96                                 | HEC              | 09-10-2017    | 132/11  | 26   | 1305    | 114   | 17.00 | 27.06.20 | 930    | 71.26  | 0           | 930    | 71.26   |
| 32 KV Chunawala                       | T-1                 | 54LYPT10993                           | LEEEC China      | 12.09.2017    | 132/11  | 26   | 1305    | 114   | 14:00 | 26.06.20 | 225    | 17.24  | 0           | 225    | 17.24   |
|                                       |                     | 1140036                               | PEL Pakistan     | 30.06.2016    | 132/11  | 26   | 1305    | 113.7 | 0:00  | 16.06.20 | 760    | 58.24  | 0           | 760    | 58.2.4  |
| 32KV Chak 83/12-L                     | T-2                 | 1140035                               | PEL Pakistan     | 30.06.2016    | 132/11  | 26   | 1305    | 113.7 | 0:00  | 15.06.20 | 650    | 49.81  | 0           | 650    | 49.81   |
|                                       |                     | 43987                                 | PARSON PEBBLES   | 25.04.1979    | 132/66  | 37.5 | 328     | 164.3 | 0:00  | 0        | 0      | 0.00   | 0           | 0      | 0.00    |
|                                       | T-2                 | LPK10900002                           | SIEMENS          | 31.12.2008    | 132/11  | 40   | 2008    | 175   | 7:12  | 24.06.20 | 1580   | 78.69  | 0           | 1580   | 78.69   |
| 32KV Chichawatni                      | T-3                 | 12105614                              | ASEA             | 20.07.1985    | 132/11  | 26   | 1305    | 113.7 | 0:00  | 23.06.20 | 470    | 36.02  | 0           | 470    | 36.02   |
|                                       | T-4                 | 201512466                             | CHINT CHINA      | 15.10.2016    | 132/11  | 40   | 2008    | 175   | 0:00  | 22.06.20 | 1280   | 63.75  | 0           | 1280   | 63.75   |
|                                       | T-1                 | HV 1140037                            | PEL PAKISTAN     | 22.11.2016    | 132/11  | 26   | 1305    | 114   | 14.00 | 25.06.20 | 380    | 29.12  | 0           | 380    | 29.12   |
| 2KV Dhahran Wala                      | T-2                 | HV 1140038                            | PEL PAKISTAN     | 22.11.2016    | 132/11  | 26   | 1305    | 114   | 15.00 | 25.06.20 | 680    | 52.11  | 0           | 680    | 52.11   |
|                                       | T-1                 | HV1120027                             | PEL PAKISTAN     | 06.09.2012    | 132/11  | 26   | 1305    | 114   | 9:00  | 29.6.20  | 990    | 75.86  | 0           | 990    | 75.86   |
| 32KV Dunya Pur                        | T-2                 | 8230584                               | IRAN TRANSFO     | 13.10.2009    | 132/11  | 26   | 1305    | 114   | 18:30 | 22.6.20  | 910    | 69.73  | 0           | 910    | 69.73   |
|                                       |                     | HV 1150003                            | PEL              | 23.01.2017    | 132/11  | 26   | 1305    | 114   | 15:00 | 22.6.20  | 337    | 25.82  | 0           | 337    | 25.82   |
| 32KV Faqirwali                        | T-2                 | HV 1150002                            | PEL              | 23.01.2017    | 132/11  | 26   | 1305    | 114   | 14:00 | 24.6.20  | 528    | 40.46  | 0           | 528    | 40.46   |
|                                       | T-1                 | HV 1150001                            | PEL              | 28.02.2017    | 132/11  | 26   | 1305    | 114   | 13:00 | 18.6.20  | 760    | 58.24  | 0           | 760    | 58.24   |
| 32KV Fort Abbas                       | T-2                 | HV 1150007                            | PEL              | 28.02.2017    | 132/11  | 26   | 1305    | 114   | 15:00 | 24.6.20  | 340    | 26.05  | 0           | 340    | 26.05   |
|                                       |                     | 8230593                               | IRAN TRANSFO     | 29.05.2014    | 132/11  | 26   | 1305    | 114   | 12:00 | 29.6.20  | 900    | 68.97  | 0           | 900    | 68.97   |
| 32KV Garah More                       | T-2                 | LPK10500025                           | SIEMENS PAKISTAN | 23.05.2013    | 132/11  | 26   | 1305    | 114   | 14:00 | 29.6.20  | 830    | 63.60  | 0           | 830    | 63.60   |
| · · · · · · · · · · · · · · · · · · · | T-1                 | 201512450                             | CHINT China      | 22.12.2016    | 132/11  | 40   | 2008    | 175   | 15:00 | 29.6.20  | 1060   | 52.79  | 0           | 1060   | 52.79   |
| 32KV Haroon Abad                      | T-2                 | 12P1210-2                             | China            | 31.05.2011    | 132/11  | 26   | 1305    | 114   | 15:00 | 29.6.20  | 592    | 45.36  | 0           | 592    | 45.36   |
|                                       | T-3                 | 10500031                              | Siemens Pakistan | 20.04.2006    | 132/11  | 26   | 1305    | 114   | 15:00 | 29.6.20  | 690    | 52.87  | 0           | 690    | 52.87   |
|                                       |                     | 138860                                | ELECTRO PUTERE   | 10.07.1989    | 132/66  | 40   | 350     | 175   | 15.00 | 24.06.20 | 110    | 31.43  | 0           | 110    | 31.43   |
| 32KV Hasil Pur                        | T-2                 | HV 1100025                            | PELPAKISTAN      | 24.08.2010    | 132/11  | 2.6  | 1305    | 114   | 16.00 | 20.06.20 | 970    | 74.33  | 0           | 970    | 74.33   |
|                                       | 1-3                 | HV 1150061                            | PEL              | 14 12 2015    | 132/11  | 40   | 2008    | 175   | 16.00 | 23.06.20 | 1710   | 85.16  | 0           | 1710   | 85.16   |
|                                       | T-1                 | 1150074                               | PEL Pakistan     | 19.01.2016    | 132/11  | 40   | 2008    | 175   | 0:00  | 18.06.20 | 1500   | 74.70  | 0           | 1500   | 74.70   |
| 32KV Harappa                          | T-2                 | LPK10800019                           | SIEMENS          | 25.06.2008    | 132/11  | 26   | 1305    | 1137  | 0.00  | 22.06.20 | 915    | 70.11  | 0           | 915    | 70.11   |
|                                       | T-1                 | 8830262                               | IRAN TRANSFO     | 16 11 2012    | 132/11  | 26   | 1305    | 113.7 | 0.00  | 20.06.20 | • 880  | 67.43  |             | 880    | 67.43   |
| 32KV Head Sidhnai                     | T-2                 | 1 PK 10500026                         | SIEMENS          | 24.01.2012    | 132/11  | 26   | 1305    | 114   | 0.00  | 18.06.20 | 730    | 55.94  | 0           | 730    | 55.94   |
| · · · · · · · · · · · · · · · · · · · | T-1                 | 1100029                               | PEL              | 12 01 2012    | 132/11  | 26   | 1305    | 113.7 | 0:00  | 18.06.20 | 790    | 60.54  | 0           | 790    | 60.54   |
| 32KV Hoota                            | T-2                 | LPK-005816                            | SIEMENS          | 26.04.2016    | 132/11  | 13   | 653     | 57    | 0:00  | 20.06.20 | 520    | 79.63  |             | 520    | 79.63   |
| · · · · · · · · · · · · · · · · · · · | $-\frac{1}{T_{-1}}$ | 830900127                             | TOSHIBA          | 28.11.2012    | 132/11  | 13   | 653     | 57    | 16:30 | 29.6.20  | 460    | 70.44  | $\tilde{0}$ | 460    | 70.44   |
| 32KV Jehanian                         | T-2                 | 138659                                | ELECTRO PLITERE  | 09 07 2000    | 132/11  | 26   | 1305    | 114   | 16.00 | 12.6.20  | 960    | 73.56  |             | 960    | 73.56   |
|                                       | T.3                 | HV1150066                             | PFI              | 04.01.2016    | 132/11  | 40   | 2008    | 175   | 18.00 | 28.6.20  | 1580   | 78.69  |             | 1580   | 78.60   |
|                                       | T_2                 | 1200002                               | PEL              | 09.03.2020    | 132/11  | 40   | 2008    | 175   | 0.00  | 18.06.20 | 1440   | 71 71  |             | 1440   | 71 71   |
|                                       | 1-2                 |                                       |                  | 07.05.2020    | 122/11  |      | 2000    | 175   | 0.00  | 24.06.20 | 1670   | 07 17  | <u>+</u>    | 1670   | 02.1/   |

| ł                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Code |              | ************************************** | Date of           | Voltage   |      | CAPACIT | Ŷ     | МАХ   | IMUM LOA | D RECO | RDED   | Load    | Total/         | Loadi           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------|----------------------------------------|-------------------|-----------|------|---------|-------|-------|----------|--------|--------|---------|----------------|-----------------|
| Name of Grid Station                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.  | Serial No:   | Make                                   | Commissioning     | Ratio     | MVA  | LV      | H.V   | Time  | Date     | Load   | % age. | Shedded | Actual<br>Load | ลรู             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-1  | 8830263      | IranTransfo                            | 08.07.2014        | 132/11KV  | . 26 | 1305    | 114   | 22:00 | 26.06.20 | 926    | 70.96  | 0       | 926            | 70.             |
| 132KV D.G.Khan-II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | T-2  | HV-1120044   | PEL                                    | 22.03.2018        | 132/11KV  | 40   | 2008    | 175   | 22:00 | 22.06.20 | 1365   | 67.98  | 0       | 1365           | 67              |
| 120//2/ 0.11.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T-1  | - 106430     | Ganz                                   | 25.08.2009        | 132/11KV  | 10   | 502     | 43.7  | 22:00 | 20.06.20 | 300    | 59.76  | 0       | 300            | 59.             |
| 132KV Sakhr Sarwar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | T-2  | 108274       | Siemens                                | 23.04.2017        | 132/11K.V | 13   | 653     | 56.9  | 22:00 | 15.06.20 | 130    | 19.91  | 0       | 130            | 19              |
| 132KV Fort Manro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | T-1  | 3633         | Legnano                                | 24.08.2006        | 132/11KV  | 7.5  | 393.    | 85.6  | 22:00 | 10.06.20 | 75     | 19.08  | 0       | 75             | 19              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-1  | 88302        | IranTrans:                             | 14.12.2010        | 132/11KV  | 26   | 1305    | 114   | 22:00 | 26.06.20 | 635    | 48.66  | 0       | 635            | 48              |
| 132KV Kot Chutta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | T-2  | HV-260004    | PEL                                    | 19.09.2007        | 132/11KV  | 26   | 1305    | 114   | 22:00 | 25.06.20 | 440    | 33.72  | 0       | -560           | 42              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-3  | 830900126    | Toshiba                                | 29.08.2017        | 132/11KV  | 13   | 653     | 56.9  | 22:00 | 26.06.20 | 330    | 50.54  | 0       | 330            | 50              |
| 132KV Chotti Zareen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | T-1  | 201708416    | CHINT CHINA                            | 20.03.2019        | 132/11KV  | 26   | 1305    | 114   | 22:00 | 23.06.20 | · 715  | 54.79  | 0       | 715            | 54              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-1  | HV-1090013   | PEL                                    | 16.06.2009        | 132/11K.V | - 26 | 1305    | 114   | 13:00 | 27.06.20 | 650    | 49.81  | 0       | 650            | 49.             |
| 132KV Jam Pur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | T2   | LPK-81700009 | Siemens                                | 26.12.2016        | 132/11KV  | 26   | 1305    | 114   | 22:00 | 19.06.20 | 545    | 41.76  | 0       | 545            | 41              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-1  | 123753       | Elta                                   | 04.06.2012        | 132/11KV  | 13   | 653     | 56.85 | 22:00 | 26.06.20 | 250    | 38.28  | 0       | 250            | 38              |
| 132KV Fazil Pur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-2  | GM95070      | Iran Transfo                           | 09.03.2016        | 132/11KV  | 26   | 1305    | 114   | 22:00 | 27.06.20 | 710    | 54.41  | 0       | 710            | 54              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-1  | 102832       | Elprom                                 | 27.02.2018        | 66/11KV   | 13   | 653     | 113.8 | 22:00 | 26.06.20 | 370    | 56.66  | 0       | 370            | 56              |
| 66KV Dajal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | T-2  | 930384       | China                                  | 22.07.2014        | 66/11KV   | 6.3  | 316     | 55.1  | 22:00 | 26.06.20 | 140    | 44.30  | 0       | 140            | 44              |
| 132KV Jam Pur Dajal Road                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | T-1  | 8830266      | Iran Transfo                           | 11.05.2018        | 132/11KV  | 26   | 1305    | 114   | 12:00 | 27.06.20 | 700    | 53.64  | 0       | 700            | 53              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-1  | HV-1100008   | PEL                                    | 28.04.2010        | 132/11KV  | 26   | 1305    | 114   | 15:00 | 15.06.20 | 850    | 65.13  | 0       | 850            | 65              |
| 132KV Raian Pur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-2  | HV-1100039   | PEL                                    | 15.04.2013        | 132/11KV  | 26   | 1305    | 114   | 15:00 | 09.06.20 | 720    | 55.17  | 0       | 720            | 55              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-3  | 139981       | E/Putere                               | 24-04-2019        | 132/11KV  | 13   | 653     | 56.9  | 22:00 | 17.06.20 | 400    | 61.26  | 0       | 400            | 61              |
| 132KV Roihan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | T-1  | I/H-93571/3  | Meidensha                              | 28.12.2011        | 132/11KV  | 13   | 653     | 56.9  | 22:00 | 27.06.20 | 450    | 68.91  | 0       | 450            | 68              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-1  | 8230592      | IranTrans:                             | 06.07.2017        | 132/11KV  | 26   | 1305    | 114   | 14:00 | 09.06.20 | 780    | 59.77  | 0       | 780            | 59              |
| 132KV S/Lund                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | T-2  | 199983       | E/Putere                               | 31.08.2012        | 132/11KV  | 13   | 653     | 56.9  | 10:00 | 12.06.20 | 165    | 25.27  | 0       | 165            | 25              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-1  | HV-1090008   | PEL                                    | 27.05.2009        | 132/11KV  | 26   | 1305    | 114   | 16:00 | 17.06.20 | 730    | 55.94  | 0       | 730            | 55              |
| 132KV N.A.Wali                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T-2  | 112611       | Elprom                                 | 17.04.2017        | 132/11KV  | 13   | 653     | 56.9  | 14:00 | 28.06.20 | 510    | 78.10  | 0       | 510            | 78              |
| · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | T-1  | 1150011      | PEL                                    | 12.09.2017        | 132/11KV  | 26   | 1305    | 114   | 21:00 | 27.06.20 | 400    | 30.65  | 0       | 400            | 30              |
| 132KV S.S.Din                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | T-2  | HV-1150050   | PEL                                    | 12.09.2017        | 132/11KV  | 26   | 1305    | 114   | 21:00 | 27.06.20 | 510    | 39.08  | 0       | 510            | 39              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-1  | 10400031     | Siemens                                | 02.08.2012        | 132/11KV  | 26   | 1305    | 114   | 15:00 | 15.06.20 | 840    | 64.37  | 0       | 840            | 64              |
| 132KV Tounsa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | T-2  | HV-1110001   | PEL                                    | 02.03.2017        | 132/11KV  | 26   | 1305    | 114   | 15:00 | 18.06.20 | .740   | 56.70  | 0       | 560 -          | 42.             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Т-3  | 12019        | OTE Itely                              | 19.03.2019        | 132/11KV  | 13   | 653     | 56.9  | 22:00 | 15.06.20 | 330    | 50.54  | 0       | .330           | 50.             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-1  | 201512462    | CHINT CHINA                            | 29.10.2016        | 132/11    | 40   | 2008    | 175   | 0:00  | 10.06.20 | 1640   | 81.67  | 0       | 1640           | 81              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | T-2  | LPK 11000004 | SIEMENS                                | 17.12.2009        | 132/11    | 40   | 2008    | 175   | 0:00  | 10.06.20 | 1670   | 83.17  | 0       | 1670           | 83              |
| 132KV Arifwala                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T-3  | 1150062      | PEL                                    | 26.12.2015        | 132/11    | 40   | 2008    | 175   | 0:00  | 24.06.20 | 1600   | 79.68  | 0       | 1600           | 79              |
| 132KV Bati Banglaw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | T-1  | T5-173       | HEC                                    | 05.10.2017        | 132/11    | 26   | 1305    | 114   | 0:00  | 23.06.20 | 580    | 44.44  | 0       | 580            | 44              |
| 122KV Dunce Hevet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | T-1  | 1100010      | PEL Pakistan                           | 25.05.2010        | 132/11    | 26   | 1305    | 113.7 | 0:00  | 17.06.20 | 1040   | 79.69  | 0       | 1040           | 79              |
| i szin v bunga riayat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | T-2  | 1200006      | PEL Pakistan                           | 11.06.2020        | 132/11    | 40   | 2008    | 175   | 0:00  | 22.06.20 | 1050   | 52.29  | 0       | 1050           | 52              |
| <ul> <li>A second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec<br/>second second sec</li></ul> | T-1  | HV 1150064   | PEL PAKISTAN                           | 29.12.2015        | 132/11    | 40   | 2008    | 175   | 14:00 | 15.06.20 | 1030   | 51.29  |         | 1030           | $\frac{1}{51}$  |
| 132KV Bahawal Nagar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | T-2  | 138660       | Electroputere Rumania                  | 31.03.2017        | 132/66    | 40   | 350     | 175   | 0:00  | 0        | 1285   | 0.00   |         | 1285           | 0.              |
| ~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | T_A  | T5-33        | HEC                                    | 26.11.2013        | 132/11    | 26   | 1305    | 114   | 14.00 | 30.6.20  | 1205   | 71.26  |         | 930            | $\frac{03}{71}$ |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1-4  | 10-33        | L net                                  | L20.11.2010<br>Pa | 132/11    | 1 20 | 1505    | 114   | 14.00 | 50.0.20  | 930    | /1.20  |         | 930            | <u> </u>        |

| Name Grieb Suffix<br>ManeChar<br>CommissionDut of<br>CommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommissionCommission <t< th=""><th><b>`</b></th><th></th><th></th><th></th><th></th><th>,</th><th></th><th></th><th>(</th><th></th><th></th><th></th><th></th><th></th><th>¥</th><th></th></t<>                                                                                                                                                                                                                                     | <b>`</b>                               |      |                 |              |               | ,        |      |         | (     |       |           |        |        |         | ¥      |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------|-----------------|--------------|---------------|----------|------|---------|-------|-------|-----------|--------|--------|---------|--------|----------|
| Name of child similariNumNumVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizVizViz<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        | Code | 0.1.11          |              | Date of       | Voltage  | 0    | CAPACIT | Ϋ́    | МАХ   | (IMUM LOA | D RECO | RDED   | Load    | Total/ | Loading% |
| 1.1         IHINTST 5         Medan         18-12-37         132/11KV         20         133         14-30         22.06.20         110         85.06         0         110         85.06         0         110         85.06         0         110         85.06         0         110         85.06         0         110         85.06         0         1330         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2         120.2 </th <th>Name of Grid Station</th> <th>No.</th> <th>Serial No:</th> <th>Make</th> <th>Commissioning</th> <th>Ratio</th> <th>MVA</th> <th>LV</th> <th>H.V</th> <th>Time</th> <th>Date</th> <th>Load</th> <th>% age.</th> <th>Shedded</th> <th>Actual</th> <th>age</th> | Name of Grid Station                   | No.  | Serial No:      | Make         | Commissioning | Ratio    | MVA  | LV      | H.V   | Time  | Date      | Load   | % age. | Shedded | Actual | age      |
| J. D. Wait         T-2         PELLIVISOPO         PEL         252.02         61.27         14.20         15.00         28.00         28.00         87.43         0         48.00         73.31           Klan Bela         1-1         HIPSTST1         Meiken         22.07.88         132711KV         26.135         133.2         21.00         29.06.20         140.0         79.64         0         109.0         73.21           Klan Bela         7-2         75.48         HBC         22.00.21         120.12         20.02.00         490         72.0         6.63.00         6.63.00         6.83.00         6.42.02         72.0         72.0         6.0         9.00         72.03         0         9.00         72.03         0         9.00         72.03         0         1.99.1         72.03         0         1.99.1         72.03         0         1.99.1         72.03         0         1.99.1         72.03         0         1.99.1         72.03         0         1.99.1         72.03         0         1.99.1         72.03         0         1.99.1         72.03         0         1.99.1         72.03         0         1.99.1         72.03         1.99.1         72.03         1.00         72.03         1                                                                                                                                                                                                                                                                                     | ·                                      | T-1  | 1119575 T-5     | Meiden       | 18-12-87      | 132/11KV | 26   | 1305    | 113.7 | 1430  | 27.06.20  | 1110   | 85.06  | 0       | 1110   | 85.06    |
| T-3         FP398         Ella         24 07.19         132/11KV         13         65         67         1200         22.06.20         480         73.51         0.0         480         73.51           Khan Beln         T-2         T5.48         FBIC         220.1218         13271KV         26         1305         113.7         2130         23.002         480         63.20         6         890         64.20         73.3         0.0         490         72.33         0.0         940         72.33         0.0         940         72.33         0.0         940         72.33         0.0         940         72.33         0.0         940         72.33         0.0         940         72.33         0.0         940         72.33         0.0         940         64.24         0.0         940         64.24         0.0         940         64.24         0.0         940         64.24         0.0         940         64.24         0.0         940         64.24         0.0         940         64.20         940         74.3         940.33         940.33         940.33         940.33         940.33         940.33         940.33         940.33         940.40         940.33         940.40         94                                                                                                                                                                                                                                                                                                | J. D. Wali                             | T-2  | PELHV1150070    | PEL          | 25.02.16      | 132/11KV | 26   | 1305    | 113.7 | 1630  | 20.06.20  | 880    | 67.43  | 0       | 880    | 67.43    |
| Kim Ilela         T.J.         High         Particip         Heic         22.07-88         132/11KV         20.5         11.7         21.0         23.06.20         490         69.20         690         68.20           Khan Pur         T.J.         255005         PEL         15/12.07         132/11KV         26         1055         11.4         2100         24.06.20         120         64.24         0         120.8         17.5         1000         72.0         20.55.214.8         Chinc China         21.01-17         132/11KV         40         20.06         17.5         10.00         64.24         0         120.9         64.24         0         120.9         64.24         0         120.9         64.24         0         120.9         64.24         0         120.9         64.24         0         120.9         64.24         0         120.9         64.24         0         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         120.9         <                                                                                                                                                                                                                                                                         |                                        | Т-3  | 179558          | Elta         | 24.07.19      | 132/11KV | 13   | 653     | 56.9  | 1330  | 22.06.20  | 480    | 73.51  | 0       | 480    | 73.51    |
| Kann Bound         Field         HEC         28.02.18         132.11.2V         20.0         11.57         21.00         20.0         20.0         68.20         0         68.20           Khan Pur         T.2         20.0512465         Chan China         25.01.18         132.11.6V         40         20.00         17.5         14.00         24.06.20         49.01         72.3         0         1591         72.3           T.3         20.0512467         China China         21.0-1.71         132.11.6V         40         20.06         17.5         14.00         25.06.20         1501         62.70         62.00         10.6         67.3         0         10.0         67.21         0         10.0         67.21         10.00007         PEL         20.0-0-10         132.11.6V         20.0         11.6         50.0         11.4         1500         21.00         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0                                                                                                                                                                                                                                                                                     | Khon Dala                              | T-1  | 1119575 T-1     | Meiden       | 22-07-88      | 132/11KV | 26   | 1305    | 113.7 | 2130  | 23.06.20  | 1040   | 79.69  | 0       | 1040   | 79.69    |
| T-1         2.800.5         PH.L         15-12-07         1321KV         26         105         114         2100         24.06.00         940         72.0         0.5         1992           T-3         201512467         Chint China         221.011         1321KV         40         208         175         1500         24.06.20         190         64.24         0.         159         67.20           Lingar Par         T-1         1100007         PEL         06-94-10         1321KV         26         130         114         100         25.06.20         810         6.27         6.30         6.27         7.2         106         0.72         0         0.10         67.3           MV Queshia         T-1         1195257-6         Melden         0.50-38         1221KV         26         130         137         130         25.06.20         100         730         25.07         0.0         100         100         730         25.06         100         730         25.06         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100                                                                                                                                                                                                                                                                                                                     | Kitan Dela                             | T-2  | Т5-48           | HEC          | 28.02.18      | 132/11KV | 26   | 1305    | 113.7 | 2130  | 29.06.20  | · 890  | 68.20  | 0       | 890    | 68.20    |
| Khan Pur         T-2         201312448         Chint China         2501.14         13211KV         40         2080         175         1500         24.06.20         159         64.24         0         120         64.24         0         120         64.24         0         1200         64.24         0         1200         64.24         0         1200         64.24         0         1200         64.24         0         120         64.04         0         64.24         0         120         64.04         0         64.21         0         64.24         0         64.24         0         64.24         0         64.24         0         64.24         0         64.24         0         84.04         0         64.24         0         64.24         0         84.04         0         84.04         100         84.05         100         84.05         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100 <td></td> <td>T-1</td> <td>260005</td> <td>PEL</td> <td>15-12-07</td> <td>132/11KV</td> <td>26</td> <td>1305</td> <td>114</td> <td>2100</td> <td>24.06.20</td> <td>940</td> <td>72.03</td> <td>0</td> <td>940</td> <td>72.03</td>                                                                                   |                                        | T-1  | 260005          | PEL          | 15-12-07      | 132/11KV | 26   | 1305    | 114   | 2100  | 24.06.20  | 940    | 72.03  | 0       | 940    | 72.03    |
| T-3         201512467         Chint China         21-01-7         152/11KV         20         807         1400         206.20         120         64.24         0         1200         64.24         0         1200         64.24         0         1200         64.24         0         1200         64.24         0         1200         64.24         0         0         60.7         63.27           Liagat Pur         T-2         1100005         PEL         02.04-10         132/11KV         26         1305         1137         1403         25.06.20         104         75.00         0         104         80.08         0         1045         80.08         0         1045         80.08         0         1047         132/11KV         26         1305         114         100         28.05.07         0         30.3         63.30         114         1100         28.05.07         0         30.3         63.30         114         1100         28.05.07         83.00         63.00         93.00         93.00         93.00         93.00         93.00         93.00         93.00         93.00         93.00         93.00         93.00         93.00         93.00         93.00         93.00         93.00                                                                                                                                                                                                                                                                                               | Khan Pur                               | T-2  | 201512448       | Chint China  | 25.01.18      | 132/11KV | 40   | 2008    | 175   | 1500  | 24.06.20  | 1591   | 79.23  | 0       | 1591   | 79.23    |
| Liagat Puri         T-4         1100007         PEL         20-04-10         132/11KV         26         1305         114         2100         25.06.20         910         69.73         00         69.73           T-1         110053 T-6         Meiden         05-03.48         132/11KV         26         1305         113         1430         25.06.20         1010         7.0         0         8.00         6.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0         7.0                                                                                                                                                                                                                                                                                                                             |                                        | T-3  | 201512467       | Chint China  | 21-01-17      | 132/11KV | - 40 | 2008    | 175   | 1400  | 24.06.20  | 1290   | 64.24  | 0       | 1290   | 64.24    |
| Linger Au         T:2         1100005         PEL         20-04-10         132711KV         26         1305         113.7         1930         27.06.20         81.0         6.0.7         6         81.0         62.07           M W.Qureshins         T:2         PEH/VIG601R         PEL         05.03.86         132711KV         126         1305         113.7         1430         25.06.20         1045         80.08         0         1045         80.08           T:3         98866         Elproun         1912.19         132711KV         16         1305         114         1600         140.62         500         45.21         0         30.0         63.06         100         140.62         500         45.21         0         30.0         45.07         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         53.1         53.1         53.1         141.4100         250.620         160.7         53.41         53.41         53.41         53.41         53.41         53.41         53.41         53.41         53.41         53.41         53.41         53.41         53.41         53.41         53.41         5                                                                                                                                                                                                                                                                                     | Lingot Dur                             | T-1  | 1100007         | PEL .        | 05-05-10      | 132/11KV | 26   | 1305    | 114   | 2100  | 25.06.20  | 910    | 69.73  | 0       | 910    | 69.73    |
| T-1         IIII97571-5         Meiden         0.90-88         132/11KV         26         1305         113.7         1930         25.06.20         1045         80.08         0         1045         80.08           T-2         PELLIV1080018         PEL         03.03.16         132/11KV         12         1305         113.7         1430         25.06.20         1400         79.69         0         1040         79.69         0         1040         79.69         0.0         1040         79.69         0         1040         79.69         0         1040         79.69         0         1040         79.69         0         1040         79.69         0         1040         79.69         0         1040         79.69         0         1040         10.0         1040         100.620         1080         1140         100.20         106.0         100         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         110.0         110.0         110.0         110.0         110.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0 <td< td=""><td>Liagat Fui</td><td>T-2</td><td>1100005</td><td>PEL</td><td>20-04-10</td><td>132/11KV</td><td>26</td><td>1305</td><td>114</td><td>1500</td><td>27.06.20</td><td>810</td><td>62.07</td><td>0</td><td>810</td><td>62.07</td></td<>                                               | Liagat Fui                             | T-2  | 1100005         | PEL          | 20-04-10      | 132/11KV | 26   | 1305    | 114   | 1500  | 27.06.20  | 810    | 62.07  | 0       | 810    | 62.07    |
| M.W. Quresham         T-2         PELHV 008018         PEL         03.03.16         132/11KV         26         133         143         25.05.20         140         79.69         0         140         79.69           T.3         98866         Ellprom         19.12.19         132/11KV         13         653         56.9         2030         12.06.20         340         52.07         0         340         52.07           Mubarak Pur         T.1         PELUV1150066         PEL         13.01.17         132/11KV         26         1305         114         1000         24.06.20         830         63.00         0         830.2         63.61         0         900         73.56         0         900         73.56         0         900         73.56         0         900         73.56         0         900         73.56         0         900         73.56         0         900         73.56         0         900         73.56         0         900         73.56         0         900         73.56         0         900         73.56         0         900         73.56         0         900         73.56         0         1800         92.13         0         180.9 <t< td=""><td></td><td>í-1</td><td>1119575 T-6</td><td>Meiden</td><td>05-03-88</td><td>132/11KV</td><td>26</td><td>1305</td><td>113.7</td><td>1930</td><td>25.06.20</td><td>1045</td><td>80.08</td><td>0</td><td>1045</td><td>80.08</td></t<>                                                                         |                                        | í-1  | 1119575 T-6     | Meiden       | 05-03-88      | 132/11KV | 26   | 1305    | 113.7 | 1930  | 25.06.20  | 1045   | 80.08  | 0       | 1045   | 80.08    |
| T-3         988e6         Elprom         19,12.9         132/11KV         13         653         659         2030         12.06.20         340         52.07         0.0         340         52.07           Mubarak Pur         T-1         PELLIV1150068         PEL         13.01.17         132/11KV         26         1305         114         1600         140.620         300         45.21         0.         830.6         63.60         63.60         63.60         63.60         63.60         63.60         63.60         63.60         63.60         63.60         63.60         63.60         63.60         63.60         63.60         73.56         0.         63.01         73.56         0.         73.56         0.         180         21.18         121/1KV         40         20.08         175         100         13.06.20         180         92.13         180.0         92.13         180.0         92.13         180.0         91.14         130.62.0         180.0         92.14         180.0         91.14         130.14         130.12.0         130.02.0         180.0         92.13         180.0         93.14         93.14         93.14         93.14         93.14         93.14         93.13         93.13         93.13 <td>M.W.Qureshian</td> <td>T-2</td> <td>PELHV1080018</td> <td>PEL</td> <td>03.03.16</td> <td>132/11KV</td> <td>26</td> <td>1305</td> <td>113.7</td> <td>1430</td> <td>25.06.20</td> <td>1040</td> <td>79.69</td> <td>0</td> <td>1040</td> <td>79.69</td>               | M.W.Qureshian                          | T-2  | PELHV1080018    | PEL          | 03.03.16      | 132/11KV | 26   | 1305    | 113.7 | 1430  | 25.06.20  | 1040   | 79.69  | 0       | 1040   | 79.69    |
| Mubarak Puri<br>T-2         PELIVV1150069<br>PEL         PEL         13.01.17         132/1KV         26         1305         114         1600         14.62.0         590         45.21         0.         590         45.21           Nawazabad         T-1         B&B10267         Iraurans%         01.10.2         132/11KV         26         1305         114         1630         24.0620         830         63.00         0.         830         63.60           T-2         IPU9757 T-4         Mciden         21.02.18         132/11KV         26         1305         114         1430         25.02.0         960         73.56         0.         960         73.56         0.         1800         92.13         0.         1800         92.13         0.         1800         92.13         0.         1800         92.13         0.         1800         92.13         0.         1800         92.13         0.         1800         92.13         0.         1800         92.13         0.         1800         92.13         0.         1800         92.13         0.         1800         92.13         0.         1800         92.13         0.         1800         92.13         0.         1800         92.13         0.                                                                                                                                                                                                                                                                                        |                                        | T-3  | 98866           | Elprom       | 19.12.19      | 132/11KV | 13   | 653     | 56.9  | 2030  | 12.06.20  | 340    | 52.07  | 0       | 340    | 52.07    |
| Mubbrik Pur         T-2         PELITYL10068         PEL         13.01.17         132/11KV         26         1305         114         1100         28.06.0         830         63.00         0         830         63.60           Nawazabad         T-2         Hip7557T-4         Meiden         21.0218         122/11KV         26         1305         114         1430         25.05.0         097         53.41         0         697         53.41           T-2         Hip7557T-4         Meiden         21.0218         132/11KV         40         2008         175         1100         13.06.20         1850         92.13         0         1850         92.13           T-2         LPK1000011         Siemens         25.02.09         132/11KV         40         2008         175         1500         13.06.20         1850         92.13         0         1810         90.14         0         40.80         76.5         100         41.00         40.05.20         1800         40.50         1810         41.00         41.00         41.00         41.00         41.00         41.00         41.00         41.00         41.00         41.00         41.00         41.00         41.00         41.00         41.00                                                                                                                                                                                                                                                                                              | Mada and Dara                          | T-1  | PELHV1150069    | PEL          | 13.01.17      | 132/11KV | 26   | 1305    | 114   | 1600  | 14.06.20  | 590    | 45.21  | 0       | 590    | 45.21    |
| Nawazabad         T-1         8830267         Irantransfo         01.10.12         132/1 KV         26         1305         114         1630         24.06.20         697         53.41         0         697         53.41           T-2         11957574         Mciden         21.02.18         132/1 KV         40         2008         175         1100         13.66.20         180         92.13         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         0         960         73.56         76         0         1360         73.56         76.75         76.00         75.56         76.75         76.75         76.75         76.75         76.75         76.75                                                                                                                                                                                                                                                                                                                  | Mudarak Pur                            | T-2  | PELHV1150068    | PEL          | 13.01.17      | 132/11KV | 26   | 1305    | 114   | 1100  | 28.06.20  | · 830  | 63.60  | 0       | 830    | 63.60    |
| Nava2abad         T-2         1119575 T.4         Meiden         21 02.18         132/11KV         26         1305         114         1430         25.06.20         960         73.56         0.0         960         73.56           RAHA         T-1         PELLIV1120051         PEL         22.05.16         132/11KV         40         2008         175         1100         13.60.20         1810         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13         0         1850         92.13 </td <td>Navarah d</td> <td>T-1</td> <td>8830267</td> <td>Irantransfo</td> <td>01.10.12</td> <td>132/11KV</td> <td>26</td> <td>1305</td> <td>114</td> <td>1630</td> <td>24.06.20</td> <td>697</td> <td>53.41</td> <td>0</td> <td>697</td> <td>53.41</td>                                                 | Navarah d                              | T-1  | 8830267         | Irantransfo  | 01.10.12      | 132/11KV | 26   | 1305    | 114   | 1630  | 24.06.20  | 697    | 53.41  | 0       | 697    | 53.41    |
| Rahim Yar Khan.         T-1         PELHV1120051         PEL         22.05.16         132/11KV         40         208         17.5         1100         13.06.20         1850         92.13         0         1850         92.13           Rahim Yar Khan.         T-2         LPK10900011         Siemens         25-02-00         132/11KV         40         2008         175         1400         40.60         1860         92.63         0         1860         92.63         0         1860         92.63         0         1860         92.63         0         1860         92.63         0         1860         92.63         0         1860         92.63         0         1860         92.63         0         1860         92.63         0         1860         92.63         0         1860         92.63         0         1860         92.63         0         18.69         92.63         0         18.69         92.63         0         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         18.69         1                                                                                                                                                                                                                                                                                      | Nawazabad                              | Т-2  | 1H9575 T-4      | Meiden       | 21.02.18      | 132/11KV | 26   | 1305    | 114   | 1430  | 25.06.20  | 960    | 73.56  | 0       | 960    | 73.56    |
| Rahim Yar Khan.         T-2         LPK 1090011         Siemens         25-02-09         132/11KV         40         2008         175         1600         13.06.20         180         90.14         0         180         90.14           T-3         1140009         PEL         11.02.15         132/11KV         40         2008         175         1400         04.02.01         1860         92.63         0         180         90.4         0         180         92.63         0         180         92.63         0         180         92.63         0         180         92.63         0         180         92.63         0         180         92.63         0         180         92.63         0         180         78.69         0         180         78.69         0         180         78.69         0         180         78.69         0         180         78.69         0         180         78.69         0         180         78.69         0         1070         81.99           T-2         KKhon-110000051         Siemens         03-11-0         132/11KV         40         2008         175         1600         27.062.0         1870         93.13         0         1870         <                                                                                                                                                                                                                                                                                                            | ······································ | T-I  | PELHV1120051    | PEL          | 22.05.16      | 132/11KV | 40   | 2008    | 175   | 1100  | 13.06.20  | 1850   | 92.13  | 0       | 1850   | 92.13    |
| Kalinin 1 af Klain.         T-3         1140009         PEL         11.02.15         132/11KV         40         2008         175         1400         04.06.20         1860         92.63         0.         1860         92.63           T-4         -         HEC         30.06.2020         132/11KV         26         1305         114         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td>Dahim Van Khan</td> <td>T-2</td> <td>LPK10900011</td> <td>Siemens</td> <td>25-02-09</td> <td>132/11KV</td> <td>40</td> <td>2008</td> <td>175</td> <td>1500</td> <td>13.06.20</td> <td>1810</td> <td>90.14</td> <td>0</td> <td>1810</td> <td>90.14</td>                                                                                                                                  | Dahim Van Khan                         | T-2  | LPK10900011     | Siemens      | 25-02-09      | 132/11KV | 40   | 2008    | 175   | 1500  | 13.06.20  | 1810   | 90.14  | 0       | 1810   | 90.14    |
| T-4         HEC         30.06.2020         132/11KV         26         1305         114         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -<                                                                                                                                                                                                                                                                                                                                                                                                                     | Kannn far Knan.                        | T-3  | 1140009         | PEL          | 11.02.15      | 132/11KV | 40   | 2008    | 175   | 1400  | 04.06.20  | 1860   | 92.63  | 0       | 1860   | 92.63    |
| R.Y.Khan-II         T-1         201512468         Chint China         31.12.16         132/11KV         40         2008         175         1530         20.06.20         1580         78.69         0         1580         78.69           R.Y.Khan-II         T-2         KPK10900041         PEL         02-09-10         132/11KV         26         1305         114         1430         23.06.20         900         68.97         0         900         68.97           T-3         HIPS75 T.2         Meiden         30.06.17         132/11KV         26         1305         114         1530         27.06.20         1070         81.99         0         1070         81.99           Sadiq Abad         T-2         PELM V1120045         PEL         04.02.13         132/11KV         40         2008         175         1600         27.06.20         1670         83.17         0         1670         83.17           T-3         1800001         Validus         04.03.20         132/11KV         40         2008         175         1600         27.06.20         250         38.28         0         250         38.28           12KV Uch Sharif         T-2         H19359 T-1         Meiden         30.03.18                                                                                                                                                                                                                                                                                                  | •                                      | T-4  | -               | HEC          | 30.06.2020    | 132/11KV | 26   | 1305    | 114   | -     | -         | -      | -      | -       | -      | -        |
| R.Y.Khan-II         T-2         KPK 10900041         PEL         02-09-10         132/11KV         26         130         114         1430         23.06.20         900         68.97         0         900         68.97           T-3         1119575 T.2         Meiden         30.06.17         132/11KV         26         1305         114         1530         27.06.20         1070         81.99         0         1070         81.99           Sadiq Abad         T-1         LPKN011000051         Siemens         03-11-10         132/11KV         40         2008         175         1600         27.06.20         1870         93.13         0         1870         93.13           Sadiq Abad         T-2         PELMV11200051         Siemens         10.07.06         132/11KV         40         2008         175         1600         27.06.20         1870         85.10         1670         85.16           T-2         PELMV11200041         Validus         04.02.01         132/11KV         40         2008         175         1600         27.06.20         1870         3.17         0         1670         3.17           T-2         1H9359 T-1         Meiden         30.03.18         132/11KV         13 <td></td> <td>T-1</td> <td>201512468</td> <td>Chint China</td> <td>31.12.16</td> <td>132/11KV</td> <td>40</td> <td>2008</td> <td>175</td> <td>1530</td> <td>20.06.20</td> <td>1580</td> <td>78.69</td> <td>0</td> <td>1580</td> <td>78.69</td>                                               |                                        | T-1  | 201512468       | Chint China  | 31.12.16      | 132/11KV | 40   | 2008    | 175   | 1530  | 20.06.20  | 1580   | 78.69  | 0       | 1580   | 78.69    |
| T-3         IH9575 T.2         Meiden         30.06.17         132/11KV         26         1305         114         1530         27.06.20         1070         81.99         0         1070         81.99           Sadiq Abad         T-1         LPK NO 11000051         Siemens         03-11-10         132/11KV         40         2008         175         1600         20.06.20         1870         93.13         0         1870         93.13           Sadiq Abad         T-2         PELHV1120045         PEL         04.02.13         132/11KV         40         2008         175         1600         27.06.20         1710         85.16         0         1710         85.16           T-3         11800001         Validus         04.03.20         132/11KV         40         2008         175         1600         27.06.20         1670         83.17         0         187.0         83.17           132KV Uch Sharif         T-1         102571         Meiden         30.03.18         132/11KV         13         653         57         1400         27.06.20         100         0         77.0         59.00         0         77.0         59.00         0         77.0         59.00         0         77.0                                                                                                                                                                                                                                                                                                  | R.Y.Khan-II                            | T-2  | KPK10900041     | PEL          | 02-09-10      | 132/11KV | 26   | 1305    | 114   | 1430  | 23.06.20  | 900    | 68.97  | 0       | -900   | 68.97    |
| Sadiq Abad         T-1         LPK NO 11000051         Siemens         03-11-10         132/11KV         40         2008         175         1600         20.06.20         1870         93.13         0         1870         93.13           Sadiq Abad         T-2         PELHV1120045         PEL         04.02.13         132/11KV         40         2008         175         1500         27.06.20         1710         85.16         0         1710         85.16           T-3         11800001         Validus         04.03.20         132/11KV         40         2008         175         1600         27.06.20         1670         83.17         0         1670         83.17           12XV Uch Sharif         T-1         102571         Siemens         10.07.06         132/11KV         13         653         57         1400         27.06.20         250         38.28         0         250         38.28           132KV Uch Sharif         T-1         205311         Irantrans60         06.06.16         132/11KV         26         1305         114         1700         28.06.20         1040         79.09         0         1040         79.09           132KV Sanjer Pur         T-1         20108417         C                                                                                                                                                                                                                                                                                           |                                        | T-3  | 1H9575 T.2      | Meiden       | 30.06.17      | 132/11KV | 26   | 1305    | 114   | 1530  | 27.06.20  | 1070   | 81.99  | 0       | 1070   | 81.99    |
| Sadiq Abad         T-2         PELHV1120045         PEL         04.02.13         132/11KV         40         2008         175         1500         27.06.20         1710         85.16         0         1710         85.16           T-3         11800001         Validus         04.03.20         132/11KV         40         2008         175         1600         27.06.20         1670         83.17         0         1670         83.17           132KV Uch Sharif         T-2         1H9359 T-1         Meiden         30.03.18         132/11KV         13         653         57         1400         27.06.20         390         59.72         0         390         59.72           T-3         8530341         Irantransfo         06.06.16         132/11KV         26         1305         114         1700         28.06.20         770         59.00         0         770         59.00         0         770         59.00         0         770         59.00         0         770         59.00         0         700         59.00         0         700         59.00         0         700         59.00         0         700         59.00         0         700         59.00         0         700 <td></td> <td>T-1</td> <td>LPK NO 11000051</td> <td>Siemens</td> <td>03-11-10</td> <td>132/11KV</td> <td>40</td> <td>2008</td> <td>175</td> <td>1600</td> <td>20.06.20</td> <td>·1870</td> <td>93.13</td> <td>0</td> <td>1870</td> <td>93.13</td>                                                        |                                        | T-1  | LPK NO 11000051 | Siemens      | 03-11-10      | 132/11KV | 40   | 2008    | 175   | 1600  | 20.06.20  | ·1870  | 93.13  | 0       | 1870   | 93.13    |
| T-3         1180001         Validus         04.03.20         132/11KV         40         2008         175         1600         27.06.20         1670         83.17         0         1670         83.17           I32KV Uch Sharif         T-1         102571         Siemens         10.07.06         132/11KV         13         653         57         1400         27.06.20         250         38.28         0         250         38.28         0         59.72         0         390         59.72         0         390         59.72         0         390         59.72         0         390         59.72         0         390         59.72         0         390         59.72         0         390         59.72         0         390         59.72         0         390         59.72         0         390         59.72         0         160         70.9         0         1040         79.69         0         1040         79.69         0         1040         79.69         0         1040         79.69         0         1040         79.69         0         1040         79.69         0         1040         79.69         0         1040         79.69         0         106         121                                                                                                                                                                                                                                                                                                                 | Sadiq Abad                             | T-2  | PELHV1120045    | PEL          | 04.02.13      | 132/11KV | 40   | 2008    | 175   | 1500  | 27.06.20  | 1710   | 85.16  | 0       | 1710   | 85.16    |
| T-1         102571         Siemens         10.07.06         132/11KV         13         653         57         1400         27.06.20         250         38.28         0         250         38.28           132KV Uch Sharif         T-2         1H9359 T-1         Meiden         30.03.18         132/11KV         13         653         57         1700         16.06.20         390         59.72         0         390         59.72           T-3         8530341         Irantransfo         06.06.16         132/11KV         26         1305         114         1700         28.06.20         770         59.00         0         770         59.00           132KV Sanjer Pur         T-1         201708417         Chint China         19.12.18         132/11KV         26         1305         114         1230         24.06.20         1040         79.69         0         1040         79.69           132KV Head Rajkan         T-1         -         Electroputer         03.03.20         132/11KV         13         653         57         1300         27.06.20         420         32.18         0         420         32.18           132KV Head Rajkan         T-1         89196         Elprom         02-03-78 <td></td> <td>T-3</td> <td>11800001</td> <td>Validus</td> <td>04.03.20</td> <td>132/11KV</td> <td>40</td> <td>2008</td> <td>175</td> <td>1600</td> <td>27.06.20</td> <td>1670</td> <td>83.17</td> <td>0</td> <td>1670</td> <td>83.17</td>                                                    |                                        | T-3  | 11800001        | Validus      | 04.03.20      | 132/11KV | 40   | 2008    | 175   | 1600  | 27.06.20  | 1670   | 83.17  | 0       | 1670   | 83.17    |
| 132KV Uch Sharif         T-2         1H9359 T-1         Meiden         30.03.18         132/11KV         13         653         57         1700         16.06.20         390         59.72         0         390         59.72           T-3         8530341         Irantransfo         06.06.16         132/11KV         26         1305         114         1700         28.06.20         770         59.00         0         770         59.00           132KV Sanjer Pur         T-1         201708417         Chint China         19.12.18         132/11KV         26         1305         114         1230         24.06.20         1040         79.69         0         1040         79.69           132KV Head Rajkan         T-1         -         Electroputer         03.10.19         132/11KV         13         653         57         1300         27.06.20         165         25.27         0         165         25.27           132KV Head Rajkan         T-1         89196         Elprom         02-03-78         66/11KV         13         653         114         2300         27.06.20         420         32.18         0         420         32.18           66 KV Uch Sharif         T-1         138661         E/                                                                                                                                                                                                                                                                                           |                                        | T-1  | 102571          | Siemens      | 10.07.06      | 132/11KV | 13   | 653     | 57    | 1400  | 27.06.20  | 250    | 38.28  | 0       | 250    | 38.28    |
| T-3       8530341       Irantransfo       06.06.16       132/11KV       26       1305       114       1700       28.06.20       770       59.00       0       770       59.00         132KV Sanjer Pur       T-1       201708417       Chint China       19.12.18       132/11KV       26       1305       114       1230       24.06.20       1040       79.69       0       1040       79.69         132KV Bead Rajkan       T-1       C-1       Electroputer       03.10.19       132/11KV       26       1305       114       2300       27.06.20       165       25.27       0       165       25.27         132KV Head Rajkan       T-1       89196       Elprom       02-03-78       66/11KV       13       653       114       2300       27.06.20       420       32.18       0       420       32.18         66 KV Uch Sharif       T-2       89196       Elprom       09.10.17       66/11KV       13       653       13.6       1700       23.06.20       360       55.13       0       360       55.13         132KV D.G.Khan-I       T-1       138661       E/Putere       08.07.1989       132/6KV       40       350       175       23.00       26.06.20                                                                                                                                                                                                                                                                                                                                                                  | 132KV Uch Sharif                       | T-2  | 1H9359 T-1      | Meiden       | 30.03.18      | 132/11KV | 13   | 653     | 57    | 1700  | 16.06.20  | 390    | 59.72  | 0       | 390    | 59.72    |
| 132KV Sanjer Pur       T-1       201708417       Chint China       19.12.18       132/11KV       26       1305       114       1230       24.06.20       1040       79.69       0       1040       79.69         132KV Head Rajkan       T-1       -       Electroputer       03.10.19       132/11KV       13       653       57       1300       27.06.20       165       25.27       0       165       25.27         132KV Head Rajkan       T-2       158244       Elta       03.03.20       132/11KV       26       1305       114       2300       27.06.20       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       32.18       0       420       <                                                                                                                                                                                                                                                                                                                                                                                            |                                        | T-3  | 8530341         | Irantransfo  | 06.06.16      | 132/11KV | 26   | 1305    | 114   | 1700  | 28.06.20  | 770    | 59.00  | 0       | 770    | 59.00    |
| 132KV Head Rajkan       T-1       -       Electroputer       03.10.19       132/11KV       13       653       57       1300       27.06.20       165       25.27       0       165       25.27         T-2       158244       Elta       03.03.20       132/11KV       26       1305       114       2300       27.06.20       420       32.18       0       420       32.18         66 KV Uch Sharif       T-1       89196       Elprom       02-03-78       66/11KV       13       653       113.6       1700       23.06.20       360       55.13       0       360       55.13         T-2       89194       Elprom       09.10.17       66/11KV       13       653       43.8       1400       28.06.20       410       62.79       0       410       62.79         T-1       138661       E/Putere       08.07.1989       132/6KV       40       350       175       23:00       26.06.20       80       22.86       0       80       22.86         T-2       135278       Ganz       15.04.1989       132/11KV       26       1305       114       15:00       16.06.20       965       73.95       0       965       73.95      <                                                                                                                                                                                                                                                                                                                                                                                                  | 132KV Sanjer Pur                       | T-1  | 201708417       | Chint China  | 19.12.18      | 132/11KV | 26   | 1305    | 114   | 1230  | 24.06.20  | 1040   | 79.69  | 0       | 1040   | 79.69    |
| T-2         158244         Elta         03.03.20         132/1KV         26         1305         114         2300         27.06.20         420         32.18         0         420         32.18           66 KV Uch Sharif         T-1         89196         Elprom         02-03-78         66/11KV         13         653         113.6         1700         23.06.20         360         55.13         0         360         55.13           7-2         89194         Elprom         09.10.17         66/11KV         13         653         43.8         1400         28.06.20         410         62.79         0         410         62.79           7-1         138661         E/Putere         08.07.1989         132/6KV         40         350         175         23:00         26.06.20         80         22.86         0         80         22.86           7-2         135278         Ganz         15.04.1989         132/11KV         26         1305         114         15:00         16.06.20         965         73.95         0         965         73.95           132KV D.G.Khan-I         T-4         LPK-10900053         Siemens         19.11.2009         132/11KV         26         1305         <                                                                                                                                                                                                                                                                                                         | 122/// 11. 10. 1                       | T-1  | -               | Electroputer | 03.10.19      | 132/11KV | 13   | 653     | 57    | 1300  | 27.06.20  | 165    | 25.27  | 0       | 165    | 25.27    |
| 66 KV Uch Sharif         T-1         89196         Elprom         02-03-78         66/11KV         13         653         113.6         1700         23.06.20         360         55.13         0         360         55.13           T-2         89194         Elprom         09.10.17         66/11KV         13         653         43.8         1400         28.06.20         410         62.79         0         410         62.79           T-2         89194         Elprom         09.10.17         66/11KV         13         653         43.8         1400         28.06.20         410         62.79         0         410         62.79           T-1         138661         E/Putere         08.07.1989         132/66KV         40         350         175         23:00         26.06.20         80         22.86         0         80         22.86           T-2         135278         Ganz         15.04.1989         132/11KV         26         1305         114         15:00         16.06.20         965         73.95         0         965         73.95           T-3         LPK-10900053         Siemens         19.11.2009         132/11KV         40         2008         175         22:00 <td>132KV Head Rajkan</td> <td>T-2</td> <td>158244</td> <td>Elta</td> <td>03.03.20</td> <td>132/11KV</td> <td>26</td> <td>1305</td> <td>114</td> <td>2300</td> <td>27.06.20</td> <td>420</td> <td>32.18</td> <td>0</td> <td>420</td> <td>32.18</td>                                                            | 132KV Head Rajkan                      | T-2  | 158244          | Elta         | 03.03.20      | 132/11KV | 26   | 1305    | 114   | 2300  | 27.06.20  | 420    | 32.18  | 0       | 420    | 32.18    |
| T-2         89194         Elprom         09.10.17         66/11KV         13         653         43.8         1400         28.06.20         410         62.79         0         410         62.79           132KV D.G.Khan-I         T-1         138661         E/Putere         08.07.1989         132/6KV         40         350         175         23:00         26.06.20         80         22.86         0         80         22.86           T-2         135278         Ganz         15.04.1989         132/11KV         26         1305         114         15:00         16.06.20         965         73.95         0         965         73.95           T-3         LPK-10900053         Siemens         19.11.2009         132/11KV         40         2008         175         22:00         27.06.20         1310         65.24         0         1310         65.24           T-4         LPK-11200007         Siemens         10.07.2012         132/11KV         40         2008         175         22:00         27.06.20         1200         59.76         0         1200         59.76                                                                                                                                                                                                                                                                                                                                                                                                                               | CC WM Hat OL and                       | T-1  | 89196           | Elprom       | 02-03-78      | 66/11KV  | 13   | 653     | 113.6 | 1700  | 23.06.20  | 360    | 55.13  | 0       | 360    | 55.13    |
| T-1         138661         E/Putere         08.07.1989         132/66KV         40         350         175         23:00         26.06.20         80         22.86         0         80         22.86           T-2         135278         Ganz         15.04.1989         132/11KV         26         1305         114         15:00         16.06.20         965         73.95         0         965         73.95           T-3         LPK-10900053         Siemens         19.11.2009         132/11KV         40         2008         175         22:00         27.06.20         1310         65.24         0         1310         65.24           T-4         LPK-11200007         Siemens         10.07.2012         132/11KV         40         2008         175         22:00         27.06.20         1200         59.76         0         1200         59.76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | oo K v Uen Sharif                      | T-2  | 89194           | Elprom       | 09.10.17      | 66/11KV  | 13   | 653     | 43.8  | 1400  | 28.06.20  | · 410  | 62.79  | 0       | 410    | 62.79    |
| T-2         135278         Ganz         15.04.1989         132/11KV         26         1305         114         15:00         16.06.20         965         73.95         0         965         73.95           T-3         LPK-10900053         Siemens         19.11.2009         132/11KV         40         2008         175         22:00         27.06.20         1310         65.24         0         1310         65.24           T-4         LPK-11200007         Siemens         10.07.2012         132/11KV         40         2008         175         22:00         27.06.20         1200         59.76         0         1200         59.76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | · · · · · · · · · · · · · · · · · · ·  | T-1  | 138661          | E/Putere     | 08.07.1989    | 132/66KV | 40   | 350     | 175   | 23:00 | 26.06.20  | 80     | 22.86  | 0       | 80     | 22.86    |
| T-3         LPK-10900053         Siemens         19.11.2009         132/11KV         40         2008         175         22:00         27.06.20         1310         65.24         0         1310         65.24           T-4         LPK-11200007         Siemens         10.07.2012         132/11KV         40         2008         175         22:00         27.06.20         1310         65.24         0         1310         65.24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                        | T-2  | 135278          | Ganz         | 15.04.1989    | 132/11KV | 26   | 1305    | 114   | 15:00 | 16.06.20  | 965    | 73.95  | 0       | 965    | 73.95    |
| T-4 LPK-11200007 Siemens 10.07.2012 132/11KV 40 2008 175 22:00 27.06.20 1200 59.76 0 1200 59.76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 132KV D.G.Khan-I                       | T-3  | LPK-10900053    | Siemens      | 19.11.2009    | 132/11KV | 40   | 2008    | 175   | 22:00 | 27.06.20  | 1310   | 65.24  | 0       | 1310   | 65.24    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        | T-4  | LPK-11200007    | Siemens      | 10.07.2012    | 132/11KV | 40   | 2008    | 175   | 22:00 | 27.06.20  | 1200   | 59.76  | 0       | 1200   | 59.76    |

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| Name of Grid Station                                                                                                                                                                                                                                                                                                                                                                          | Code       | Serial No:   | Make         | Date of       | Voltage       |      | APACII | Y                 | MAX   | IMUM LOA | D RECO | KDED   | Load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Actu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|--------------|---------------|---------------|------|--------|-------------------|-------|----------|--------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                               | No.        |              |              | Commissioning | Ratio         | MVA  | LV     | H.V               | Time  | Date     | Load   | % age. | Shedded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                   | Т-2        | 201512443    | Chint        | 27.02.2017    | 132/11KV      | 40   | 2008   | 175               | 15.00 | 25.06.20 | 1230   | 61.25  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1230                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 132KV D/Wala                                                                                                                                                                                                                                                                                                                                                                                  | T-1        | 14029        | Energo       | 11.05.1970    | 132/11KV      | 10   | 502    | 43.7              | 21.00 | 15.06.20 | .300   | 59.76  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                               | T-2        | 8830264      | Iran Transfo | 16.03.2016    | 132/11KV      | 26   | 1305   | 114               | 21.00 | 27.06.20 | 1020   | 78.16  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                         | T-1        | 10700037     | Siemens      | 07.02.2017    | 132/11KV      | 26   | 1305   | 114               | 14.00 | 15.06.20 | 940    | 72.03  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 940                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Name of Grid Station         132KV D/Wala         132KV Fateh Pur         132KV Gujrat         132KV Gujrat         132KV Karor         132KV Kot Addu         132KV Layyah         132KV M/Garh         132KV M/Garh         132KV Kot Sultan         66KV Nawan Kot | T-2        | 009567       | Siemens      | 13.04.2015    | 132/11KV      | 13   | 653    | 56.9              | 15.00 | 17.06.20 | 520    | 79.63  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 520                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                               | T-3        | -            | -            | 24.10.2019    | 132/11KV      | 13   | 653    | 56.9              | -     | -        | -      | -      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                               | T-1        | HV-260003    | PEL          | 04.09.2007    | 132/11KV      | 26   | 1305   | 114               | 21.00 | 26.06.20 | 820    | 62.84  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 820                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 132KV Gujrat                                                                                                                                                                                                                                                                                                                                                                                  | T-2        | LPK-10300010 | Siemens      | 08.05.2017    | 132/11KV      | . 26 | 1305   | 114               | 21.00 | 27.06.20 | 1010   | 77.39  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                               | T-3        | 178138       | Elprom       | 02.07.2019    | 132/11KV      | 13   | 653    | 56.9              | 21.00 | 26.06.20 | 300    | 45.94  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 120KW Lattai                                                                                                                                                                                                                                                                                                                                                                                  | T-1        | 14030        | Energo       | 11.05.1970    | 132/11KV      | 10   | 502    | 43.7              | 21.00 | 15.06.20 | 450    | 89.64  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 132KV Jattor                                                                                                                                                                                                                                                                                                                                                                                  | Т-2        | 198960       | ELTA         | 25.04.2013    | 132/11KV      | 26   | 1305   | 114               | 15.00 | 16.06.20 | 850    | 65.13  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 132KV Karor                                                                                                                                                                                                                                                                                                                                                                                   | T-1        | HV-1170026   | PEL          | 15.11.2019    | 132/11KV      | 26   | 1305   | 114               | 14.00 | 17.06.20 | · 790  | 60.54  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 790                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                               | T-2        | HV-1170028   | PEL          | 15.11.2019    | 132/11KV      | 26   | 1305   | 114               | 14.00 | 28.06.20 | 860    | 65.90  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 860                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 132KV Khan Garh                                                                                                                                                                                                                                                                                                                                                                               | T-1        | 112619       | Elprom       | 12.04.2000    | 132/11KV      | 13   | 653    | 56.9              | 21.00 | 26.06.20 | 530    | 81.16  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                               | <u> </u>   | -            | Siemens      | 26.03.2013    | 132/11KV      | 13   | 653    | 56.9              | 16.00 | 29.06.20 | 350    | 53.60  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 132KV K.P.Sadat                                                                                                                                                                                                                                                                                                                                                                               | <u>T-1</u> | 99B10298     | Shenbian     | 19.05.2014    | 132/11KV      | 26   | 1305   | 144               | 14.00 | 20.06.20 | 540    | 41.38  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 540                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                         | <u> </u>   | 14027        | Energo       | 09.03.2018    | 132/11KV      | 10   | 250    | 43.7              | 13.00 | 11.06.20 | 140    | 27.89  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                               |            | 140030       | E/Putere     | 19.03.1994    | 132/00KV      | 40   | 330    | 114               | 15.00 | 18.00.20 | 250    | 76.62  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 132KV Kot Addu                                                                                                                                                                                                                                                                                                                                                                                | T 4        | T5-05        | HEC          | 14 04 2015    | 132/11KV      | 20   | 1305   | $\frac{114}{114}$ | 13.00 | 26.06.20 | 960    | 73.56  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 060                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| : · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                       | T-5        | 201708421    | Chint        | 09.08.2018    | 132/11KV      | 40   | 2008   | 175               | 22.00 | 26.06.20 | 1200   | 59.76  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <u></u>                                                                                                                                                                                                                                                                                                                                                                                       |            | HV-11200421  | PEL          | 20.12.2012    | 132/11KV      | 26   | 1305   | 114               | 15.00 | 27.06.20 | 780    | 59.77  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 780                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                         | T-2        | 75-97        | HEC          | 30.01.2008    | 132/11KV      | 26   | 1305   | 114               | 14.00 | 16.06.20 | · 730  | 55.94  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 730                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 132KV Layyah                                                                                                                                                                                                                                                                                                                                                                                  | T-3        | 111999       | Elprom       | 01.02.2018    | 132/1,1KV     | 26   | 1305   | 114               | 22.00 | 16.06.20 | 910    | 69.73  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 910                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                               | T-4        | -            | Pauwels      | 01.02.2018    | 132/66KV      | 37.5 | 328    | 164               | 0.00  | 0        | 0      | 0.00   | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                               | T-1        | LPK-11100009 | Siemens      | 27.07.2016    | 132/11KV      | 40   | 2008   | 175               | 16.30 | 17.06.20 | 1570   | 78.19  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | dded         Laa           0         123           0         300           0         102           0         940           0         520           0         520           0         520           0         101           0         300           0         101           0         300           0         101           0         300           0         101           0         300           0         450           0         450           0         530           0         530           0         530           0         530           0         540           0         530           0         120           0         730           0         120           0         126           0         102           0         126           0         100           0         400           0         400           0         400           0 |
| 132KV M/Garh                                                                                                                                                                                                                                                                                                                                                                                  | T-2        | LPK-11200012 | Siemens      | 18.06.2012    | 132/11KV      | 40   | 2008   | 175               | 16.00 | 18.06.20 | 1260   | 62.75  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                               | T-3        | HV-1140007   | PEL          | 06.09.2014    | 132/11KV      | 40   | 2008   | 175               | 14.00 | 18.06.20 | 1020   | 50.80  | 0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0 | 1020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                         | T-1        | HV-1100023   | PEL          | 28.03.2016    | 132/11KV      | 26   | 1305   | 114               | 20.00 | 27.06.20 | 980    | 75.10  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 980                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 132KV M/Khas                                                                                                                                                                                                                                                                                                                                                                                  | T-2        | HV-1090016   | PEL          | 16.07.2009    | 132/11KV      | 26   | 1305   | 114               | 21.00 | 27.06.20 | 940    | 72.03  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 940                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| •                                                                                                                                                                                                                                                                                                                                                                                             | T-3        | -            | BBC          | 10.10.2019    | 132/11KV      | 13   | 653    | 56.9              | 21.00 | 23.06.20 | 400    | 61.26  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                               | T-1        |              | Elprom       | 08.07.2013    | 66/11KV       | 13   | 653    | 113.8             | 15.00 | 20.06.20 | 470    | 71.98  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 66KV Kot Sultan                                                                                                                                                                                                                                                                                                                                                                               | T-2        | 102836       | Elprom       | 29.01.2018    | 66/11KV       | 13   | 653    | 113.8             | 14.00 | 22.06.20 | . 480  | 73.51  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 480                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 66KV Nawan Kot                                                                                                                                                                                                                                                                                                                                                                                | T-1        | 38179        | Marali       | 07.01.1987    | 66/11KV       | 5    | 262    | 43.7              | 12.00 | 09.06.20 | 100    | 38.17  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 66K V Rang Pur                                                                                                                                                                                                                                                                                                                                                                                | T-1        | OEL-6261     | OEL Legnano  | 25.04.2018    | 66/11KV       | 14   | 703    | 113.8             | 11.00 | 11.06.20 | 460    | 65.43  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 460                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                               |            | 140638       | E/Putre      | 17-11-93      | 132/66KV      | 40   | 349    | 175               | 1400  | 27.06.20 | 122    | 34.96  | . 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                               | T-2        | 198956       | Elta         | 17-08-09      | 132/11KV      | 26   | 1305   | 113.7             | 1300  | 15.06.20 | 810    | 62.07  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 810                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Ahmed Pur East.                                                                                                                                                                                                                                                                                                                                                                               | T-3        | PELHV1150067 | PEL          | 14.02.16      | 132/11KV      | 40   | 2008   | 175               | 1600  | 28.06.20 | 940    | 46.81  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 940                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                               | T-4        | 138859       | E/Putre      | 16.05.17      | 132/11KV      | 26   | 1305   | 114               | 1000  | 28.06.20 | 860    | 65.90  | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 860                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                               | T_1        | LPK108270    | Siemens      | 30-12-02      | 132/11KV      | 13   | 653    | 56.9              | 2130  | 29.06.20 | 535    | 81.93  | <u> </u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 535                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Feroza                                                                                                                                                                                                                                                                                                                                                                                        |            | 125572       | Elto -       | 15 10 12      | 132/11KV      | 12   | 652    | 56.0              | 1520  | 11.06.20 | 425    | 65.08  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ······································                                                                                                                                                                                                                                                                                                                                                        | 1-2        | 123375       |              | Pa            | ge' 3-6t 8- V | 1 13 |        | 1 30.9            | 1220  |          | 425    | 05.00  | L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 423                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                                        |       |                 | 3             |               | 2        |      |         |       | )     |          |        |        |         | j.     | آلي-     |
|----------------------------------------|-------|-----------------|---------------|---------------|----------|------|---------|-------|-------|----------|--------|--------|---------|--------|----------|
| × N. 60 1104-41-                       | Code  | G               | h. h.         | Date of       | Voltage  | · (  | CAPACIT | Υ     | МАХ   | IMUM LOA | D RECO | RDED   | Load    | Total/ | Loading% |
| Name of Grid Station                   | No.   | Serial No:      | Make          | Commissioning | Ratio    | MVA  | LV      | H.V   | Time  | Date     | Load   | % age. | Shedded | Actual | age      |
|                                        | T-1   | 201512457       | Chint China   | 23.04.17      | 132/11KV | 40   | 2008    | 113.7 | 12:00 | 27.06.20 | 1380   | 68.73  | 0       | 1380   | 68.73    |
| 132KV Mesco Multan.                    | T-2   | LPK10800015     | Siemens       | 18-08-06      | 132/11KV | 40   | 2008    | 175   | 15:00 | 20.06.20 | 1540   | 76.69  | 0       | 1540   | 76.69    |
|                                        | T-3   | PELHV1150063    | PEL           | 16.12.15      | 132/11KV | 40   | 2008    | 175   | 12:00 | 29.06.20 | 1400   | 69.72  | 0       | 1400   | 69.72    |
| •                                      | T-1   | N/A             | HEC           | 20.05.15      | 132/11KV | 13   | 653     | 56.9  | 15:00 | 10.06.20 | 470    | 71.98  | 0       | 470    | 71.98    |
| 132KV Maan Kot                         | T-2   | T4-17           | HEC           | 01.05.18      | 132/11KV | 13   | 653     | 56.9  | 16:00 | 10.06.20 | 505    | 77.34  | 0       | 505    | 77.34    |
|                                        | T-3   |                 | BBC           | 13.01.20      | 132/11KV | 13   | 653     | 56.9  | 16:00 | 11.06.20 | 425    | 65.08  | 0       | 425    | 65.08    |
|                                        | T-1   | PELHV1170035    | PEL           | 17.06.19      | 132/11KV | 26   | 1305    | 113.7 | 16:00 | 18.06.20 | 800    | 61.30  | 0       | 800    | 61.30    |
| 132KV Marrot                           | T-2   | PELHV1170034    | PEL           | 20.06.19      | 132/11KV | 26   | 1305    | 114   | 17:00 | 18.06.20 | · 740  | 56.70  | 0       | 740    | 56.70    |
|                                        | T-1   | 54LYPT10881-1   | LEEEC         | 09.07.15      | 132/11KV | 26   | 1305    | 113.7 | 18:00 | 24.06.20 | 490    | 37.55  | 0       | 490    | 37.55    |
| 132K V Miran Pur                       | Т-2   | 54LYPT10881-2   | LEEEC         | 09.07.15      | 132/11KV | 26   | 1305    | 113.7 | 13:00 | 24.06.20 | 600    | 45.98  | 0       | 600    | 45.98    |
|                                        | T-1   | PELHV1160058    | PEL           | 19.07.18      | 132/11KV | 26   | 1305    | 114   | 13:00 | 19.06.20 | 409    | 31.34  | 0       | 409    | 31.34    |
| 132KV PGHS Multan                      | T-2   | PELHV1170007    | PEL           | 19.07.18      | 132/11KV | 26   | 1305    | 114   | 12:00 | 16.06.20 | 391    | 29.96  | 0       | 391    | 29.96    |
|                                        | T-1   | 201708420       | Chint China   | 19.07.18      | 132/11KV | 40   | 2008    | 175   | 17:00 | 23.06.20 | 1440   | 71.71  | 0       | 1440   | 71.71    |
| 132KV Qasim Pur Multan                 | T-2   | 201512465       | Chint China   | 25.02.17      | 132/11KV | 40   | 2008    | 175   | 16:00 | 27.06.20 | 1530   | 76.20  | 0       | 1530   | 76.20    |
|                                        | T-3   | LPK NO.11000014 | Siemens       | 29-03-10      | 132/11KV | 40   | 2008    | 175   | 16:00 | 28.06.20 | 1560   | 77.69  | 0       | 1560   | 77.69    |
|                                        | T-1   | LPK11100012     | Siemens       | 19-06-12      | 132/11KV | 26   | 1305    | 113.7 | 16:00 | 28.06.20 | 730    | 55.94  | 0       | 730    | 55.94    |
| 132KV Qasim Bagh Multan                | T-2   | 201512459       | Chint China   | 06-02.17      | 132/11KV | 40   | 2008    | 175   | 16:00 | 24.06.20 | 1000   | 49.80  | 0       | 1000   | 49.80    |
|                                        | T-1   | T 5-175         | HEC           | 02.04.13      | 132/11KV | 26   | 1305    | 113.7 | 11:00 | 12.06.20 | · 895  | 68.58  | 0       | 895    | 68.58    |
| 132KV Samma Satta.                     | T-2   | PELHV1100011    | PEL           | 20-08-11      | 132/11KV | 26   | 1305    | 114   | 18:00 | 16.06.20 | 660    | 50.57  | 0       | 660    | 50.57    |
|                                        | T-1   | 201512474       | Chint China   | 22.03.17      | 132/11KV | 40   | 2008    | 175   | 17:00 | 29.06.20 | 1514   | 75.40  | 0       | 1514   | 75.40    |
| 132KV Shujabad                         | T-2   | 1080006         | PEL           | 20.08.07      | 132/11KV | 26   | 1305    | 114   | 17:00 | 29.06.20 | 1052   | 80.61  | 0       | 1052   | 80.61    |
| -                                      | T-3   | 260002          | PEL           | 26.02.15      | 132/11KV | 26   | 1305    | 114   | 20:00 | 27.06.20 | 670    | 51.34  | 0       | 670    | 51.34    |
| 132KV Suraj Miani                      | T-1   | 11100002        | Siemens       | 30.07.18      | 132/11KV | 26   | 1305    | 114   | 15:00 | 27.06.20 | 1290   | 98.85  | 0       | 1290   | 98.85    |
| ······································ | T-1   | 208401729       | Chint China   | 27.08.19      | 132/11KV | 40   | 2008    | 175   | 16:00 | 16.06.20 | 1640   | 81.67  | 0       | 1640   | 81.67    |
| 132KV Vehari Road Multan               | T-2   | LPK10900041     | Siemens       | 05-07-12      | 132/11KV | 40   | 2008    | 175   | 17:00 | 25.06.20 | 1560   | 77.69  | 0       | 1560   | 77.69    |
|                                        | T-3   | 201512461       | Chint China   | 17.05.17      | 132/11KV | 40   | 2008    | 175   | 15:00 | 16.06.20 | 1640   | 81.67  | 0       | 1640   | 81.67    |
|                                        | T-1   | 201708428       | Chint China   | 02.07.18      | 132/11KV | 40   | 2008    | 175   | 24:00 | 27.06.20 | 1420   | 70.72  | 0       | 1420   | 70.72    |
| 132KV Wapda Town Multan                | T-2   | 11100004        | Siemens       | 26.06.11      | 132/11KV | 26   | 1305    | 113.7 | 23:00 | 27.06.20 | · 805  | 61.69  | 0 ·     | 805    | 61.69    |
|                                        | 1-3   | 12P210-4        | China         | 23.05.16      | 132/11KV | 26   | 1305    | 113.7 | 15:00 | 23.06.20 | 1000   | 76.63  | 0       | 1000   | 76.63    |
|                                        | T-1   | PELHV1090002    | PEL           | 31.01.18      | 132/11KV | 26   | 1305    | 113.7 | 15:00 | 27.06.20 | 590    | 45.21  | 0       | 590    | 45.21    |
| 132KV Yazman                           | T-2   | 1722143         | Dachi China   | 10.05.18      | 132/11KV | 26   | 1305    | 113.7 | 15:00 | 24.06.20 | 770    | 59.00  | 0       | 770    | 59.00    |
|                                        | T-1   | LPK-800975      | Siemens       | 24.11.2016    | 132/11KV | 13   | 653     | 56.85 | 9.00  | 13.06.20 | 400    | 61.26  | 0       | 400    | 61.26    |
| 132KV Ali Pur                          | T-2   | HV-1090014      | PEL           | 24.11.2016    | 132/11KV | 26   | 1305    | 114   | 15.00 | 13.06.20 | 1030   | 78.93  | 0       | 1030   | 78.93    |
|                                        | T-3   | 96224           | Electroputere | 13.06.2020    | 132/11KV | 13   | 653     | 56.9  | 15.00 | 13.06.20 | 320    | 49.00  | 0       | 320    | 49.00    |
|                                        | T-1   | 7211003         | Pauwels       | 02.10.2013    | 132/66KV | 37.5 | 328     | 164   | 15.00 | 21.06.20 | 132    | 40.24  | 0       | 132    | 40.24    |
| 132KV Choubara                         | T-2   | 22088           | Energo        | 11.06 1973    | 132/11KV | 13   | 653     | 56.9  | 14.00 | 10.06.20 | 227    | 34.76  | 0       | 227    | 34.76    |
| · · · · · · · · · · · · · · · · · · ·  | T-1   | 10200007        | Siemens       | 02.06.2002    | 132/11KV | 26   | 1305    | 114   | 18.00 | 24.06.20 | 900    | 68.97  | 0       | 900    | 68.97    |
| 132KV C/Munda                          | T-2   | 111000013       | Siemens       | 29.04.2017    | 132/11KV | 26   | 1305    | 114   | 16.00 | 25.06.20 | 860    | 65.90  | 0       | 860    | 65.90    |
| 132KV ('/Azam                          | $r_1$ | 326040          | R/Koncar      | 04 02 2010    | 132/11KV | 13   | 500     | 56.9  | 14.00 | 09.06.20 | 250    | 50.00  | 0       | 250    | 50.00    |

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#### MONTHLY STATEMENT SHOWING MAXIMUM LOAD OF POWER TRANSFORMERS FOR 06/20

| Nome of Crid Station           | Code  | Serial No.   | Make        | Date of<br>Commissioning | Voltage  | CAPACITY        |      | ſΥ    | MAXIMUM LOAD RECORDED |          |       |        | Load    | Total/    | Loading% |
|--------------------------------|-------|--------------|-------------|--------------------------|----------|-----------------|------|-------|-----------------------|----------|-------|--------|---------|-----------|----------|
| Name of Ortu Station           | No.   | Seriar reg.  |             |                          | Ratio    | MVA             | LV   | H.V   | Time                  | Date     | Load  | % age. | Shedded | ed Actual | age      |
|                                | T-1   | 201512455    | Chint China | 03.04.17                 | 132/11KV | 40              | 2008 | 175   | 17:00                 | 17.06.20 | 1390  | 69.22  | 0       | 1390      | 69.22    |
| 132KV Bahawal Pur              | T-2   | LPK11100001  | Siemens     | 09.12.10                 | 132/11KV | 40              | 2008 | 175   | 16:00                 | 25.06.20 | 1160  | 57.77  | 0       | 1160      | 57.77    |
|                                | T-3   | T 8-32       | HEC         | 29.11.16                 | 132/11KV | 40              | 2008 | 175   | 17:00                 | 25.06.20 | 1300  | 64.74  | 0       | 1300      | 64.74    |
| 132KV Bahawal Pur Canti        | T-1   | 8830268      | Irantransfo | 09.03.13                 | 132/11KV | 26              | 1305 | 113.7 | 16:00                 | 23.06.20 | 810   | 62.07  | 0       | 810       | 62.07    |
|                                | T-2   | 8830265      | Irantransfo | 09.03.13                 | 132/11KV | 26              | 1305 | 113.7 | 12:00                 | 30.06.20 | . 950 | 72.80  | 0       | 950       | 72.80    |
|                                | T-1   | 201512456    | Chint China | 04.03.17                 | 132/11KV | 40              | 2008 | 175   | 17:00                 | 23.06.20 | 1605  | 79.93  | 0       | 1605      | 79.93    |
| 132KV Baghdad-ul-Jadid         | T-2   | 8530331      | Irantransfo | 23-06-07                 | 132/11KV | 26              | 1305 | 114   | 17:00                 | 22.06.20 | 710   | 54.41  | 0       | 710       | 54.41    |
|                                | T-3   | 8112603      | Trafounion  | 25-11-19                 | 132/11KV | 13              | 653  | 56.9  | 15:00                 | 28.06.20 | 350   | 53.60  | 0       | 350       | 53.60    |
|                                | T-1   | 201512460    | Chint China | 11.12.16                 | 132/11KV | 40              | 2008 | 175   | 15:00                 | 18.06.20 | 1700  | 84.66  | 0       | 1700      | 84.66    |
| 132KV Bosan Road Multan        | T-2   | 201512445    | Chint China | 16.04.17                 | 132/11KV | 40              | 2008 | 113.7 | 23:00                 | 18.06.20 | 1900  | 94.62  | 0       | 1900      | 94.62    |
| · 2.                           | T-3   | LPK10800036  | Siemens     | 05.08.08                 | 132/11KV | 40 <sup>°</sup> | 2008 | 175   | 15:00                 | 23.06.20 | 1580  | 78.69  | 0       | 1580      | 78.69    |
|                                | T-1   | PELHV1120036 | PEL         | 27.11.12                 | 132/11KV | .40             | 2008 | 175   | 18:00                 | 16.06.20 | 1090  | 54.28  | 0       | 1090      | 54.28    |
| 132KV Basti Malook             | T-2   | 8230585      | Irantransfo | 12-06-06                 | 132/11KV | 26              | 1305 | 114   | 15:00                 | 23.06.20 | 780   | 59.77  | 0       | 780       | 59.77    |
|                                | Т-3   | 8830260      | Irantransfo | 07.04.16                 | 132/11KV | 26              | 1305 | 114   | 18:00                 | 23.06.20 | 780   | 59.77  | 0       | 780       | 59.77    |
|                                | T-1   | PELHV1120037 | PEL         | 12.09.18                 | 132/11KV | 40              | 2008 | 175   | 16:00                 | 22.06.20 | 1350  | 67.23  | 0       | 1350      | 67.23    |
| 132KV Industrial Estate Multan | Т-2   | 201708422    | Chint China | 07.07.18                 | 132/11KV | 40              | 2008 | 175   | 10:00                 | 18.06.20 | 1540  | 76.69  | 0       | 1540      | 76.69    |
|                                | T-3   | 201512476    | Chint China | 17.10.16                 | 132/11KV | 40              | 2008 | 175   | 15:00                 | 27.06.20 | 1725  | 85.91  | 0       | 1725      | 85.91    |
| 120KV Jail Post Multon         | • T-1 | 8830261      | Irantransfo | 09.03.13                 | 132/11KV | 26              | 1305 | 113.7 | 15:00                 | 18.06.20 | 1223  | 93.72  | 0       | 1223      | 93.72    |
| 132K V Jan Koad Munan          | T-2   | 8830259      | Irantransfo | 09.03.13                 | 132/11KV | 26              | 1305 | 113.7 | 15:00                 | 27.06.20 | 988   | 75.71  | 0       | 988       | 75.71    |
|                                | T-1   | PELHV1200010 | PEL         | 17.06.20                 | 132/11KV | 40              | 2008 | 175   | 14:00                 | 27.06.20 | 1080  | 53.78  | 0       | 1080      | 53.78    |
| 132KV Jalal Pur Pir Wala       | T-2   | 201512471    | Chint China | 22.11.16                 | 132/11KV | 40              | 2008 | 175   | 17:00                 | 27.06.20 | 1620  | 80.68  | 0       | 1620      | 80.68    |
|                                | T-3   | PELHV114003  | PEL         | 28.02.15                 | 132/11KV | 26              | 1305 | 113.7 | 17:00                 | 27.06.20 | 800   | 61.30  | 0       | 800       | 61.30    |
|                                | T-1 - | PELHV1130028 | PEL         | 29.01.20                 | 132/11KV | 40              | 2008 | 175   | 13:00                 | 01.06.20 | 925   | 46.07  | 0       | 925       | 46.07    |
| 132KV Khanewal Road Multan     | T-2   | PELHV1120053 | PEL         | 29.08.17                 | 132/11KV | 40              | 2008 | 175   | 15:00                 | 08.06.20 | 1100  | 54.78  | 0       | 1100      | 54.78    |
|                                | T-3   | PELHV1150008 | PEL         | 28.03.15                 | 132/11KV | 40              | 2008 | 175   | 12:00                 | 11.06.20 | 790   | 39.34  | 0       | 790       | 39.34    |
|                                | T-1   | T 5-92       | H.E.C       | 15-11-07                 | 132/11KV | 26              | 1305 | 113.7 | 17:00                 | 25.06.20 | 850   | 65.13  | 0       | 850       | 65.13    |
| 132KV Kabir Wala               | T-2   | 201512446    | Chint China | 12.02.18                 | 132/11KV | 40              | 2008 | 175   | 11:00                 | 18.06.20 | 1295  | 64.49  | 0       | 1295      | 64.49    |
|                                | T-3   | LPK10300006  | Siemens     | 21.05.14                 | 132/11KV | 26              | 1305 | 114   | 17:00                 | 17.06.20 | 985   | 75.48  | 0       | 985       | 75.48    |
|                                | T-1   | LPK11100033  | Siemens     | 22-05-12                 | 132/11KV | 26              | 1305 | 113.7 | 16:00                 | 11.06.20 | 970   | 74.33  | 0       | 970       | 74.33    |
| . 132KV Lar                    | T-2   | LPK11100032  | Siemens     | 23-06-12                 | 132/11KV | 26              | 1305 | 113.7 | 17:00                 | 11.06.20 | 780   | 59.77  | 0       | 780       | 59.77    |
| 132KV Lal Sohanra              | T-1   | LPK800974    | Siemens     | 16.04.14                 | 132/11KV | 13              | 653  | 56.9  | 14:00                 | 28.06.20 | 495   | 75.80  | 0       | 495 ·     | 75.80    |
|                                | T-1   | LPK11200011  | Siemens     | 19-07-12                 | 132/11KV | 40              | 2008 | 175   | 16:00                 | 27.06.20 | 1570  | 78.19  | 0       | 1570      | 78.19    |
| 132KV Lodhran                  | T-2   | T-8-29       | HEC         | 31.08.16                 | 132/11KV | 40              | 2008 | 175   | 17:00                 | 08.06.20 | 1605  | 79.93  | 0       | 1605      | 79.93    |
|                                | T-3   | 201512453    | Chint China | 31.01.17                 | 132/11KV | 40              | 2008 | 175   | 18:00                 | 22.06.20 | 1385  | 68.97  | 0       | 1385      | 68.97    |
| 122KW Malebelum Deathid        | T-1   | PELHV1140029 | PEL         | 17.02.15                 | 132/11KV | 26              | 1305 | 114   | 19:00                 | 22.06.20 | 770   | 59.00  | 0       | 770       | 59.00    |
|                                | T-2   | PELHV1120046 | PEL         | 08.10.18                 | 132/11KV | 26              | 1305 | 114   | <b>1</b> 3:00         | 28.06.20 | 950   | 72.80  | 0       | 950       | 72.80    |

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# ANNEXURE-1 LOADING POSITION OF GRID STATIONS

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PREPARED BY MEPCO WITH FACILITATION FROM



NTDC & CPPA August 2019



-MEPCO

#### Acknowledgement

The following officers/officials of MEPCO developed this Medium Term Energy and Demand Forecast report.

- Mr.Hassan Raza(Assistant Manager,MEPCO) Email:hraza.mepco@gmail.com
- Mr.Asham Ahmed(Assistant Manager,MEPCO)
   Email:am.mepco@gmail.com
- Mr.Zeshan Khan Babar (Addl. Assistant Manager, MEPCO) Email:zeeshankhan@gmail.com
- Mr. Abdul Rehman (Line Superintendent-I,MEPCO) Email:faizanrahman98@gmail.com

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PMS Team MEPCO

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#### **Executive Summary**

Multan Electric Power Company (MEPCO) is currently supplying electricityto civil divisions of Bahawalpur, DG Khan, Multan, Sahiwal and their respective districts.Earlier it was known as Multan Area Electricity Board (AEB) and its distribution network in the year 2001 comprised of seventy-one 132 kV and thirty-four 66 kV sub-stations. Presently, MEPCO operates One Hundred & Seven(107)132kV and fourteen (14)66kV sub-stations.

This forecast is developed by conducting Power Market Survey (PMS), where the bottom up approach is applied considering the best international practices for the development of ten years forecast which is called Medium-term Load Forecast with facilitation from National Transmission and Despatch Company (NTDC) and Central Power Purchasing Agency Guarantee Limited (CPPA-G). The year 2017-18 has been taken as the base year and the forecast horizon is ten years up to 2027-28. The base year sale data (consumer-category wise energy sale of each feeder) and the expected spot loads data at the locations of different sub-stations have been collected by FESCO Power Market Survey team besides Transmission & Distribution losses along with the loss reduction plans, historical category-wise sale and number of consumers. Data for the base year has also been adjusted for the estimated amount of un-served energy (load shedding) in order to have realistic figures of energy consumption. Furthermore, this report is updated on yearly basis, in order to capture any potential drastic change in consumer consumption pattern.

In the year 2017-18, peak demand of MEPCO was 3,436 MW, energy sale was 15,853 GWh and energy purchased was 19,006GWh. In the total energy sale for the year 2017-18 the shares of domestic sector and industrial sector were 58% and 19% respectively. The total number of consumers in 2017-18 was 6.04 million, and number of consumers in various categories was5.37 million in domestic, 0.536 million in commercial, 0.054 million in industrial sector and 0.080 million in agricultural sector.

Forecast results show that in the years 2022-23 and 2027-28 energy sale will be 23,467GWh and 28,861GWh, peak demand will be5,255MW and 6,485MW, and energy purchased will be 27,997GWh and 34,287GWh respectively. For the period 2017-18 to 2027-28, annual average compound growth rate of energy sale, peak demand and energy purchased will be 4.88%, 4.90% and 4.78% respectively.

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Process Map



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#### Introduction

This report is the 27<sup>th</sup>issue of Power Market Survey forecast and is prepared by MEPCOby getting assistance of CPPA-G. This forecast was previously published by Planning Power NTDCL and the current report is the second issue which is prepared by MEPCO by getting assistance from CPPA. The report consists of year wise detailed forecast of energy sale and power demand for the whole company and each sub-station within the company's distribution network. In addition, forecast for Civil Administrative areassuch asDivisions and Districts served bythe company's distribution networkisalso computed and depicted in different tables. The forecasted peak demand of MEPCO has been graphically presented in



#### Figure 1-1.

Load forecasting is an important element of the power planning process involving prediction of energy and demand in the future. The forecast serves as the basis for demand and supply-side planning. Load forecasts are typically prepared by utilities for different time frames and the level of details required depends upon different planning applications and operations for which the forecast will be used.

Long term planning requires a system level forecast of total generation requirement and peak demand. On the other hand, transmission and distribution planning requires more load level and geographic details to assess location, timing and loading of individual lines, substations and transformation facilities. The following figure(



Figure 1-1) shows the computed peak demand of MEPCO for the current forecast period.

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Figure 1-1: Computed Peak Demand Forecast

Forecasting models fall into the following three general categories:

- Trend models
- Econometric based models
- End-use models

Trend forecasts graphically or mathematically extrapolate past electricity demand trends into the future. They may be inadequate for short time periods where demographic changes in the underlying casual factors of load growth are not anticipated. Econometric models represent a more complex 'top-down' approach to forecasting and these models rely on the observed or the implied relationship between past energy consumption and other variables defining past economic output (likewise GDP data), demographics and price or income variables. End-use models relate energy use to the physical appliances stock levels and use patterns or industrial process. These end use models represent a 'bottom-up' forecasting approach and normally incorporate disaggregate end use forecast and consumer survey techniques.

This report has been prepared on the basis of Power Market Survey Methodology and the model used is called Power Market Survey (PMS) model. It uses bottom up approach. This model is a form of end use model which provides energy and power projections for all distribution companies and all grid stations within acompany's distribution network.

The PMS model relies on an extensive data base of historical sales. The data base includes historical figures of consumption by consumer type (i.e. domestic, industrial and commercial etc.) of each feeder of a grid station and overall consumption from a grid station. Actual consumption data isadjusted for un-served demands attributed to load shedding.

Energy forecasts are computed for each consumption category at the sub area level (grid or feeder level) on the basis of a trend analysis of recent per consumer sales plus new consumer connection applications. Industrial forecasts are based on interviews with existing consumers, trend projections and a review of the applications for request of new and increased service. These analyses are repeated for each sub area for each of the years to be forecasted. The annual peak demand is determined from the resulting energy forecasts by using the load factors and diversity factors developed for each consumer category. Forecasts are then aggregated to system level.

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Because the PMS forecast is based on a mix of end-use, trend projection and known consumer expansion plans, it cannot be used reliably to predict demand over the longer term. This model had not been created to predict impacts of changes in growth of different economic sectors or consumers categories over time, or changes in both the absolute and relative prices of electricity, and of changes in the relationships between income growth and electricity growth over time as a result of market saturation and technological change (in order to capture these changes CPPA-Gis using another model called regression model). Regression model is used for long term forecasting as the changes in growth are occurred due to change in technology, life style over a longer time period.

The Power Market Survey forecast model most closely approaches the requirements of power system planning. It provides the level of detail required for siting studies and transmission and substation planning as well as the sectoral details necessary to assess different sectors growth rates and their impacts on load shapes for the system, DISCOs and grid stations. In addition, it also provides a reasonable approximation of unconstrained load growth because it makes specific provision for load shedding i.e. suppressed demand.

#### Historical Supply and Demand Analysis

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#### 2.1 Category-wise Sale

The costumers within the company can be segregated in different categories. The segregation is usually based upon the type of applications for which electricity is being used. Major categories include Domestic, Commercial, Small industries, Medium & Large industries and Agriculture.

The category-wise sale (GWh) along with percentage for the years 2007-08, 2012-13, and 2017-18 are given in Figure 1-2.



#### Figure 1-2: Historical Category-wise Sale

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Figures of category-wise sale for the last five years i.e. 2013-14 to 2017-18 are given in the table below.

| Financial<br>Year          | Domestic<br>(GWh) | Commercial<br>(GWb) | Public<br>Light<br>(GWh) | Small<br>Industries<br>(GWh) | M&L<br>Industries<br>– (GWh) | Tube<br>Well<br>(GWh) | Bulk<br>(GWh) | Total<br>(GWh) |
|----------------------------|-------------------|---------------------|--------------------------|------------------------------|------------------------------|-----------------------|---------------|----------------|
| 2014                       | 5527              | 640                 | 17                       | 305                          | 2685                         | 2090                  | · 173         | 11437          |
| 2015                       | 6022              | 657                 | 16                       | 310                          | 2761                         | 1745                  | 200           | 11711          |
| 2016                       | 6635              | 730                 | 16                       | 323                          | 2532                         | 1880                  | 224           | 12341          |
| 2017                       | 7574              | 846                 | 20                       | 333                          | 1956                         | 2271                  | 252           | 13252          |
| 2018                       | 8896              | 967                 | 20                       | 364                          | 2597                         | 2653                  | 293           | 15853          |
| Ave. Growth<br>(2013-2017) | 12.6%             | 10.9%               | 4.2%                     | 4.5%                         | -0.8%                        | 6.1%                  | 14.2%         | 8.5%           |

Table 2.1-1: Historical Sale of MEPCO

#### 2.2 Transmission and Distribution Losses

In MEPCO'ssystem, losses are divided into two types;

- Transmission Losses
- Distribution Losses

The losses of 132 kV transmission lines are considered as Transmission Losses whereas the losses of 11 kV and 440 Volts lines supplying the consumers are called Distribution Losses. In a system, generally the high losses are due to lack of proper maintenance and element of theft. Reduction in losses can be achieved through installation of properly sized conductors in 11kV feeders andlow-tension lines. Installation of capacitor banks to reduce reactive power and thereby improving power factor is also and effective method to reduce line losses. The breakup of energy sent out is shown as Sale, Distribution Losses and Transmission Losses with their percentages in the Figure 1-3 for the year 2007-08,2012-13 and 2017-18.



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Figure 1-3: Historical Energy Sale and Losses (Transmission and Distribution) with their percentages

#### 2.3 Recorded and Computed Peak Demand

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Recorded peak demand is the highest electricity demand or maximum power supplied to the consumers during the base year. Computed peak demand is calculated from the recorded peak demand by adding the element of unserved power to the values of recorded peak demand. **Figure 1-4** shows the recorded and computed peak demands (MW) from the year 2013-14 to 2016-17.



Figure 1-4: Historical Recorded and Computed Peak Demands

Historical figures of recorded and computed peak, energy sale and purchase, losses and load factors for MEPCO are given in the following table.

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Table 2.3-1: Historical Peak Demand, Energy Sale & Purchase, Losses and Load Factor

| Year                                | Energy<br>Sale | Energy<br>Purchase | Lo<br>11<br>KV | osses<br>132<br>KV | Computed<br>Energy<br>Purchased | Recorded<br>Peak | Computed<br>Peak | Load<br>Factor <sup>2</sup> | Comp.<br>Load<br>Factor |
|-------------------------------------|----------------|--------------------|----------------|--------------------|---------------------------------|------------------|------------------|-----------------------------|-------------------------|
|                                     | 11407          | 10075              |                |                    |                                 | 1007             | 1VI W            | <b>%</b> 0                  | <b>70</b>               |
| 2014                                | 11437          | 13375              | 1939           | 484                | 19/41.8                         | 188/             | 3570             | 84                          | 63                      |
| 2015                                | 11711          | 13645              | 1934           | 431                | 20370.9                         | 1774             | 3892             | 91                          | 60                      |
| 2016                                | 12340          | 14334              | 1994           | 436                | 20036.0                         | 2486             | 3693             | 68                          | 62                      |
| 2017                                | 13253          | 15518              | 2265           | 433                | 20291.9                         | 2766             | 3762             | 66                          | 62                      |
| 2018                                | 15853          | 18562              | 2709           | 444                | 20736.6                         | 3436             | 4018             | 63                          | 59                      |
| Avg.<br>Growth<br>Rate<br>(2014-18) | 8.51%          | 8.54%              |                |                    |                                 | 16.16%           | 3.00%            |                             |                         |

#### 2.4 Number of Consumers

Historical figures of number of consumers within MEPCO's jurisdiction for the last five years are given in Figure 1-5. These figures show the total number of consumers in all consumer categories; i.e. Domestic, Commercial, Small industries, Medium & Large industries, Public Lighting, Bulk and Agriculture. Figure 1-5 shows a regular increase in the number of customers each year.



Figure 1-5: Number of Consumers

Category-wise number of consumers for the last five years i.e. 2013-14 to 2017-18 is shown in the following table.

| Year                       | Domestic | Commercial | Public<br>Light | Small<br>Industries | M&L<br>Industries | Tube Well | Bulk | Total   |
|----------------------------|----------|------------|-----------------|---------------------|-------------------|-----------|------|---------|
| 2014                       | 4278340  | 455088     | 1365            | 41170               | 8429              | 75484     | 420  | 4860296 |
| 2015                       | 4509107  | 476683     | 1402            | 42266               | 8869              | 77317     | 429  | 5116073 |
| 2016                       | 4747122  | 494523     | 1448            | 43658               | · 9187            | 78399     | 436  | 5374773 |
| 2017                       | 5051002  | 514327     | 1470            | 44583               | 9593              | 79965     | 452  | 5701392 |
| 2018                       | 5371111  | 536876     | 1494            | 44952               | 9820              | 79965     | 459  | 6044677 |
| Ave. Growth<br>(2014-2018) | 5.9%     | 4.2%       | 2.3%            | 2.2%                | 3.9%              | 1.5%      | 2.2% | 5.6%    |

 Table 2.4-1: Historical Number of Consumers in MEPCO

#### Power Market Survey Methodology

#### 3.1 Overview

The Power Market Survey Model forms the basis of the Medium Term Forecast. It produces energy and peak demand forecastfor each consumer category and grid station for the entire service area over a period of ten years. The model has three inter-related components: the main database, the basic input parameters and the calculations.

A huge energy consumption database has been developed through the Power Market Survey. The database contains base year consumption data for existing consumers and ten years' forecast data for new consumers for each consumer category within the company. In addition, there is separate information for peak demand in medium & large industries and traction categories. Because of its huge volume, this data is not listed as part of the report.

In addition to the database, a number of basic input parametersare separately prepared for each DISCO which forms an integral part of the forecast model. These include:

- Growth Rates: The annual increase in consumption per consumer by consumer category
- Loss Rates: Transmission and Distribution Losses expressed as a percentage of energy purchased and energy sold, respectively
- Load Factors: It expresses the ratio of the amount of energy actually generated to the amount that would have been generated, had the peak demand been continued over the entire period.
- Coincidence Factors: Describing the load diversity within the system.

The forecast calculations within the model combine the energy consumption data and the input parameters to compute the energy and peak demand requirements within each area for each year to be forecasted. The basic data unit is an area. The data is accumulated from the area basis to grid stations, then to DISCOs and ultimately combined to produce a forecast for the entire system.

A detailed discussion of eachof the three model components is given below.

#### 3.2 Survey Base Data

An extensive database has been developed on gross consumption by consumer category such as household (domestic), commercial, small industrial, large industrial, tube wells (agriculture), public lighting, and traction (electric rail). Energy consumption figures come from consumer service meter readings. Maximum demand readings and load factors for large industrial consumers and other demand-meteredconsumers are based on service meter readings. The consumption data is collected from Computer Centers of each DISCO (It is category-wise consumption data of each feeder). The database also contains data regarding un-served demands attributed to load shedding.

The basic geographic unit represented within the database is called an area, although many areas are divided into two or more subareas. This occurs when portions of the area are served by different feeders or where a single feeder services different administrative districts. Each area is assigned a series of codes which identify the technical boundaries associated with the area.

The technical boundaries, which are emphasized in this report, start at the grid station. Thus, all areas and subareas are assigned to one of the sub-stations in each DISCO. These are distribution grid stations supplying power at 11 kV after transformation from a 132kV or 66 kV source. Grid stations are combined to form a DISCO.

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There can be up to eleven records in the data base for each area or subarea, one record for each year of forecast. The first year is typically year zero and records the base year level of consumption for each consumer category. The remaining records for the area list the incremental consumption associated with new consumers to be added to the area within the specified year.

This incremental consumption is based on applications for new or extended service which are filed at each revenue office and from discussions with the relevant industries and government agencies. Incremental industrial consumption is based on a combination of interviews, trend projections, and reviews of applications for new and/or increased service. Interviews are held with major industrial consumers to identify their current capacity utilization and any long-term plans they have for future expansion or changes in their electricity consumption. In addition, the various branches of the Ministry of Industries are interviewed to determine the number of applications received for new developments or plant expansions and the anticipated electrical load associated with each development or expansion. These anticipated new demands are added to the basic forecast of industrial consumption.

Extension of electricity to new areas over the forecast period is dealt with separately. The number of new communities to be electrified is also obtained. Initial loads and load growths are calculated based on past experience in terms of market penetration and consumption per consumer in newly electrified communities. This analysis is conducted at DISCO level. It includes new Housing schemes and new villages.

There are over 10,000 area/subarea/year records in the data base.

#### **3.3** Input Parameters

A number of input parameters are defined in order to use these in the Power Market Survey model. These parameters are:

- Transmission and Distribution Loss Rates
- The Growth Rates in consumption per consumer for each category
- Load Factors for each consumer category
- Coincidence or Diversity Factors
- Load Shedding or Unserved Energy

The definition and basic derivation of each parameter is discussed below.

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#### 3.3.1 Growth Rates

The forecast calculations, as will be discussed below, use per consumer growth rates to update the previous year's consumption before adding the incremental consumption estimate for the current year. The Power Market Survey model requires per consumer growth rates to be specified by DISCO for each consumer category (domestic, commercial, etc.). The rates selected for the forecast

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are based on average annual compound growth rates, calculated from the last five years data of each consumer category in each DISCO.

#### 3.3.2 Losses

For every 100 units of electricity purchased from a power station only 75 to 85 units are actually sold to the ultimate end-user. The remaining unitsare consumed by the power system itself during transmission and distribution of the sold energy. The transmission and distribution losses must be added to the sales forecast in order to determine the total generation requirement for the system. An additional source of "loss" is the consumption in auxiliaries (also called station service) used by the power plants in the process of generating electricity. Auxiliary consumption cannot be avoided and is totally dependent on the type of generation. For example, a thermal plant would have a higher auxiliary consumption than a hydro plant to account for the energy consumed by fuel and waste handling systems. Auxiliary losses are determined and incorporated in the forecast outside the model. However, presently as the power is purchased at the bus bar level so the energy consumption in auxiliary is not calculated.

The Power Market Survey model handles Distribution and Transmission losses in such a manner thatDistribution losses are expressed as a percentage of Sales and Transmission losses are expressed as a percentage of the energy purchased from the generating stations. The model is capable of handling different loss rates of each year for each DISCO. The Distribution and Transmission losses used in the Power Market Survey Model are based on the review of current loss rates and an evaluation of existing loss reduction initiatives within the Distribution Network of the DISCO. The proposed losses (Distribution losses at 11kV and Transmission losses at 132 kV) are applied DISCO-wise. Previously a separate excel sheet was used outside the model to calculate the loss rates needed for the model. Now a separate module has been incorporated in the model to adjust 132 kV and 11 kV received and sale of a DISCO. This model simulates sale, Distribution losses and Transmission losses and Transmission losses of a DISCO. It also includes the loss reduction program.

#### 3.3.3 Load Factors

Energy sale in each consumer category is converted to peak power demand through the use of a load factor. It expresses the ratio of the amount of energy actually generated to the amount that would have been generated, had the peak demand been continued over the entire period. Load factors can be calculated over any time period but the most common are daily, weekly and annual.

The load factors utilized in the Power Market Survey Model relate annual energy sent out to peak capacity for each consumer category (domestic, commercial, public lighting, small industries and private tube wells). Input load factors are not required for medium/large industry, public tube well and traction sales as consumption for these sectors is provided through the survey in both energy and power terms.

Maximum demand readings are available directly for large industrial and other demand metered consumers such as public tube wells. Load factors for non-demand metered consumers are determined on a sample basis. For example, peak demand is based on maximum demand readings from substation feeders which are identified as serving predominantly one sector.
Domestic and commercial load factors are differentiated by community size (village, town or city). Whereas a single load factor is used for small industrial, private tube wells, public lighting and traction because of the similar nature in the operation of these loads.

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### 3.3.4 Coincidence Factors

The total energy demand of a number of individual consumers is determined as the simple sum of their individual energy consumption values. The total peak load, however, is calculated as the diversified sum of their individual peak load levels. The coincidence factor, as its name implies, is a general term which measures the coincidence between the peak loads of any number of individual consumers or consumer groups over a specified time period in order to compute a combined peak. Mathematically, it is the inverse of the diversity factor.

The daily coincidence factor is determined by comparing the daily load patterns of each consumer or group under consideration. In this case, the sum of the individual hourly (or 15-minute) peaks would determine the overall daily load pattern and the overall peak load. Suppose one consumer (or group) consumes energy only in the morning and a second consumer (or group) consumes energy only in the morning and a second consumer (or group) consumes energy only in the morning and a second consumers would be zero and the peak load of the combined group would be the peak of the larger consumer. Conversely, if both groups consumed all energy at the same hour, the coincidence factor would be one and the combined peak would be the sum of the two peaks. In practice, the coincidence factor is found between these two extremes.

Coincidence factors can be determined between any group and sub-group of consumers whether it is domestic versus commercial or Lahore versus Islamabad, provided that reasonable estimates of the appropriate load patterns are available. Typically, these patterns are not readily available and must be synthesized from incomplete or estimated data. In addition, all coincidence factors calculated from these load patterns are approximations of the corresponding instantaneous peak faced by the system. In fact, a common practice is to define this instantaneous peak as the bench mark and specify all coincidence factors in relation to this peak and time. The advantage of this approach is that all peak can be easily converted into their contribution to the overall system peak, the disadvantage is that the relationship between any two groups cannot be so clearly specified and will likely be incorrectly specified.

The Power Market Survey Model depends upon specified coincidence factors between consumption categories and between consumption areas in the aggregation of peak loads from consumers to the peaks at grid stations and at DISCO level and at the level of overall system peak. The coincidence factors estimated for the medium-term model have been based on the limited available System records of the peak loads at various points in their respective systems.

### 3.3.5 Load Shedding

Actual consumption data is also adjusted for un-served demands attributed to load shedding and to voluntary restraint by consumers (e.g. an industrial consumer who agrees to close his plant or switch to captive generation during peak hours). The load shedding data is collected from National Power Control Center (NPCC) of NTDC and also from the Power Dispatch Centres of each DISCO. Now a day, all the load shedding is managed by each DISCO at its 11kV level.

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### **3.4** Forecast Calculations

The forecast calculations involve three basic steps. Firstly, an energy forecast is determined at the area (or subarea) level using per consumer growth rates and incremental consumption estimates from the data base. This is then converted to a peak demand forecast, again at the area (or subarea) level using the input load and diversity factors. Then transmission and distribution losses are added and final step is to accumulate the areas into their corresponding grid stations, and grid stations into their DISCO and finally all DISCOs to form the system.

#### **3.5 Energy Calculations**

The basic calculation unit is the area or subarea where applicable. The database provides the base year energy consumption level for each of the six consumption categories (Domestic, Commercial, Public Lighting, Small Industry, Private Tube Wells and Medium & Large Industry). The database also includes the peak demand associated with the medium and large industry category. The domestic energy forecast for year 1 (the base year is indicated as year 0) is calculated by multiplying the base year consumption by the domestic per consumer growth rate to account for growth in the intensity of use in the sector, and then incremental consumption listed in the database is added to account for new use in the sector. This process is repeated for the remaining five energy sectors (plus the medium and large industrial demand) for the entire forecast period (remaining 10 years). The total energy consumed in the subarea for each year of the forecast period is then computed.

#### **3.6** Peak Demand Calculations

The annual energy sale values for each of the consumer category(domestic, commercial, public lighting, small industry and private tube well) are converted to peak demand using the load factors listed in the appropriate input parameter file and then adjusted to account for coincidence within the category. The annual peak demand for the subarea is computed as the sum of the individual category peaks multiplied by coincidence factors within the subarea. The sub area peak demands are accumulated to an area by applying proper coincidence factors.

#### 3.7 Accumulations

The total energy and peak demand at a given grid station is calculated as the sum of all the areas and subareas in that grid station's service area plus an allowance for distribution losses. Peak demand estimates are accumulated, and different coincidence factors applied to city, town and village areas within the service area. The total energy and peak demand within a given DISCO is the sum of all grid stations in that DISCO plus traction and an allowance for transmission losses. Peak demands are again diversified in the accumulation, and the system totals are obtained from DISCO's total with some coincidence.

## **PMS Forecast Results**

### 4.1 Recorded Forecast& Computed Forecast

The term 'Recorded Forecast' means the energy sale figures used in the forecast has not been adjusted for un-served energy (load shedding). Forecasted sale, growth rates, transmission and distribution losses, generation requirement and peak demand without incorporating load shedding has been shown in **Table 1-1**. This forecast is also called the Low Forecast.

The term 'Computed Forecast' means the energy sale figures used in forecast havebeen adjusted for un-served energy (load shedding). Forecasted energy sale, growth rates, transmission and distribution losses, generation requirement and peak demand with incorporating load shedding has been shown **Table 1-2**. Peak demand of this table has been demonstrated graphically in **Figure 1-6**. Similarly, energy sale and energy purchased also have been shown in **Figure 1-7**. The difference between energy purchased and energy sale shows all losses of the DISCO. This forecast is also called the Base Forecast. If there had not been the load shedding, the recorded forecast (Low Forecast) would have been the actual forecast i.e. the Base Forecast.



Figure 1-6: Computed Peak Demand



Figure 1-7: Energy Purchased Vs Energy Sale

### 4.2 Category-wise Forecasted Energy Sale (GWh)

Amount and percentage share of each consumer category in the total consumption for the year 2022-23 and year 2027-28 have been depicted in **Figure 1-8**. If we critically analyze **Figure 1-2** and **Figure 1-8**, it is evident that domestic sector is continuously decreasing from 49% up to 53% from year 2007-08 up to year 2027-28. Industrial sector has shown a decrease from 24% to 20% during these years which is not a healthy sign for the country's growth.



Figure 1-8: Forecasted Category Wise Sale

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The category-wise forecasted sale incorporating load sheddingeffect (Low Forecast) is shown in **Table 1-3**. The category-wise forecasted sale with incorporating load shedding effect (Base Forecast) is shown in **Table 1-4**.

### 4.3 Category wise Forecasted Demand (MW)

The forecast of consumption (Demand) in MW without and with incorporating load shedding impact is shown in **Table 1-5** and **Table 1-6** respectively.

### 4.4 Civil Administrative Area Forecast

The MEPCO service area comprises of 4 civil administrative divisions i-e Bahawalpur, D G. Khan, Multan and Sahiwal. These divisions have 13 districts, Bahawal Nagar, Bahawal Pur, Rahimyar Khan, Lodhran, D.G. Khan, Leiah, Muzaffar Garh, Rajan Pur, Khane Wal, Multan, Vehari, Sahiwal and Pak Pattan. The civil administrative Division-wise andDistrict-wise energy and demand projections have been presented in **Table 1-7**to**Table 1-23**. The last column of the table contains peak demand.

### 4.5 Monthly Demand (MW) and Energy (GWh) Purchase Projections

The Month-wise demand (MW) and energy (GWh) purchase projections have been presented in **Table 1-24** and **Table 1-25**. To develop the projection, monthly demand and energy factors are computed for last five years and then its average is taken as a base factor for monthly demand and Energy projection. For this, each month peak is calculated from the ratio of the historical peak of that particular month to the annual historical peak of that year. Whereas each month Energy purchase is calculated from the ratio of historical monthly energy purchase of that particular month to annual energy purchase of that year. In this manner, historical ratios are calculated for each month of the last five years. The average of these values is taken as the monthly factor and multiplied with the peak demand of the year to obtain monthly peak demand and energy purchase.

#### 4.6 List of Overloaded Substations

The list of overloaded substations will inform about that particular year in which a substation will be overloaded. The overloading criterion of a substation has been considered as 100% i.e. when any substation is 100% loaded, the remedial measures should be taken in the form of new substation or augmentation of the existing transformers. **Table 1-26**&

**Table** 1-27show the lists of overloaded substations based on overloading criterion of 85% and 100% respectively. Based on the overloading criterion of 85% the number of overloaded substations in the year 2017-18 are 19. Total Ten (10) additional grids will be overloaded during years 2018-19 and 2019-20. In total, there would be 29 overloaded substations up to year 2019-20 as per 85% overloading criterion.

### 4.7 List of Grids with their Codes and MVA Capacities

The list of substations in a DISCO mentioning number of transformers with MVA capacities at each substation is provided in the

Table 1-28.

### 4.8 Peak Demand of Substations

A projection of peak demand at a substation is the most peculiar feature of this report. It is indeed a very rare and useful forecast. It provides the basis for transmission system expansion planning. It also provides a very solid ground for proposing a new substation or augmentation, extension and conversion of a sub-station. Only distribution losses have been considered in preparing the grid station peak demand forecast. The peak demand of each substation, existing as well as proposed, situated in the service area of the DISCO has been shown in **Table 1-29**.

The proposed substations during the present period have also been incorporated in this table. The demand of the proposed substations is shown on the existing grids before the commissioning of proposed substation and it is shifted to the proposed substation after its commissioning year.

#### 4.9 Peak Demands of existing, transit and proposed grids (Family of Grids)

This report also shows the projection of peak demands of existing substations as well as the demands that will be transferred to the proposed substation at when commissioned. This is also a very important forecast to accurately plan the capacity of the proposed substations as well as the status of the existing substation after the load is transferred to the proposed substation. It accurately forecast the demand in MW that will be transferred from one existing grid to the proposed grid and as well as the total load that will be transferred to the proposed grid. The peak demands of existing, transit and proposed grids are shown in

Table 1-30.Transit grid is a new term introduced in the current issue of the report. It is a virtual or temporary substation with a particular name and number on which the necessary load from one overloaded substation is shifted temporarily during base year. In

Table 1-30, the proposed grids are shown with zero loads and the transit grid shows the estimated load that will be shifted from one existing substation to the proposed grid when it is commissioned. This table helps in finding out the amount of load in the future that will be shifted to the proposed grid from the existing grid when it is commissioned.

### 4.10 Per Capita Consumption

Per capita consumption is a very vivid indicator of development in a country. Usually developed countries have very high per capita consumption. Per capita consumption (kWh/person) for the year 2012-13, 2016-17, 2017-18, 2022-23, and 2027-28 is given in **Figure 1-9**.(The consumption for the years 2021-22, and 2026-27 are obtained from forecasted data.).Population data is obtained from Pakistan census 2016-17.



Figure 1-9: Per Capita Consumption

# 4.11 Category-wise Energy and Maximum Demand Projections for each Substation

The category-wise energy and maximum demand projections for each substation have been presented in **Table 1-31**. The last two columns of the table contain power factor and reactive power values. The maximum demand for the DISCO in this table is the diversified sum of the individual peak demands of each substation and this figure will coincide with the peak demand of the respective year. In order to reduce the volume of the report, only the values of the last year i.e. 2026-27 have been presented in the table.

Table 1-1: Forecast without incorporatingLoad Sheddingeffect (Low Forecast)

| Year                       | Energy<br>Sale | /   | Distrib<br>Loss | ution<br>es | Energy<br>Receved at | Peak<br>Demand<br>ar 19 kV | Transmis<br>Losse | ision<br>Is | Energy<br>Sent out at | Load<br>Factor | Peak<br>Demario<br>ar 122 ku |
|----------------------------|----------------|-----|-----------------|-------------|----------------------|----------------------------|-------------------|-------------|-----------------------|----------------|------------------------------|
|                            | (GWh)          | G.R | (GWh)           | (%).        |                      | MW                         | , ( <b>GWh)</b>   | (%)         | (GWh)                 | (%)            | (MW)                         |
| 2017-18                    | 15853          |     | 2709            | 14.59       | 18562                | 3436                       | 444               | 2.34        | 19006                 | 61.7           | 3518                         |
| 2018-19                    | 17243          | 8.8 | 2936            | 14.55       | 20180                | 3729                       | 480               | 2.32        | 20660                 | 61.8           | 3817                         |
| 2019-20                    | 18176          | 5.4 | 3079            | 14.49       | 21255                | 3935                       | 504               | 2.32        | 21759                 | 61.7           | 4028                         |
| 2020-21                    | 19144          | 5.3 | 3222            | 14.41       | 22366                | 4147                       | 528               | 2.31        | 22894                 | 61.6           | 4245                         |
|                            | 20152          | 5.3 | 3368            | 14.32       | 23520                | 4367                       | 553               | 2.30        | 24073                 | 61.5           | 4469                         |
| 2022-23                    | 21247          | 5.4 | 3520            | 14.21       | 24767                | 4603                       | 580               | 2.29        | 25347                 | 61.4           | 4711                         |
| 2023-24                    | 22311          | 5.0 | 3672            | 14.13       | 25983                | 4836                       | 605               | 2.28        | 26588                 | 61.3           | 4949                         |
| 2024-25                    | 23344          | 4.6 | 3824            | 14.08       | 27168                | 5065                       | 630               | 2.27        | 27798                 | 61.2           | 5183                         |
| 2025,26                    | 24390          | 4.5 | 3976            | 14.02       | 28367                | 5297                       | 655               | 2.26        | 29022                 | 61.1           | 5419                         |
| 2026-27                    | 25450          | 4.3 | 4129            | 13.96       | 29579                | 5532                       | 680               | 2.25        | 30259                 | 61.0           | 5659                         |
| 2027-28                    | 26520          | 4.2 | 4281 •          | 13.90       | 30800                | 5769                       | 705               | 2.24        | 31505                 | 61.0           | 5901                         |
| Ave. Growth<br>(2018-2028) | 5.28%          |     |                 |             | 5.19%                | 5.32%                      |                   |             | 5.18%                 |                | 5.31%                        |

MEPCO Table 1-2: Computed Forecast(Base Forecast)

| Year                       | Computed<br>Sale | G.R. | Distrib<br>Loss | ution<br>Ses | Energy<br>Receved<br>at 11 kV | Peak<br>Demand<br>at 11 kV | Transmi<br>Losse | ssion<br>es | Energy<br>Sent out at<br>132 kV | Load<br>Factor | Computed<br>Peak<br>Demand<br>at 132 kV | an an an an an an an an an an an an an a |
|----------------------------|------------------|------|-----------------|--------------|-------------------------------|----------------------------|------------------|-------------|---------------------------------|----------------|-----------------------------------------|------------------------------------------|
|                            |                  | (%)  | (GWh)           | . (%)        | GWh                           | MW                         | (GWh)            | (%)         | (GWh)                           | . (%)          | (MW)                                    | (%)                                      |
| 2017-18                    | 17924            |      | 3063            | 14.59        | 20987                         | 4018                       | 501.9            | 2.34        | 21489                           | 59.6           | 4114                                    |                                          |
| 2018-19                    | 19388            | 8.2  | 3301            | 14.55        | 22689                         | 3735                       | 540.0            | 2.32        | 23229                           | 69.3           | 3824                                    | -7.0                                     |
| 2019-20                    | 20337            | 4.9  | 3445            | 14.48        | 23782                         | 3922                       | 563.6            | 2.32        | 24346                           | 69.2           | 4015                                    | 5.0                                      |
| 2020-21                    | 21322            | 4.8  | 3588            | 14.41        | 24911                         | 4114                       | 587.9            | 2.31        | 25499                           | 69.1           | 4211                                    | 4.9                                      |
| 2021-22                    | 22349            | 4.8  | 3736            | 14.32        | 26085                         | 4313                       | 613.0            | 2.30        | 26698                           | 69.0           | 4414                                    | 4.8                                      |
| 2022-23                    | 23467            | 5.0  | 3889            | 14.22        | 27357                         | 4528                       | 640.1            | 2.29        | 27997                           | 69.0           | 4634                                    | 5.0                                      |
| 2023-24                    | 24555            | 4.6  | 4043            | 14.14        | 28598                         | 4739                       | 666.3            | 2.28        | 29264                           | 68.9           | 4850                                    | 4.7                                      |
| 2024-25                    | 25612            | 4.3  | 4197            | 14.08        | 29809                         | 4948                       | 691.6            | 2.27        | 30500                           | 68.8           | 5062                                    | 4.4                                      |
| 2025-26                    | 26682            | 4.2  | 4351            | 14.02        | 31033                         | 5159                       | 716.9            | 2.26        | 31750                           | 68.7           | 5278                                    | 4.3                                      |
| 2026-27                    | 27766            | 4.1  | 4505            | 13.96        | 32272                         | 5372                       | 742.3            | 2.25        | 33014                           | 68.6           | 5496                                    | 67                                       |
| 2027-28                    | 28861            | 3.9  | 4659            | 13.90        | 33520                         | 5588                       | 767.6            | 2.24        | 34287                           | 68.5           | 5716                                    | 4.0                                      |
| Ave. Growth<br>(2018-2028) | 4.88%            |      |                 |              | 4.79%                         | 3.35%                      |                  |             | 4.78%                           |                | 3.34%                                   |                                          |

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 Table 1-3: Consumer Category Wise Sale – GWh without incorporating Load Shedding effect (Low Forecast)

|   | Year                      | Domes  | tic | Comme  | reial | . Public L | ight | _ Sina<br>Indust | ull<br>rries | M&L Ind | ustries | Тибе И | Vell . | Total  | No. 20 |
|---|---------------------------|--------|-----|--------|-------|------------|------|------------------|--------------|---------|---------|--------|--------|--------|--------|
| 0 |                           | Energy | GR  | Energy | G.R   | Energy     | ∴G,R | Energy           | .G.R         | Energy  | G.R     | Ênergy | GR     | Energy | G.R    |
|   | 2017-18                   | 9189   |     | 1030   |       | 20         |      | 363              |              | 2597    |         | 2653   |        | 15853  |        |
|   | 2018-19                   | 9582   | 4.3 | 1176   | 14.1  | 21         | 2.9  | 432              | 19.1         | 2875    | 10.7    | 3158   | 19.0   | 17243  | 8.8    |
|   | 2019-20                   | 10023  | 4.6 | 1325   | 12.7  | 22         | 2.9  | 502              | 16.2         | 2998    | 4.3     | 3306   | 4.7    | 18176  | 5.4    |
|   | 2020-21                   | 10466  | 4.4 | 1480   | 11.6  | 22         | 2.9  | 573              | 14.0         | 3149    | 5.0     | 3456   | 4.5    | 19144  | 5.3    |
|   | 2021-22                   | 10932  | 4.5 | 1638   | 10.7  | 23         | 2.9  | 644              | 12.4         | 3309    | 5.1     | 3606   | 4.3    | 20152  | 5.3    |
| - | 2022-23                   | 11434  | 4.6 | 1802   | 10.0  | 24         | 2.9  | 716              | 11.2         | 3515    | 6.2     | 3757   | 4.2    | 21247  | 5.4    |
| • | 2023-24                   | 11941  | 4.4 | 1971   | 9.4   | 24         | 2.9  | 789              | 10.1         | 3679    | 4.7     | 3908   | 4.0    | 22311  | 5.0    |
|   | 2024-25                   | 12453  | 4.3 | 2144   | 8.8   | 25         | 2.9  | 862              | 9.3          | 3800    | 3.3     | 4061   | 3.9    | 23344  | 4.6    |
|   | 2025-26                   | 12970  | 4.2 | 2323   | 8.3   | 26         | 2.9  | 936              | 8.6          | 3922    | 3.2     | 4214   | 3.8    | 24390  | 4.5    |
|   | 2026-27                   | 13492  | 4.0 | 2507   | 7.9   | 26         | 2.9  | 1010             | 8.0          | 4047    | 3.2     | 4368   | 3.7    | 25450  | 4.3    |
|   | 2027-28                   | 14018  | 3.9 | 2697   | 7.6   | 27         | 2.9  | 1085             | 7.4          | 4172    | 3.1     | 4521   | 3.5    | 26520  | 4.2    |
|   | Ave Growth<br>(2018-2028) | 4.3%   |     | 10.1%  |       | 2.9%       |      | 11.6%            |              | 4.9%    |         | 5.5%   |        | 5.3%   |        |

-MEPCO Table 1-4: Consumer Category Wise Sale – GWh (Base Forecast)

|                              |        |     |        |       |          |       |           |         |          |         |        |      |        | a so takana takan |
|------------------------------|--------|-----|--------|-------|----------|-------|-----------|---------|----------|---------|--------|------|--------|-------------------|
| Year                         | Domes  | tic | Comme  | rcial | Public L | .ight | Small Ind | ustries | M&L Indu | istries | Tube V | Vell | Tota   |                   |
|                              | Energy | G.R | Energy | G.R   | Energy   | G.R   | Energy    | G.R     | Energy   | G.R     | Energy | G.R  | Energy | G.R.              |
| 2017-18                      | 10389  |     | 1165   |       | 23       |       | 411       |         | 2937     |         | 3000   |      | 17924  |                   |
| 2018-19                      | 10782  | 3.8 | 1314   | 12.8  | 24       | 2.9   | 480       | 17.0    | 3235     | 10.2    | 3553   | 18.4 | 19388  | 8.2               |
| 2019-20                      | 11229  | 4.1 | 1468   | 11.7  | 24       | 2.9   | 551       | 14.6    | 3362     | 3.9     | 3703   | 4.2  | 20337  | 4.9               |
| 2020-21                      | 11678  | 4.0 | 1627   | 10.8  | 25       | 2.9   | 622       | 12.9    | 3516     | 4.6     | 3855   | 4.1  | 21322  | 4.8               |
| 2021-22                      | 12153  | 4.1 | 1790   | 10.0  | 26       | 2.9   | 693       | 11.5    | 3681     | 4.7     | 4007   | 3.9  | 22349  | 4.8               |
| 2022-23                      | 12667  | 4.2 | 1958   | 9.4   | 27       | 2.9   | 766       | 10.4    | 3890     | 5.7     | 4160   | 3.8  | 23467  | 5.0               |
| 2023-24                      | 13186  | 4.1 | 2131   | 8.8   | 27       | 2.9   | 839       | 9.5     | 4058     | 4.3     | 4313   | 3.7  | 24555  | 4.6               |
| 2024-25                      | 13710  | 4.0 | 2310   | 8.4   | 28       | 2.9   | 912       | 8.8     | 4183     | 3.1     | 4468   | 3.6  | 25612  | 4.3               |
| 2025-26                      | 14240  | 3.9 | 2493   | 8.0   | 29       | 2.9   | 987       | 8.2     | 4310     | 3.0     | 4623   | 3.5  | 26682  | 4.2               |
| 2026-27                      | 14775  | 3.8 | 2683   | 7.6   | 30       | 2.9   | 1062      | 7.6     | 4438     | 3.0     | 4779   | 3.4  | 27766  | N)                |
| 2027-28                      | 15313  | 3.6 | 2878   | 7.3   | 31       | 2.9   | 1137      | 7.1     | 4568     | 2.9     | 4934   | 3.2  | 28861  | 3.9               |
| Aver(Growik -<br>(2018-2028) | 4.0%   |     | 9.5%   |       | 2.9%     |       | 10.7%     |         | 4.5%     |         | 5.1%   |      | 4.9%   |                   |

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-MEPCO Table 1-5: Consumer Category Wise Demand – MW without incorporating Load Shedding effect (Low Forecast)

| Veat                       | Domesi | lic. | comme  | rcial . | .:Public Light Smalkindustri |     | dustries M&L Industries |      | Tube W | lelt . | Total  |      |        |      |
|----------------------------|--------|------|--------|---------|------------------------------|-----|-------------------------|------|--------|--------|--------|------|--------|------|
| • <b>• •</b>               | Demand | G.R  | Demand | G.R     | Demand                       | G.R | Demand                  | G.R  | Demand | G.R    | Demand | G.R  | Demand | .G.R |
| 2017-18                    | 2231   | -    | 277    |         | 6                            |     | 43                      |      | 446    |        | 563    |      | 2932   |      |
| 2018-19                    | 2329   | 4.4  | 320    | 15.6    | 6                            | 2.9 | 51                      | 19.1 | 495    | 10.8   | 669    | 18.9 | 3184   | 8.6  |
| 2019-20                    | 2438   | 4.7  | 364    | 13.9    | 6                            | 2.9 | 60                      | 16.2 | 516    | 4.3    | 700    | 4.6  | 3363   | 5.6  |
| 2020-21                    | 2548   | 4.5  | 410    | 12.6    | 7                            | 2.9 | 68                      | 14.0 | 541    | 4.9    | 731    | 4.4  | 3547   | 5.5  |
| 2021-22                    | 2664   | 4.5  | 457    | 11.5    | . 7                          | 2.9 | 76                      | 12.4 | 567    | 4.9    | 762    | 4.3  | 3739   | 5.4  |
| 2022-23                    | 2788   | 4.7  | 506    | 10.6    | 7                            | 2.9 | 85                      | 11.2 | 601    | 5.9    | 793    | 4.1  | 3946   | 5.5  |
| 2023-24                    | 2914   | 4.5  | 556    | 9.9     | 7                            | 2.9 | 94                      | 10.1 | 628    | 4.5    | 825    | 4.0  | 4149   | 5.2  |
| 2024-25                    | 3041   | 4.4  | 608    | 9.3     | 7                            | 2.9 | 102                     | 9.3  | 649    | 3.4    | 857    | 3.8  | 4349   | 4.8  |
| 2025-26                    | 3169   | 4.2  | 661    | 8.7     | 8                            | 2.9 | 111                     | 8.6  | 670    | 3.3    | 888    | 3.7  | 4551   | 4.7  |
| 2026-27                    | 3299   | 4.1  | 715    | 8.3     | 8                            | 2.9 | 120                     | 8.0  | 692    | 3.2    | 920    | 3.6  | 4756   | 4.5  |
| 2027-28                    | 3429   | 3.9  | 772    | 7.9     | 8 •                          | 2.9 | 129                     | 7.4  | 713    | 3.2    | 952    | 3.5  | 4963   | 4.4  |
| Ave. Growth<br>(2018-2028) | 4.4%   |      | 10.8%  |         | 2.9%                         |     | 11.6%                   |      | 4.8%   |        | 5.4%   |      | 5.4%   |      |

| -MF    | $\mathbf{p}$ | C | $\cap$        |
|--------|--------------|---|---------------|
| TAL DO | 1            | v | $\mathcal{O}$ |

| Table 1-6: | Consumer | Category | Wise | Demand - | MW | (Base | Forecast | ) |
|------------|----------|----------|------|----------|----|-------|----------|---|
|------------|----------|----------|------|----------|----|-------|----------|---|

| Year D<br>2017-18<br>2018-19 | Domest | ic    | Commer | cial | Public Li | ght   | Small Indu | stries | M&L Indus | tries | Tube W | eli | Total  |      |
|------------------------------|--------|-------|--------|------|-----------|-------|------------|--------|-----------|-------|--------|-----|--------|------|
| ICAI                         | Demand | G.R   | Demand | G.R  | Demand    | G.R   | Demand     | G.R    | Demand    | G.R   | Demand | G.R | Demand | G.R  |
| 2017-18                      | 2608   |       | 324    |      | 7         |       | 50         |        | 522       |       | 660    |     | 3429   |      |
| 2018-19                      | 2334   | -10.5 | 318    | -1.7 | . 6       | -11.3 | 50         | 0.9    | 496       | -5.0  | 673    | 1.9 | 3190   | -7.0 |
| 2019-20                      | 2433   | 4.2   | 359    | 12.8 | 6         | 2.9   | 58         | 14.7   | 515       | 3.9   | 700    | 4.1 | 3352   | 5,1  |
| 2020-21                      | 2532   | 4.1   | 401    | 11.7 | 7         | 2.9   | 65         | 12.9   | 538       | 4.5   | 728    | 4.0 | 3519   | 5.0  |
| 2021-22                      | 2637   | 4.1   | 444    | 10.8 | 7         | 2.9   | 73         | 11.6   | 563       | 4.5   | 757    | 3.9 | 3693   | 4.9  |
| 2022-23                      | 2751   | 4.3   | 488    | 10.0 | 7         | 2.9   | 80         | 10.5   | 593       | 5.4   | 785    | 3.7 | 3881   | 5.1  |
| 2023-24                      | 2865   | 4.2   | 534    | 9.4  | 7         | 2.9   | 88         | 9.6    | 618       | 4.2   | 813    | 3.6 | 4066   | 4.8  |
| 2024-25                      | 2981   | 4.0   | 581    | 8.8  | 7         | 2.9   | 96         | 8.8    | 637       | 3.1   | 842    | 3.5 | 4248   | 4.5  |
| 2025-26                      | 3098   | 3.9   | 629    | 8.3  | 8         | 2.9   | 103        | 8.2    | 657       | 3.1   | 871    | 3.4 | 4432   | 4.3  |
| 2026-27                      | 3216   | 3.8   | 679    | 7.9  | 8         | 2.9   | 111        | 7.6    | 676       | 3.0   | 899    | 3.3 | 4619   |      |
| 2027-28                      | 3335   | 3.7   | 731    | 7.6  | 8         | 2.9   | 119        | 7.1    | 696       | 3.0   | 928    | 3.2 | 4808   | 4.1  |
| Ave. Growth<br>(2018-2028)   | 2.5%   |       | 8.5%   |      | 1.4%      |       | 9.1%       |        | 2.9%      |       | 3.5%   |     | 3.4%   |      |

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-MEPCO Table 1-7: Division-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (Division: Bahawal Pur)

| Year                       | Ener   | Energy Sale |       | Distribution Losses |       | n Losses | Generation | Load Factor | Peak<br>Demand |
|----------------------------|--------|-------------|-------|---------------------|-------|----------|------------|-------------|----------------|
| rear                       | (GWh)  | G.R.(%)     | (GWh) | %                   | (GWh) | %        | (GWh)      | %           | (MW)           |
| 2017-18                    | 5390   |             | 944   | 14.91               | 151   | 2.34     | 6486       | 53.0        | 1397           |
| 2018-19                    | 5852   | 8.55        | 1019  | 14.84               | 164   | 2.32     | 7034       | 53.1        | 1512           |
| 2019-20                    | 6190   | 5.78        | 1071  | 14.75               | 172   | 2.32     | 7432       | 53.1        | 1598           |
| 2020-21                    | 6558   | 5.94        | 1122  | 14.61               | 181   | 2.31     | 7861       | 53.1        | 1689           |
| 2021-22                    | 6945   | 5.91        | 1174  | 14.46               | 191   | 2.30     | 8310       | 53.2        | 1784           |
| 2022-23                    | 7393   | 6.44        | 1228  | 14.25               | 202   | 2.29     | 8823       | 53.2        | 1892           |
| 2023-24                    | 7801   | 5.52        | 1283  | 14.12               | 212   | 2.28     | 9296       | 53.2        | 1993           |
| 2024-25                    | 8171   | 4.73        | 1337  | 14.07               | 221   | 2.27     | 9729       | 53.2        | 2088           |
| 2025-26                    | 8545   | 4.58        | 1392  | 14.01               | 230   | 2.26     | 10166      | .53.2       | 2183           |
| 2026-27                    | 8923   | 4.43        | 1447  | 13.95               | 239   | 2.25     | 10609      | 53.1        | 2280           |
| 2027-28                    | 9303   | 4.25        | 1501  | 13.89               | 247   | 2.24     | 11051      | 53.1        | 2377           |
| Ave. Growth<br>(2018-2028) | 5.61 % |             |       |                     |       |          | 5.47 %     |             | 5.46 %         |

-MEPCO Table 1-8: Division-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (Division: D.G.Khan)

| Year                    | Energy Sale |         | Distribution Losses |       | Transmiss | ion Losses | Generation | Load Factor | Peak<br>Demar 😧 |
|-------------------------|-------------|---------|---------------------|-------|-----------|------------|------------|-------------|-----------------|
|                         | (GWh)       | G.R.(%) | (GWh)               | %     | (GWh)     | %          | (GWh)      | %           | (MW)            |
| 2017-18                 | 3221        |         | 505                 | 13.54 | 89        | 2.34       | 3815       | 54.8        | 794             |
| 2018-19                 | 3495        | 8.51    | 550                 | 13.59 | 96        | 2.32       | 4141       | 54.7        | 864             |
| 2019-20                 | 3718        | 6.36    | 585                 | 13.59 | 102       | 2.32       | 4405       | 54.5        | 923             |
| 2020-21                 | 3943        | 6.06    | 620                 | 13.59 | 108       | 2.31       | 4671       | 54.2        | 983             |
| 2021-22                 | 4175        | 5.89    | 656                 | 13.59 | 114       | 2.30       | 4945       | 54.0        | 1045            |
| 2022-23                 | 4417        | 5.79    | 694                 | 13.58 | 120       | 2.29       | 5230       | 53.8        | 1110            |
| 2023-24                 | 4662        | 5.55    | 731                 | 13.56 | 126       | 2.28       | 5519       | 53.6        | 1175            |
| 2024-25                 | 4911        | 5.33    | 769                 | 13.53 | 132       | 2.27       | 5811       | 53.4        | 1242            |
| 2025-26                 | 5163        | 5.14    | 806                 | 13.51 | 138       | 2.26       | 6107       | 53.3        | 1309            |
| 2026-27                 | 5419        | 4.96    | 844                 | 13.48 | 144       | 2.25       | 6407       | 53.1        | 1378            |
| 2027-28                 | 5679        | 4.79    | 882                 | 13.44 | 150       | 2.24       | 6711       | 52.9        | 1447            |
| Ave. Growth (2018-2028) | 5.83 %      |         | -                   |       |           |            | 5.81 %     |             | 6.18 %          |

-MEPCO Table 1-9: Division-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (Division: Multan)

| Year                       | Ener   | Energy Sale |       | Distribution Losses |       | ı Losses | Generation | Load Factor | Peak<br>Demand |
|----------------------------|--------|-------------|-------|---------------------|-------|----------|------------|-------------|----------------|
|                            | (GWh)  | G.R.(%)     | (GWh) | %                   | (GWh) | %        | (GWh)      | %           | (MVV)          |
| 2017-18                    | 6965   |             | 1203  | 14.72               | 195   | 2.34     | 8363       | 54.3        | 1757           |
| 2018-19                    | 7511   | 7.84        | 1291  | 14.67               | 209   | 2.32     | 9012       | 54.4        | 1889           |
| 2019-20                    | 7821   | 4.13        | 1337  | 14.60               | 217   | 2.32     | 9376       | 54.4        | 1969           |
| 2020-21                    | 8135   | 4.00        | 1384  | 14.54               | _ 225 | 2.31     | 9743       | 54.3        | 2049           |
| 2021-22                    | 8459   | 3.99        | 1431  | 14.47               | 232   | 2.30     | 10123      | 54.2        | 2132           |
| 2022-23                    | 8801   | 4.04        | 1481  | 14.40               | 241   | 2.29     | 10522      | 54.1        | 2220           |
| 2023-24                    | 9146   | 3.93        | 1531  | 14.34               | 249   | 2.28     | 10926      | 54.0        | 2308           |
| 2024-25                    | 9496   | 3.82        | 1581  | 14.27               | 257   | 2.27     | 11334      | 54.0        | 2397           |
| 2025-26                    | 9850   | 3.73        | 1630  | 14.20               | 265   | 2.26     | 11746      | 53.9        | 2488           |
| 2026-27                    | 10208  | 3.64        | 1680  | 14.13               | 273   | 2        | 12162      | 53.8        | 2579           |
| 2027-28                    | 10571  | 3.55        | 1730  | 14.06               | 282   | 2.24     | 12583      | 53.8        | 2671           |
| Ave. Growth<br>(2018-2028) | 4.26 % |             |       |                     |       |          | 4.17 %     |             | 4.28 %         |

-MEPCO Table 1-10: Division-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (Division: Sahiwal)

| Vear                       | Ener   | gy Sale  | Distributio | on Losses | Transmission Lo | osses | Generation | Load Factor | Peak<br>Demand |
|----------------------------|--------|----------|-------------|-----------|-----------------|-------|------------|-------------|----------------|
|                            | (GWh)  | .G.R.(%) | (GWh)       | %         | (GWh)           | %     | (GWh)      | %           | (MVV)          |
| 2017-18                    | 2348   |          | 411         | 14.91     | 66              | 2     | 2825       | 48.9        | 659            |
| 2018-19                    | 2530   | 7.79     | 441         | 14.84     | 71              | 2     | 3042       | 49.3        | 705            |
| 2019-20                    | 2608   | 3.08     | 452         | 14.76     | 73              | 2     | 3133       | 49.1        | 728            |
| 2020-21                    | 2687   | 3.02     | 463         | 14.69     | 74              | 2     | 3224       | 49.0        | 751            |
| 2021-22                    | 2769   | 3.06     | 474         | 14.62     | 76              | 2     | 3319       | 48.9        | 775            |
| 2022-23                    | 2856   | 3.15     | 486         | 14.54     | 78              | 2     | 3421       | 48.8        | 800            |
| 2023-24                    | 2945   | 3.09     | 498         | 14.47     | 80              | 2     | 3523       | 48.7        | 826            |
| 2024-25                    | 3034   | 3.03     | 510         | 14.40     | 82              | 2     | 3626       | 48.6        | 852            |
| 2025-26                    | 3124   | 2.98     | 522         | 14.32     | 84              | 2     | 3731       | 48.5        | 879            |
| 2026-27                    | 3216   | 2.93     | 534         | 14.25     | 86              | 2     | 3836       | 48.4        | 905            |
| 2027-28                    | 3308   | 2.88     | 547         | 14.18     | 88              | 2     | 3943       | 48.3        | 932            |
| Ave. Growth<br>(2018-2028) | 3.49 % |          |             |           |                 |       | 3.39 %     |             | 3.53 %         |

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| Year                       | Energy | y Sale  | Distributio | n Losses . Transmission Lo |         | Losses | Generation | Load Factor | Peak Demand |
|----------------------------|--------|---------|-------------|----------------------------|---------|--------|------------|-------------|-------------|
|                            | (GWh)  | G.R.(%) | (GWh)       | %                          | (GWh)   | %      | (GWh)      | %           | (MVV)       |
| 2017-18                    | 1180   |         | 207         | 14.91                      | 33      | 2.34   | 1419       | 54.0        | 300         |
| 2018-19                    | 1310   | 11.07   | 228         | 14.84                      | 37      | 2.32   | 1575       | 54.2        | 332         |
| 2019-20                    | 1420   | 8.38    | 246         | 14.76                      | 39      | 2.32   | 1705       | 54.2        | 359         |
| 2020-21                    | 1531   | 7.80    | 264         | 14.69                      | 42      | 2.31   | 1837       | 54.2        | 387         |
| 2021-22                    | 1644   | 7.43    | 281         | 14.62                      | 45      | 2.30   | 1971       | 54.2        | 415         |
| 2022-23                    | 1762   | 7.18    | 300         | 14.54                      | 48      | 2.29   | 2110       | 54.2        | 444         |
| 2023-24                    | 1882   | 6.77    | 318         | 14.47                      | 51      | 2.28   | 2251       | 54.2        | 474         |
| 2024-25                    | 2002   | 6.42    | 337         | 14.40                      | 54      | 2.27   | · 2393     | 54.2        | 504         |
| 2025-26                    | 2125   | 6.10    | 355         | 14.32                      | 57      | 2.26   | 2537       | 54.2        | 534         |
| 2026-27                    | 2248   | 5.82    | 374         | .14.25                     | • 60    | 2.25   | 2682       | 54.2        | 565         |
| 2027-28                    | 2373   | 5.56    | 392         | 14.18                      | 63      | 2.24   | 2828       | 54.2        | 595         |
| Ave. Growth<br>(2018-2028) | 7.24%  | ¥1.5    | -           |                            | · · · · |        | 7.14%      |             | 7.10%       |

Table 1-11: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District:Bahawal Nagar)

|             |   |              | ~ / |     |
|-------------|---|--------------|-----|-----|
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| Trans. A.c. |   | •            | ~ ` | ,   |

Table 1-12: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District:Bahawal Pur)

| Year                       | Energ | y Sale  | Distribution | Losses | Transmissi | on Losses | Generation | Load Factor | Peak<br>Demand |
|----------------------------|-------|---------|--------------|--------|------------|-----------|------------|-------------|----------------|
|                            | (GWh) | G.R.(%) | (GWh)        | %      | (GWh)      | %         | (GWh)      | %           | (MW)           |
| 2017-18                    | 1608  |         | 282          | 14.91  | 45         | 2.34      | 1935       | 51.8        | 426            |
| 2018-19                    | 1700  | 5.69    | 296          | 14.84  | 47         | 2.32      | 2043       | 51.9        | 450            |
| 2019-20                    | 1761  | 3.61    | 305          | 14.76  | 49         | 2.32      | 2115       | 51.8        | 466            |
| 2020-21                    | 1823  | 3.51    | 314          | 14.69  | 50         | 2.31      | 2187       | 51.8        | 482            |
| 2021-22                    | 1888  | 3.56    | 323          | 14.62  | 52         | 2.30      | 2263       | 51.8        | 499            |
| 2022-23                    | 1957  | 3.66    | 333          | 14.54  | 54         | 2.29      | 2343       | 51.7        | 517            |
| 2023-24                    | 2027  | 3.57    | 343          | 14.47  | 55         | 2.28      | 2425       | 51.7        | 536            |
| 2024-25                    | 2097  | 3.49    | 353          | 14.40  | 57         | 2.27      | 2507       | 51.6        | 554            |
| 2025-26                    | 2169  | 3.41    | 363          | 14.32  | 58         | 2.26      | 2590       | 51.6        | 573            |
| 2026-27                    | 2241  | 3.34    | 372          | 14.25  | 60         | 2.25      | 2674       | 51.6        | 592            |
| 2027-28                    | 2314  | 3.27    | 382          | 14.18  | 62         | 2.24      | 2758       | 51.5        | 611            |
| Ave. Growth<br>(2018-2028) | 3.71% |         |              |        |            |           | 3.61%      |             | 3.67%          |

-MEPCO Table 1-13: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District:Rahim Yar Khan)

| Voor                       | Energy | y Sale  | Distributio | on Losses | Transmissio | n Losses | Generation | +<br>Load Factor | Peak<br>Demand |
|----------------------------|--------|---------|-------------|-----------|-------------|----------|------------|------------------|----------------|
| l Cal                      | (GWh)  | G.R.(%) | (GWh)       | %         | (GWh)       | %        | (GWh)      | %                | (MW)           |
| 2017-18                    | 1890   |         | 331         | 14.91     | 53          | 2.34     | 2275       | 52.0             | 500            |
| 2018-19                    | 2060   | 8.99    | 359         | 14.84     | 58          | 2.32     | 2477       | 52.0             | 544            |
| 2019-20                    | 2198   | 6.67    | 379         | 14.71     | 61          | 2.32     | 2638       | 51.9             | 580            |
| 2020-21                    | 2363   | 7.53    | 399         | 14.46     | 65          | 2.31     | 2828       | 52.0             | 621            |
| 2021-22                    | 2542   | 7.56    | 420         | 14.19     | 70          | 2.30     | 3032       | 52.0             | 665            |
| 2022-23                    | 2770   | 8.98    | 442         | 13.75     | 75          | 2.29     | 3287       | 52.2             | 719            |
| 2023-24                    | 2957   | 6.74    | 463         | 13.54     | 80          | 2.28     | 3500       | 52.2             | 765            |
| 2024-25                    | 3102   | 4.91    | 485         | 13.52     | 83          | 2.27     | 3670       | 52.1             | 804            |
| 2025-26                    | 3250   | 4.75    | 507         | 13.49     | 87          | 2.26     | 3843       | 52.0             | 843            |
| 2026-27                    | 3399   | 4.60    | 529         | 13.46     | 90          | 2.25     | 4018       | 51.9             | 883            |
| 2027-28                    | 3551   | 4.47    | 550         | 13.42     | 94          | 2.24     | 4195       | 51.8             | 924            |
| Ave. Growth<br>(2018-2028) | 6.51%  |         |             | -         |             |          | 6.31%      |                  | 6.34%          |

| -MEPCO           |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
| Table 1-14: Dist | trict-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District:Lodhran) |

| Year                       | Energy | y Sale  | Distributio | on Losses | Transmissio | n Losses | Generation | Load Factor | Peak<br>Demand |
|----------------------------|--------|---------|-------------|-----------|-------------|----------|------------|-------------|----------------|
|                            | (GWh)  | G.R.(%) | (GWh)       | %         | (GWh)       | %        | (GWh)      | %           | (MW)           |
| 2017-18                    | 712    |         | 125         | 14.91     | 20          | 2.34     | 857        | 45.1        | 217            |
| 2018-19                    | 782    | 9.70    | 136         | 14.84     | 22          | 2.32     | 940        | 45.5        | 236            |
| 2019-20                    | 811    | 3.78    | 140         | 14.76     | 23          | 2.32     | 974        | 45.4        | 245            |
| 2020-21                    | 841    | 3.67    | 145         | 14.69     | 23          | 2.31     | 1009       | 45.3        | 254            |
| 2021-22                    | 872    | 3.65    | 149         | 14.62     | 24          | 2.30     | 1045       | 45.3        | 264            |
| 2022-23                    | 904    | 3.69    | 154         | 14.54     | 25          | 2.29     | 1082       | 45.2        | 274            |
| 2023-24                    | 936    | 3.59    | 158         | 14.47     | 26          | 2.28     | 1120       | 45.1        | 284            |
| 2024-25                    | 969    | 3.49    | 163         | . 14.40   | 26          | 2.27     | 1158       | 45.0        | 294            |
| 2025-26                    | 1002   | 3.41    | 168         | 14.32     | 27          | 2.26     | 1196       | 44.9        | 304            |
| 2026-27                    | 1035   | 3.33    | 172         | 14.25     | 28          | 2.25     | 1235       | 44.8        | 315            |
| 2027-28                    | 1065   | 2.85    | 176         | 14.18     | 28          | 2.24     | 1269       | 44.7        | 324            |
| Ave. Growth<br>(2018-2028) | 4.10%  |         |             |           |             |          | 4.00%      |             | 4.08%          |

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MEPCO Table 1-15: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District:D.G. Khan)

| Year                       | Energy | <b>/</b> Sale | Distributio | on Losses | Transmissio | n Losses | Generation | Load Factor | Peak<br>Demand |
|----------------------------|--------|---------------|-------------|-----------|-------------|----------|------------|-------------|----------------|
|                            | (GWh)  | G.R.(%)       | (GWh)       | %         | (GWh)       | %        | (GWh)      | - %         | (MW)           |
| 2017-18                    | 965    |               | 155         | 13.86     | 27          | 2.34     | 1147       | 56.1        | 233            |
| 2018-19                    | 1010   | 4.73          | 162         | 13.84     | 28          | 2.32     | 1201       | 56.1        | 244            |
| 2019-20                    | 1036   | 2.52          | 166         | 13.79     | 28          | 2.32     | 1230       | 56.0        | 251            |
| 2020-21                    | 1061   | 2.48          | 169         | 13.75     | 29          | 2.31     | 1260       | 56.0        | 257            |
| 2021-22                    | 1089   | 2.55          | 173         | 13.70     | 30          | 2.30     | 1291       | 55.9        | 264            |
| 2022-23                    | 1118   | 2.69          | 177         | 13.66     | 30          | 2.29     | 1325       | 55.9        | 271            |
| 2023-24                    | 1147   | 2.65          | 181         | 13.61     | 31          | 2.28     | 1359       | 55.8        | 278            |
| 2024-25                    | 1177   | 2.61          | 185         | 13.56     | 32          | 2.27     | 1394       | 55.8        | 285            |
| 2025-26                    | 1208   | 2.58          | 189         | 13.52     | 32          | 2.26     | 1429       | 55.7        | 293            |
| 2026-27                    | 1238   | 2.54          | 193         | 13.47     | 33          | 2.25     | 1464       | 55.7        | 300            |
| 2027-28                    | 1270   | 2.51          | 197         | 13.41     | 34          | 2.24     | 1500       | 55.7        | 308            |
| Ave. Growth<br>(2018-2028) | 2.78%  |               |             |           |             |          | 2.72%      |             | 2.81%          |

Table 1-16: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Layyah)

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| Year                       | Energy | Sale:   | Distributio | n Losses | Transmissio | n Losses | Generation | L'öad Factor | Peak<br>Demand |
|----------------------------|--------|---------|-------------|----------|-------------|----------|------------|--------------|----------------|
| rear                       | (GWh)  | G.R.(%) | (GWh)       | %        | (GWh)       | %        | (GWh)      | %            | (MW)           |
| 2017-18                    | 621    |         | 106         | 14.63    | 17          | 2.34     | 745        | 52.5         | 162            |
| 2018-19                    | 656    | 5.62    | 112         | 14.57    | 18          | 2.32     | 786        | 52.5         | 171            |
| 2019-20                    | 684    | 4.27    | 116         | 14.51    | 19          | 2.32     | 819        | 52.3         | 179            |
| 2020-21                    | 712    | 4.14    | 120         | 14.45    | 20          | 2.31     | 852        | 52.1         | 187            |
| 2021-22                    | 742    | 4.15    | 125         | 14.39    | 20          | 2.30     | 887        | 51.9         | 195            |
| 2022-23                    | 773    | 4.23    | 129         | 14.32    | 21          | 2.29     | 924        | 51.8         | 204            |
| 2023-24                    | 805    | 4.11    | 134         | 14.26    | 22          | 2.28     | 961        | 51.6         | 212            |
| 2024-25                    | 837    | 4.00    | 139         | 14.20    | 51          | 2.27     | 998        | 51.5         | 221            |
| 2025-26                    | 870    | 3.90    | 143         | 14.13    | 23          | 2.26     | 1036       | 51.3         | 230            |
| 2026-27                    | 903    | 3.80    | 148         | 14.07    | 24          | 2.25     | 1075       | 51.2         | 240            |
| 2027-28                    | 936    | 3.72    | 152         | 14.00    | 25          | 2.24     | 1114       | 51.1         | 249            |
| Ave. Growth<br>(2018-2028) | 4.19%  |         |             |          |             |          | 4.11%      |              | 4.39%          |

-MEPCO Table 1-17: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Muzaffar Garh)

|   | Voar                       | Energ | y Sale  | Distributi | on Losses | Transmissio | n Losses | Generation | Load Factor | Peak<br>Demand |
|---|----------------------------|-------|---------|------------|-----------|-------------|----------|------------|-------------|----------------|
| 3 |                            | (GWh) | G.R.(%) | (GWh)      | %         | (GWh)       | %        | (GWh)      | %           | (MW)           |
|   | 2017-18                    | 1286  |         | 185        | 12.56     | 35          | 2.34     | 1506       | 53.1        | 324            |
|   | 2018-19                    | 1466  | 14.01   | 215        | 12.79     | 40          | 2.32     | 1721       | 52.9        | 372            |
|   | 2019-20                    | 1626  | 10.93   | 242        | 12.93     | 44          | 2.32     | 1912       | 52.4        | 416            |
|   | 2020-21                    | 1789  | 9.98    | 268        | 13.04     | 49          | 2.31     | 2106       | 52.1        | 462            |
|   | 2021-22                    | 1955  | 9.28    | 295        | 13.11     | 53          | 2.30     | 2303       | 51.7        | 508            |
| * | 2022-23                    | 2126  | 8.73    | 322        | 13.17     | 57          | 2.29     | 2505       | 51.5        | 556            |
| - | 2023-24                    | 2299  | 8.15    | 350        | 13.21     | 62          | 2.28     | 2710       | 51.2        | 604            |
|   | 2024-25                    | 2475  | 7.65    | 377        | 13.23     | 66          | 2.27     | 2918       | 51.0        | 653            |
|   | 2025-26                    | 2653  | 7.21    | 405        | 13.24     | 71          | 2.26     | 3129       | 50.8        | 703            |
| - | 2026-27                    | 2834  | 6.83    | 433        | 13.24     | 75          | 2.25     | 3342       | 50.6        | 754            |
| 0 | 2027-28                    | 3018  | 6.49    | 460        | 13.23     | 80          | 2.24     | 3559       | 50.4        | 806            |
|   | Ave. Growth<br>(2018-2028) | 8.91% |         |            |           |             |          | 8.98%      |             | 9.55%          |

-MEPCO Table 1-18: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Rajan Pur)

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| Year                       | Energy | y Sale  | Distributio | in Losses | . Transmissio | n Losses | Generation | Load Factor | Peak<br>Demand |
|----------------------------|--------|---------|-------------|-----------|---------------|----------|------------|-------------|----------------|
|                            | (GWh)  | G.R.(%) | (GWh)       | %         | (GWh)         | %        | (GWh)      | %           | (MW)           |
| 2017-18                    | 349    |         | 58          | 14.31     | 10            | 2.34     | 418        | 47.1        | 101            |
| 2018-19                    | 363    | 3.82    | 60          | 14.26     | 10            | 2.32     | 433        | 47.2        | 105            |
| 2019-20                    | 372    | 2.42    | 62          | 14.20     | 10            | 2.32     | 443        | 47.1        | 107            |
| 2020-21                    | 380    | 2.39    | 63          | 14.15     | 10            | 2.31     | 454        | 47.0        | 110            |
| 2021-22                    | 390    | 2.49    | 64          | 14.09     | 11            | 2.30     | 465        | 47.0        | 113            |
| 2022-23                    | 400    | 2.65    | 65          | 14.03     | 11            | 2.29     | 476        | 46.9        | 116            |
| 2023-24                    | 411    | 2.62    | 67          | 13.98     | 11            | 2.28     | 489        | 46.8        | 119            |
| 2024-25                    | 421    | 2.59    | 68          | 13.92     | 11            | 2.27     | 501        | 46.8        | 122            |
| 2025-26                    | 432    | 2.56    | 70          | 13.86     | 12            | 2.26     | 513        | 46.7        | 125            |
| 2026-27                    | 443    | 2.53    | 71          | 13.80     | 12            | 2.25     | 526        | 46.7        | 129            |
| 2027-28                    | 454    | 2.50    | 72          | 13.74     | 12            | 2.24     | 538        | 46.6        | 132            |
| Ave. Growth<br>(2018-2028) | 2.66%  |         |             |           |               |          | 2.58%      |             | 2.68%          |

-MEPCO Table 1-19: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Khane Wal)

| Year                       | Energ | y Sale  | Distributio | on Losses | Transmissio | n Losses | Generation | neration Load Factor |       |
|----------------------------|-------|---------|-------------|-----------|-------------|----------|------------|----------------------|-------|
|                            | (GWh) | G.R.(%) | (GWh)       | %         | (GWh)       | %a       | (GWh)      | %                    | (MW)  |
| 2017-18                    | 1543  |         | 270         | 14.91     | 43          | 2.34     | 1857       | 53.5                 | 396   |
| 2018-19                    | 1652  | 7.05    | 288         | 14.84     | 46          | 2.32     | 1986       | 53.6                 | 423   |
| 2019-20                    | 1708  | 3.39    | 296         | 14.76     | 47          | 2.32     | 2051       | 53.6                 | 437   |
| 2020-21                    | 1764  | 3.30    | 304         | 14.69     | 49          | 2.31     | 2117       | 53.5                 | 451   |
| 2021-22                    | 1823  | 3.33    | 312         | 14.62     | 50          | 2.30     | 2186       | 53.5                 | 466   |
| 2022-23                    | 1886  | 3.42    | 321         | 14.54     | 52          | 2.29     | 2258       | 53.5                 | 482   |
| 2023-24                    | 1949  | 3.35    | 330         | 14.47     | 53          | 2.28     | 2332       | 53.4                 | 498   |
| 2024-25                    | 2013  | 3.27    | 339         | 14.40     | 55          | 2.27     | 2406       | 53.4                 | 514   |
| 2025-26                    | 2077  | 3.21    | 347         | 14.32     | 56          | 2.26     | 2480       | 53.4                 | 531   |
| 2026-27                    | 2142  | 3.14    | 356         | 14.25     | 57          | 2.25     | 2556       | 53.3                 | 547   |
| 2027-28                    | 2208  | 3.08    | 365         | 14.18     | 59          | 2.24     | 2632       | 53.3                 | 564   |
| Ave. Growth<br>(2018-2028) | 3.65% |         |             |           |             |          | 3.55%      |                      | 3.60% |

Table 1-20: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Multan)

| Year                       | Energy Sa<br>Year |         | Distributio | n Losses | Transmissio | Transmission Losses |       | Load Factor | . Peak<br>Demand |
|----------------------------|-------------------|---------|-------------|----------|-------------|---------------------|-------|-------------|------------------|
|                            | (GWh)             | G.R.(%) | (GWh)       | %        | (GWh)       | %                   | (GWh) | %           | (MW)             |
| 2017-18                    | 3650              |         | 622         | 14.56    | 102         | 2.34                | 4374  | 56.2        | . 888            |
| 2018-19                    | 3908              | 7.06    | 663         | 14.51    | 109         | 2.32                | 4680  | 56.2        | 950              |
| 2019-20                    | 4064              | 3.99    | 687         | 14.45    | 113         | 2.32                | 4863  | 56.1        | 989              |
| 2020-21                    | 4221              | 3.88    | 710         | 14.39    | 116         | 2.31                | 5048  | 56.0        | 1029             |
| 2021-22                    | 4385              | 3.88    | 734         | 14.33    | 120         | 2.30                | 5239  | 55.9        | 1070             |
| 2022-23                    | 4558              | 3.94    | 759         | 14.27    | 124         | 2.29                | 5441  | 55.8        | 1114             |
| 2023-24                    | 4733              | 3.84    | 784         | 14.21    | 129         | 2.28                | 5645  | 55.7        | 1158             |
| 2024-25                    | 4910              | 3.74    | 809         | 14.15    | 133         | 2.27                | 5852  | 55.5        | 1203             |
| 2025-26                    | 5089              | 3.65    | 834         | 14.08    | 137         | 2.26                | 6060  | 55.5        | 1248             |
| 2026-27                    | 5271              | 3.57    | 860         | 14.02    | 141         | 2.25                | 6272  | 55.4        | 1293             |
| 2027-28                    | 5455              | 3.49    | 885         | 13.96    | 145         | 2.24                | 6485  | 55.3        | 1339             |
| Ave. Growth<br>(2018-2028) | 4.10%             |         | ,<br>,      |          |             |                     | 4.02% |             | 4.20%            |

 $f_{i} \geq 1$ 

# -MEPCO Table 1-21: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Vehari)

| Year        | Energy Sale |         | Distribution Losses |       | Transmissic | n Losses | Generation | Load Factor | Peak<br>Demand |
|-------------|-------------|---------|---------------------|-------|-------------|----------|------------|-------------|----------------|
| Tear        | (GWh)       | G.R.(%) | (GWh)               | %     | (GWh)       | %        | ່ (GWh)    | %           | (MVV)          |
| 2017-18     | 1772        |         | 310                 | 14.91 | 50          | 2.34     | 2132       | 45.9        | 530            |
| 2018-19     | 1951        | 10.14   | 340                 | 14.84 | 55          | 2.32     | 2346       | 46.3        | 578            |
| 2019-20     | 2050        | 5.04    | 355                 | 14.76 | 57          | 2.32     | 2461       | 46.3        | 607            |
| 2020-21     | 2149        | 4.84    | 370                 | 14.69 | 59          | 2.31     | 2578       | 46.3        | 635            |
| 2021-22     | 2251        | 4.75    | 385                 | 14.62 | 62          | 2.30     | 2698       | 46.3        | 665            |
| 2022-23     | 2357        | 4.73    | 401                 | 14.54 | 65          | 2.29     | 2823       | 46.3        | 696            |
| 2023-24     | 2465        | 4.57    | 417                 | 14.47 | 67          | 2.28     | 2949       | 46.3        | 727            |
| 2024-25     | 2574        | 4.42    | 433                 | 14.40 | 70          | 2.27     | 3077       | 46.3        | 759            |
| 2025-26     | 2684        | 4.28    | 449                 | 14.32 | 72          | 2.26     | 3205       | 46.3        | 791            |
| 2026-27     | 2795        | 4.14    | 465                 | 14.25 | 75          | 2.25     | 3335       | 46.3        | 823            |
| 2027-28     | 2908        | 4.02    | 480                 | 14.18 | 78          | 2.24     | 3466       | 46.3        | 855            |
| Ave. Growth | 5.08%       |         |                     |       |             |          | 4.98%      |             | 4.90%          |

-MEPCO Table 1-22: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Sahiwal)

| Year                     | Energy Sale |         | Distribution Losses |       | Transmissio | n Losses | Generation | Load Factor | Peak<br>Demand |
|--------------------------|-------------|---------|---------------------|-------|-------------|----------|------------|-------------|----------------|
|                          | (GWh)       | G.R.(%) | (GWh)               | %     | (GWh)       | %        | (GWh)      | %           | (MW)           |
| 2017-18                  | 1751        |         | 307                 | 14.91 | 49          | 2.34     | 2107       | 48.5        | 496            |
| 2018-19                  | 1873        | 6.95    | 326                 | 14.84 | 52          | 2.32     | 2252       | 48.8        | 526            |
| 2019-20                  | 1927        | 2.89    | 334                 | 14.76 | 54          | 2.32     | 2315       | 48.8        | 541            |
| 2020-21                  | 1982        | 2.84    | 341                 | 14.69 | 55          | 2.31     | 2378       | 48.8        | 557            |
| 2021-22                  | 2039        | 2.89    | 349                 | 14.62 | 56          | 2.30     | 2445       | 48.7        | 573            |
| 2022-23                  | 2101        | 3.00    | 358                 | 14.54 | 58          | 2.29     | 2516       | 48.7        | 590            |
| 2023-24                  | 2163        | 2.95    | 366                 | 14.47 | 59          | 2.28     | 2588       | 48.6        | 607            |
| 2024-25                  | 2225        | 2.90    | 374                 | 14.40 | 60          | 2.27     | 2660       | 48.6        | 625            |
| 2025-26                  | 2289        | 2.86    | 383                 | 14.32 | 62          | 2.26     | 2733       | 48.5        | 643            |
| 2026-27                  | 2353        | 2.81    | 391                 | 14.25 | 63          | 2.25     | 2808       | 48.5        | 661            |
| 2027-28                  | 2418        | 2.77    | 400                 | 14.18 | 65          | 2.24     | 2883       | 48.4        | 679            |
| ve. Growth<br>2018-2028) | 3.28%       |         |                     |       |             |          | 3.18%      |             | 3.19%          |

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-MEPCO Table 1-23: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Pak Pattan)

| Year                    | Energy Sale |         | Distribution Losses |       | Transmissio | n Losses | Generation | Load Factor | Peak<br>Demand |
|-------------------------|-------------|---------|---------------------|-------|-------------|----------|------------|-------------|----------------|
|                         | (GWh)       | G.R.(%) | (GWh)               | _ %   | (GWh)       | %        | (GWh)      | %           | (NNV)          |
| 2017-18                 | 596         |         | 104                 | 14.91 | 17          | 2.34     | 717        | 44.4        | 184            |
| 2018-19                 | 657         | 10.23   | 114                 | 14.84 | 18          | 2.32     | 790        | 44.7        | 202            |
| 2019-20                 | 681         | 3.62    | 118                 | 14.76 | 19          | 2.32     | 818        | 44.5        | 210            |
| 2020-21                 | 705         | 3.52    | 121                 | 14.69 | 20          | 2.31     | 846        | 44.2        | 218            |
| 2021-22                 | 730         | 3.52    | 125                 | 14.62 | 20          | 2.30     | 875        | 44.0        | 227            |
| 2022-23                 | 756         | 3.56    | 129                 | 14.54 | 21          | 2.29     | 905        | 43.7        | 236            |
| 2023-24                 | 782         | 3.47    | 132                 | 14.47 | 21          | 2.28     | 935        | 43.5        | 246            |
| 2024-25                 | 808         | 3.39    | 136                 | 14.40 | 22          | 2.27     | 966        | 43.3        | 255            |
| 2025-26                 | 835         | 3.32    | 140                 | 14.32 | 23          | 2.26     | 997        | 43.1        | 264            |
| 2026-27                 | 862         | 3.25    | 143                 | 14.25 | 23          | 2.25     | 1029       | 42.9        | 274            |
| 2027-28                 | 890         | 3.18    | 147                 | 14.18 | 24          | 2.24     | 1060       | 42.7        | 283            |
| Ave. Growth (2018-2028) | 4.09%       |         |                     |       |             |          | 3.99%      |             | 4.40%          |

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Table 1-24: Monthly Peak Demand Forecast (Base Forecast)

| Vear    | July | August | September | October | November | December | January | February | March | April | May  | June |
|---------|------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|------|------|
|         | (MW) | (MVV)  | (MW)      | (MVY)   | (MW)     | (MW)     | (MW)    | (MW)     | (MW)  | (MVV) | (MW) | (MW) |
| 2017-18 | 3713 | 3872   | 3256      | 2643    | 1937     | 1762     | 1874    | 1889     | 2387  | 3005  | 3648 | 4112 |
| 2018-19 | 3799 | 3803   | 3469      | 3099    | 2152     | 2054     | 2139    | 2064     | 2243  | 2916  | 3479 | 3695 |
| 2019-20 | 3989 | 3992   | 3642      | 3254    | 2259     | 2156     | 2245    | 2166     | 2355  | 3062  | 3652 | 3879 |
| 2020-21 | 4183 | 4187   | 3819      | 3412    | 2369     | 2261     | 2355    | 2272     | 2470  | 3211  | 3830 | 4068 |
| 2021-22 | 4386 | 4389   | 4004      | 3577    | 2484     | 2370     | 2469    | 2382     | 2589  | 3366  | 4015 | 4265 |
| 2022-23 | 4604 | 4607   | 4203      | 3755    | 2607     | 2488     | 2592    | 2500     | 2718  | 3534  | 4215 | 4477 |
| 2023-24 | 4818 | 4822   | 4399      | 3930    | 2729     | 2604     | 2712    | 2617     | 2844  | 3698  | 4411 | 4686 |
| 2024-25 | 5030 | 5034   | 4592      | 4103    | 2849     | 2719     | 2831    | 2732     | 2969  | 3861  | 4605 | 4891 |
| 2025-26 | 5244 | 5248   | 4788      | 4277    | 2970     | 2834     | 2952    | 2848     | 3095  | 4025  | 4801 | 5099 |
| 2026-27 | 5460 | 5465   | 4985      | 4454    | 3093     | 2951     | 3074    | 2966     | 3223  | 4191  | 4999 | 5310 |
| 2027-28 | 5678 | 5683   | 5185      | 4632    | 3216     | 3069     | 3197    | 3084     | 3352  | 4359  | 5199 | 5522 |

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MEPCO Table 1-25: Monthly Energy Purchased Forecast (Base Forecast)

| Year    | July | August | September | October | November | December | January | February | March | April | May  | June | Total   |
|---------|------|--------|-----------|---------|----------|----------|---------|----------|-------|-------|------|------|---------|
|         | GWh  | GWh    | GWh       | GWh     | GWh      | GWh      | GWh     | GWh      | GWh   | GWh   | GWh  | GWh  | GWh     |
| 2017-18 | 2650 | 2650   | 2078      | 1693    | 1066     | 1090     | 1187    | 1065     | 1545  | 1834  | 2289 | 2340 | 21489   |
| 2018-19 | 2864 | 2864   | 2246      | 1830    | 1153     | 1178     | 1284    | 1151     | 1670  | 1983  | 2475 | 2530 | 23229   |
| 2019-20 | 3002 | 3002   | 2354      | 1918    | 1208     | 1235     | 1345    | 1207     | 1751  | 2078  | 2594 | 2652 | 24346   |
| 2020-21 | 3144 | 3144   | 2466      | 2009    | 1265     | 1293     | 1409    | 1264     | 1833  | 2177  | 2716 | 2777 | 25499   |
| 2021-22 | 3292 | 3292   | 2581      | 2104    | 1325     | 1354     | 1475    | 1323     | 1920  | 2279  | 2844 | 2908 | 26698   |
| 2022-23 | 3452 | 3452   | 2707      | 2206    | 1389     | 1420     | 1547    | 1388     | 2013  | 2390  | 2983 | 3049 | 27997   |
| 2023-24 | 3609 | 3609   | 2830      | 2306    | 1452     | 1484     | 1617    | 1451     | 2104  | 2498  | 3118 | 3187 | 29264   |
| 2024-25 | 3761 | 3761   | 2949      | 2403    | 1514     | 1547     | 1685    | 1512     | 2193  | 2603  | 3249 | 3322 | 30500 - |
| 2025-26 | 3915 | 3915   | 3070      | 2502    | 1576     | 1610     | 1754    | 1574     | 2283  | 2710  | 3382 | 3458 | 31750   |
| 2026-27 | 4071 | 4071   | 3192      | 2601    | 1638     | 1675     | 1824    | 1637     | 2374  | 2818  | 3517 | 3596 | 33014   |
| 2027-28 | 4228 | 4228   | 3315      | 2702    | 1702     | 1739     | 1895    | 1700     | 2465  | 2927  | 3653 | 3734 | 34287   |

-MEPCO Table 1-26: List of Overloaded Substations during Period 2017-18 to 2027-28Overloading Criterion=85%

| S.No. | Name            | . Rating | Grid # | Total<br>Capacity | Total<br>Capacity | Overloading<br>Criterion | Overtoading<br>Criterion | Year of<br>Overloading | Overloading<br>Status | Power- |
|-------|-----------------|----------|--------|-------------------|-------------------|--------------------------|--------------------------|------------------------|-----------------------|--------|
|       |                 | KV       | 時間内部にあ | (MVA)             | (MW)              | (MW)                     | (%)                      |                        | (MW)                  |        |
| 1     | Basti Malook    | 132      | 12     | 92                | 77.28             | 65.69                    | 85.00                    | 2026-27                | 64.00                 | 0.84   |
| 2     | Bonga Hayat     | 132      | 17     | 52                | 42.64             | 36.24                    | 85.00                    | 2017-18                | 31.90                 | 0.82   |
| 3     | Bosan Road      | 132      | 18     | 120               | 108.00            | 91.80                    | 85.00                    | 2017-18                | 89.10                 | 0.90   |
| 4     | Burewala        | 132      | 20     | 106               | 90.10             | 76.59                    | 85.00                    | 2023-24                | 74.80                 | 0.85   |
| 5     | Damar Wala      | 132      | 36     | 52                | 46.28             | 39.34                    | 85.00                    | 2022-23                | 39.20                 | 0.89   |
| 6     | Garah More      | 132      | 42     | 52                | 43.68             | 37.13                    | 85.00                    | 2020-21                | 35.40                 | 0.84   |
| 7     | Harappa         | 132      | 58     | 66                | 56,76             | 48.25                    | 85.00                    | 2018-19                | 47.50                 | 0.86   |
| 8     | Industrial Esta | 132      | 65     | 106               | 92.22             | 78.39                    | 85.00                    | 2017-18                | 76.30                 | 0.87   |
| 9     | Jahanian        | 132      | 69     | 79                | 66.36             | 56.41                    | 85.00                    | 2022-23                | 56.00                 | 0.84   |
| 10    | Jatoi           | 132      | 75     | 36                | 32.04             | 27.23                    | 85.00                    | 2017-18                | 21.30                 | 0.89   |
| 11    | KachaKhuh       | 132      | 88     | 78                | 64.74             | 55.03                    | 85,00                    | 2022-23                | 53.70                 | 0.83   |
| 12    | Bakhshan Khan   | 66       | 115    | 13                | 11.44             | 9.72                     | 85.00                    | 2025-26                | 9.40                  | 0.88   |
| 13    | Mehra Khas      | 132      | 131    | 52                | 46.28             | 39.34                    | 85.00                    | 2018-19                | 39.20                 | 0.89   |
| 14    | MESCO           | 132      | 132    | -120              | 108.00            | 91.80                    | 85.00                    | 2023-24                | 88.90                 | 0.90   |
| 15    | MianChannu      | 132      | 133    | 120               | 102.00            | 86.70                    | 85.00                    | 2018-19                | 85.70                 | 0.85   |
| 16    | Muzafar Garh    | 132      | 140    | 120               | 105.60            | 89.76                    | .85.00                   | 2019-20                | 85.60                 | 0.88   |
| 17    | Pak Pattan      | 132      | 154    | 120               | 100.80            | 85.68                    | 85.00                    | 2021-22                | 85.10                 | 0.84   |
| 18    | Qadirabad       | 132      | 166    | 39                | 34.71             | 29.50                    | 85.00                    | 2020-21                | 28.50                 | 0.89   |
| 19    | Qasim Pur       | 132      | 168    | 120               | 103.20            | 87.72                    | 85.00                    | 2017-18                | 83.40                 | 0.8    |
| 20    | R.Y.Khan        | 132      | 171    | 120               | 103.20            | 87.72                    | 85.00                    | 2017-18                | 91.70                 | 0.86   |
| 21    | Sadiqabad       | 132      | 181    | 120               | 102.00            | 86.70                    | 85.00                    | 2022-23                | 84.90                 | 0.85   |
| 22    | Sahiwal         | 132      | 183    | 92                | 79.12             | 67.25                    | 85.00                    | 2026-27                | 65.70                 | 0.86   |

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|-------------|----------------|--------|--------|-------------------|-------------------|--------------------------|--------------------------|-------------|-------------|--------|
| S.No.       | Name           | Rating | Grid # | Total<br>Capacity | Total<br>Capacity | Overloading<br>Criterion | Overloading<br>Criterion | Year of     | Overloading | Power  |
|             |                | ĸ٧     |        | (MVA)             | (MW)              | (MVV)                    | (%)                      | Overloading | (MW)        | Factor |
| 23          | Noor Pur       | 132    | 196    | 52                | 43.16             | 36.69                    | 85.00                    | 2024-25     | 36.20       | 0.83   |
| 24          | Taunsa         | 132    | 216    | 52                | 43.68             | 37.13                    | 85.00                    | 2022-23     | 35.90       | 0.84   |
| 25          | Vehari         | 132    | 219    | 92                | 77.28             | 65.69                    | 85.00                    | 2017-18     | 63.70       | 0.84   |
| 26          | Vehari Road    | 132    | 220    | 120               | 102.00            | 86.70                    | 85.00                    | 2024-25     | 85.30       | 0.85   |
| 27          | Ali Pur        | 132    | 229    | 39                | 34.32             | 29.17                    | 85.00                    | 2017-18     | 26.10       | 0.88   |
| 28          | Chishtian      | 66     | 253    | 15.5              | 13.95             | 11.86                    | 85.00                    | 2023-24     | 11.80       | 0.90   |
| - 29        | K.P.T          | 132    | 297    | 52                | 43.16             | 36.69                    | 85.00                    | 2025-26     | 35.50       | 0.83   |
| 30          | Lal Sohanra    | 132    | 313    | 13                | 10.92             | 9.28                     | 85.00                    | 2020-21     | 9.10        | 0.84   |
| 31          | Ludden         | 132    | 317    | 52                | 42.64             | 36.24                    | 85.00                    | 2019-20     | 34.60       | 0.82   |
| 32          | MecloadGunj    | · 66   | 327    | 26                | 23.14             | 19.67                    | 85.00                    | 2022-23     | 19.40       | 0,89   |
| 33          | Shuja Abad     | 132    | 374    | 92                | 77.23             | 65.69                    | 85.00                    | 2024-25     | 64.90       | Ü.84   |
| 34          | Head Sidnai    | 132    | 376    | 52                | 46.28             | 39.34                    | 85.00                    | 2023-24     | 39.00       | 0.89   |
| 35          | Uch Sharif     | 66     | 397    | 26                | 23.14             | 19.67                    | 85.00                    | 2017-18     | 21.90       | 0.89   |
| 36          | Hasilpur       | 132    | 472    | 66                | 56 10             | 47.69                    | 85.00 <sup>·</sup>       | 2019-20     | 47.20       | 0.85   |
| 37          | Feroza         | 132    | 530    | 26                | 23.14             | 19.67                    | 85.00                    | 2025-26     | 19.50       | 0.89   |
| .38         | Jamal Din Wali | 132    | 531    | 52                | 43.16             | 36.69                    | 85,00                    | 2017-18     | 36.10       | 0,83   |
| 39          | Khan Bela      | 132    | 533    | 52                | 46.28             | 39.34                    | 85.00                    | 2018-19     | 36.80       | 0.89   |
| 40          | MianwaliQuresh | 132    | 534    | 52                | 43.68             | 37.13                    | 85.00                    | 2017-18     | 35.70       | 0.84   |
| 41          | Sahuka         | 132    | 537    | 66                | 54.12             | 46.00                    | 85.00                    | 2022-23     | 46.00       | 0.82   |
| 42          | Chak No.83/12L | 132    | 538    | 52                | 43.16             | 36,69                    | 85.00                    | 2023-24     | 35.60       | 0.83   |
| 43          | Rang Pur       | 66     | 549    | 14                | 11.62             | 9.88                     | 85.00                    | 2023-24     | 9.50        | 0.83   |
| 44          | Sahiwal New    | 132    | 551    | 92                | 81.88             | 69.60                    | 85.00                    | 2024-25     | 68.20       | 0.89   |
| 45          | Mailsi         | 132    | 552    | 92                | 76.36             | 64.91                    | 85.00                    | 2019-20     | 64.70       | 0.83   |
| 46          | Yousaf Wala    | 220    | 584    | 52                | 44.72             | 38.01                    | 85.00                    | 2020-21     | 37.20       | 0.86   |

| CMW1         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thcont< th=""></thcont<></thcontrol<></thcontrol<> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 24.10       28.50       35.40       55.40       29.90       66.50       19.00       3.60       35.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 28.50       35.40       55.40       29.90       66.50       19.00       3.60       35.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 35.40           55.40           29.90           66.50           19.00           3.60           35.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 55.40           29.90           66.50           19.00           3.60           35.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 29.90<br>66.50<br>19.00<br>3.60<br>35.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 66.50<br>19.00<br>3.60<br>35.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 19.00<br>3.60<br>35.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 35.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 27.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 21.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 18.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 69.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 65.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 35.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 36.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 65.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 35.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 26.80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 36.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 47.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 18.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 25.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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-MEPCO Table 1-27: List of Overloaded Substations during Period 2017-18 to 2027-28 Overloading Criterion= 100%

| S.No.  | Name            | Rating    | Grid # | Total<br>Capacity | Total<br>Capacity | Overloading<br>Criterion | Overloading<br>Criterion | Year of<br>Overloading | Overloading<br>Status | Power<br>Factor |
|--------|-----------------|-----------|--------|-------------------|-------------------|--------------------------|--------------------------|------------------------|-----------------------|-----------------|
| 1      | Bonga Havat     | KV<br>132 | 17     | (MVA)<br>52       | (MW)              | (MW)                     | (%)                      | 2010 20                | (MVV)                 |                 |
| 2      | Bosan Road      | 132       | 18     | 120               | 108.00            | 108.00                   | 100.00                   | 2019-20                | 39.60                 | 0.82            |
| 3      | Burewala        | 132       | 20     | 106               | 90.10             | 90.10                    | 100.00                   | 2019-20                | 104.00                | 0.90            |
| 4      | Damar Wala      | 132       | 36     | 52                | 46.20             | 30.10                    | 100.00                   | 2017-10                | 96.60                 | 0.85            |
| 5      | Garah More      | 132       | 42     | 52                | 40.20             | 45.20                    | 100.00                   | 2023-24                | 43.20                 | 0.89            |
| 6      | Haranna         | 132       | 50     | 60                | 43.00<br>EC 70    | 43.00                    | 100.00                   | 2023-24                | 42.30                 | 0.84            |
|        | Industrial Cate | 102       | 50     | 100               | 56.76             | 56.76                    | 100.00                   | 2026-27                | 55.80                 | 0.86            |
|        | Industrial Esta | 132       | 65     | 106               | 92.22             | 92.22                    | 100.00                   | 2023-24                | 91.90                 | 0.87            |
| 8      | Jahanian        | 132       | 69     | 79                | 66.36             | 66.36                    | 100.00                   | 2026-27                | 64.40                 | 0.84            |
| 9      | Jatoi           | 132       | 75     | 36                | 32.04             | 32.04                    | 100.00                   | 2017-18                | 21.30                 | 0.89            |
| 10     | Mehra Khas      | 132       | 131    | 52                | 45.28             | 46.28                    | 100.00                   | 2021-22                | 43,60                 | 0.89            |
| 11     | MianChannu      | 132       | 133    | 120               | 102.00            | 102.00                   | 100.00                   | 2023-24                | 99.40                 | 0,85            |
| 12     | Muzafar Garh    | 132       | 140    | 120               | 105.60            | 105.60                   | 100.00                   | 2022-23                | 102.90                | 0.88            |
| 13     | Pak Pattan      | 132       | 154    | 120               | 100.80            | 100.80                   | 100.00                   | 2026-27                | 100.10                | 0.84            |
| 14     | Qadirabad       | 132       | 166    | 39                | 34.71             | .34.71                   | 100.00                   | 2022-23                | 33.40                 | 0.89            |
| 15     | Qasim Pur       | 132       | 168    | 120               | 103.20            | 103.20                   | 100.00                   | 2019-20                | 100.00                | 0.86            |
| 16     | R.Y.Khan        | 132       | 171    | 120               | 103.20            | 103.20                   | 100,00                   | 2019-20                | 101.50                | 0.86            |
| 17     | Sadiqabad       | 132       | 181    | 120               | 102.00            | 102.00                   | 100.00                   | 2026-27                | 99.80                 | 0.85            |
| . 18 . | Vehari          | 132       | 219    | 92                | 77.28             | 77.28                    | 100.00                   | 2018-19                | 71.80                 | 0.84            |
| 19     | Ali Pur         | 132       | 229    | 39                | 34.32             | 34.32                    | 100.00                   | 2017-18                | 47.30                 | 0.88            |
| 20     | Chishtian.      | 66        | 253    | 15.5              | 13.95             | 13.95                    | 100.00                   | 2025-26                | 13.30                 | 0.90            |
| 21     | Lal Sohanra     | 132       | 313    | 13                | 10.92             | 10.92                    | 100.00                   | 2024-25                | 10.70                 | 0.84            |
| 22     | Ludden          | 132       | 317    | 52                | 42.64             | 42.64                    | 100.00                   | 2022-23                | 41.70                 | 0.82            |
| 23     | Uch Sharif      | 66        | 397    | 26                | 23.14             | 23.14                    | 100.00                   | 2017-18                | 21.90                 | 0.89            |
| 24     | Hasilpur        | 132       | 472    | 66                | .56.10            | 56.10                    | 100.00                   | 2024-25                | 55.40                 | 0.85            |
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# Real Constraints

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|       | 100            |              |        |                            |                           |                                  | and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec |                        | and a second second second second second second second |                 |
|-------|----------------|--------------|--------|----------------------------|---------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------|-----------------|
| S.No. | Name           | Rating<br>KV | Grid # | Total<br>Capacity<br>(MVA) | Total<br>Capacity<br>(MW) | Overloading<br>Criterion<br>(MW) | Overloading<br>Criterion<br>(%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Year of<br>Overloading | Overloading<br>Status<br>(MW)                          | Power<br>Factor |
| 25    | Jamal Din Wali | 132          | 531    | 52                         | 43.16                     | 43.16                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2021-22                | 42.90                                                  | 0.83            |
| 26    | Khan Bela      | 132          | 533    | 52                         | 46.28                     | 46.28                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2024-25                | 46.20                                                  | 0               |
| 27    | MianwaliQuresh | 132          | 534    | 52                         | 43.68                     | 43.68                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2022-23                | 41.40                                                  | 0.84            |
| 28    | Sahuka         | 132          | 537    | 66                         | 54.12                     | 54.12                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2025-26                | 52.50                                                  | 0.82            |
| 29    | Dajal          | 66           | 540    | 19.3                       | 16.98                     | 16.98                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2017-18                | 41.00                                                  | 0.88            |
| 30    | Mailsi         | 132          | 552    | 92                         | 76.36                     | 76.36                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2022-23                | 74.30                                                  | 0.83            |
| 31    | Yousaf Wala    | 220          | 584    | 52                         | 44.72                     | 44.72                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2026-27                | 44.20                                                  | 0.86            |
| 32    | Maroot         | 66           | 606    | 39.5                       | 32.39                     | 32.39                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2020-21                | 31.60                                                  | 0.82            |
| 33    | Karam Pur      | 132          | 685    | 52                         | 42.64                     | 42.64                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2025-26                | 41.90                                                  | 0.82            |
| 34    | Chishtian New  | 132          | 728    | 78                         | 65.52                     | 65.52                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2023-24                | 64.90                                                  | 0.84            |
| 35    | Makhdom Rashid | 132          | 766    | 39                         | 32.76                     | 32.76                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2017-18                | 29.90                                                  | 0.84            |
| 36    | R.Y.Khan-II    | 132          | 767    | 92                         | 82.80                     | 82.80                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2024-25                | 78.00                                                  | 0.90            |
| 37    | Khan Garh      | 132          | 769    | 26                         | 23.14                     | 23.14                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2024-25                | 22.50                                                  | 0.89            |
| 38    | Chunawala      | 132          | 773    | 0                          | 0.00                      | 0.00                             | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2017-18                | 3.60                                                   | 0.90            |
| 39    | Lar            | 132          | 780    | 52                         | 44.20                     | 44.20                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2021-22                | 41.60                                                  | 0.85            |
| 40    | Vehari         | 220          | 806    | 39                         | 32.76                     | 32.76                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2026-27                | 32.10                                                  | 0.84            |
| 41    | Nau Abad       | 220          | 815    | 26                         | 21.84                     | 21.84                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2019-20                | 21.80                                                  | 0.84            |
| 42    | Haroonabad     | 132          | 924    | 92                         | 82.80                     | 82.80                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2026-27                | 81.10                                                  | 0.90            |
| 43    | KarrorPakka    | 132          | 927    | 92                         | 76.36                     | 76.36                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2018-19                | 73.10                                                  | 0.83            |
| 44    | Dunya Pur      | 132          | 982    | 52                         | 43.68                     | 43.68                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2025-26                | 43.00                                                  | .0.84           |
| 45    | Burewala Old   | 132          | 989    | 66                         | 55.44                     | 55.44                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2017-18                | 65.70                                                  | 0.84            |
| 46    | Makhdum Pur    | 132          | 1059   | 39                         | 32.76                     | 32.76                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2026-27                | 32.30                                                  | 0. <u>34</u>    |
| 47    | Jail Roa       | 132          | 1072   | 52                         | 44.72                     | 44.72                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2025-26                | 43.40                                                  |                 |
| 48    | Sahiwal-III    | 132          | 1089   | 52                         | 44.20                     | 44.20                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2017-18                | 47.60                                                  | 0.85            |
| 49    | Man Kot        | 132          | 1115   | 26                         | 21.58                     | 21.58                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2023-24                | 20.80                                                  | 0.83            |
| 50    | Hota           | 132          | 1123   | 39                         | 31.59                     | 31.59                            | 100.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2024-25                | 31.10                                                  | 0.81            |

| Table 1-28: List of Grids with their Codes and MVA Capa | cities |
|---------------------------------------------------------|--------|

|   | Sr. | Grid |     | Grid Marrie       | Tran       | sform | er (M     | /Á) | Total | Sr.    | Grid |      |               | Trai | nsfo <b>r</b> m | ier (iV | IVA)      | Total |
|---|-----|------|-----|-------------------|------------|-------|-----------|-----|-------|--------|------|------|---------------|------|-----------------|---------|-----------|-------|
|   | No. | No.  |     | Grunalle          | <b>T</b> 1 | T2    | <b>T3</b> | T4  | (MVA) | No.    | No.  | ΝV   |               | T1   | T2              | Т3      | <b>T4</b> | (MVA) |
|   | 1   | 2    | 132 | APE               | 40         | 26    | 40        | 26  | 132   | 2      | 5    | 132  | Arifwala      | 40   | 40              | 40      | 0         | 120   |
|   | 3   | 8    | 132 | Bahawalpur        | 40         | 40    | 40        | 40  | 160   | <br>4  | 9    | 132  | Bahawal Nagar | 40   | 0               | 40      | 0         | 80    |
|   | 5   | 12   | 132 | Basti Malook      | 40         | 26    | 26        | 0   | 92 -  | <br>6  | 17   | 132  | Bonga Hayat   | 26   | 26              | 0       | 0         | 52    |
|   | 7   | 18   | 132 | Bosan Road        | 40         | 40    | 40        | 0   | 120   | 8      | 20   | 132  | Burewala      | 40   | .40             | 26      | 0         | 106   |
|   | 9   | 27   | 132 | Chichawatni       | 0          | 40    | 26        | 40  | 106   | 10     | 29   | 132  | Choubara      | 37.5 | 13              | Ó       | 0         | 50.5  |
|   | 11  | 31   | 132 | Chowk Munda       | 26         | 26    | 0         | 0   | 52    | 12     | 33   | 132  | D.G Khan      | 40   | 26              | 40      | 40        | 146   |
|   | 13  | 36   | 132 | Damar Wala        | 26         | 26    | 0         | 0   | 52    | 14     | 42   | 132  | Garah More    | 26   | 26              | 0       | 0         | 52    |
|   | 15  | 52   | 132 | Gujrat South      | 26         | 26    | 6.3       | 0   | -58.3 | 16     | . 58 | 132  | Harappa       | 40   | 26              | 0       | 0         | 66    |
|   | 17  | 65   | 132 | Industrial Estate | 26         | 40    | 40        | 0   | 106   | .18    | 69   | 132  | Jahanian      | 13   | 26              | 40      | 0         | 79    |
|   | 19  | 75   | 132 | Jatoi             | 10         | 26    | 0 -       | 0   | 36    | <br>20 | 83   | 132  | Khair Pur     | 26   | 10              | 0       | 0         | 36    |
|   | 21  | 87   | 132 | Kabirwala         | 26         | 40    | 26        | 0   | 92    | 22     | 88   | 132  | KachaKhuh     | 26   | 26              | 26      | 0         | 78    |
| 2 | 23  | 102  | 132 | Khanpur           | 26         | 40    | 40        | 0   | 106   | <br>24 | 103  | 132  | Khanewal      | 0    | 26              | 40      | 40        | 106   |
| / | 25  | 104  | 132 | Khanewal Rd       | 40         | 40    | 40        | 0   | 120   | 26     | 112  | 132. | Kot Addu      | 40   | 0               | 26      | 26        | 92    |
|   | 27  | 115  | 66  | Bakhshan Khan     | 13         | 0     | 0         | 0   | 13    | <br>28 | 122  | 132  | Liaquatpur    | 26   | 26              | 0       | 0         | 52    |
|   | 29  | 123  | 132 | Lodhran           | 40         | 40    | 40        | 0   | 120   | <br>30 | 131  | 132  | Mehra Khas    | 26   | 26              | 0       | 0         | 52    |

| Sr. | Grid |     |              | Tran      | sform      | er (M     | /A) | Total | Sr.    | Grid |       |                   | Tra | nsform | ier (N | IVA)       | Total |
|-----|------|-----|--------------|-----------|------------|-----------|-----|-------|--------|------|-------|-------------------|-----|--------|--------|------------|-------|
| No. | No.  | KV  | Grid Name    | <b>T1</b> | <b>T</b> 2 | <b>T3</b> | T4  | (MVA) | No.    | No.  | -<br> |                   | T1  | T2     | Т3     | <b>T</b> 4 | (MVA) |
| 31  | 132  | 132 | MESCO        | 40        | 40         | 40        | 0   | 120   | 32     | 133  | 132   | MianChannu        | 40  | ·40    | 40     | 0          | 120   |
| 33  | 140  | 132 | Muzafar Garh | 40        | 40         | 40        | 0   | 120   | 34     | 148  | 132   | Noor A.Wali       | 26  | 13     | 0      | 0          | 39    |
| 35  | 154  | 132 | Pak Pattan   | 40        | 40         | 40        | 0   | 120   | <br>36 | 165  | 132   | Qabula            | 26  | 26     | 40     | 0          | 92    |
| 37  | 166  | 132 | Qadirabad    | 26        | 13         | 0         | 0   | 39    | 38     | 168  | 132   | Qasim Pur         | 40  | 40     | 40     | 0          | 120   |
| 39  | 171  | 132 | R.Y.Khan     | 40        | 40         | 40        | 0   | 120   | 40     | 181  | 132   | Sadiqabad         | 40  | 40     | 40     | 0          | 120   |
| 41  | 183  | 132 | Sahiwal      | 40        | 26         | 26        | 0   | 92    | 42     | 186  | 132   | SammaSatta        | 26  | 26     | 0      | 0          | 52    |
| 43  | 196  | 132 | Noor Pur     | 26        | 26         | 0         | 0   | 52    | 44     | 216  | 132   | Taunsa            | 26  | 26     | 0      | 0          | 52    |
| 45  | 219  | 132 | Vehari       | 40        | 26         | 26        | 0   | 92    | <br>46 | 220  | 132   | Vehari Road       | 40  | 40     | 40     | 0          | 120   |
| 47  | 229  | 132 | Ali Pur      | 13        | 26         | 0         | 0   | 39    | 48     | 253  | 66    | Chishtian         | 13  | 2.5    | 0      | 0          | 15.5  |
| 49  | 261  | 132 | Daharanwala  | 26        | 26         | 0         | 0   | 52    | 50     | 274  | 132   | Fazal Pur         | 13  | 26     | 0      | 0          | 39    |
| 51  | 276  | 132 | Fort Abbas   | 26        | 26         | 0         | • 0 | 52    | 52     | 285  | 132   | Jalaipur Pir Wala | 26  | 40     | 26     | 0          | 92    |
| 53  | 293  | 66  | Jam Pur      | 26        | 0          | 0         | 0   | 26    | 54     | 297  | 132   | K.P.T             | 26  | 26     | 0      | 0          | 52    |
| 55  | 313  | 132 | Lal Sohanra  | 13        | 0          | 0         | 0   | 13    | 56     | 316  | 132   | Layyah            | 26  | 26.    | 26     | 37.5       | 11    |
| 57  | 317  | 132 | Ludden       | 26        | 26         | 0         | 0   | 52    | 58     | 327  | 66    | MecloadGunj       | 13  | 13     | 0      | 0          | 26    |
| 59  | 354  | 132 | Rajan Pur    | 26        | 26         | 0         | 0   | 52    | <br>60 | 374  | 132   | Shuja Abad        | 40  | 26     | 26     | 0          | 92    |
| 61  | 376  | 132 | Head Sidnai  | 26        | 26         | 0         | 0   | 52    | <br>62 | 397  | 66    | Uch Sharif        | 13  | 13     | 0      | 0          | 26    |

 $F = K + \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}$ 

|                  |             | EPC         | 0   |                 |            | -           |              |             |                |       |            |             |      |                                                       |           |              |                | لحذب       |                |
|------------------|-------------|-------------|-----|-----------------|------------|-------------|--------------|-------------|----------------|-------|------------|-------------|------|-------------------------------------------------------|-----------|--------------|----------------|------------|----------------|
|                  | .Sr.<br>No. | Grid<br>No. | ĸv  | Grid Name       | Tran<br>T1 | sform<br>T2 | er (M)<br>T3 | /A)<br>. T4 | Total<br>(MVA) |       | Sr.<br>No. | Grid<br>No. | κv   | Grid Name                                             | Tra<br>T1 | nsform<br>T2 | er (IV<br>T3   | IVA)<br>T4 | Total<br>(MVA) |
|                  | 95          | 728         | 132 | Chishtian New   | 26         | 26          | 26           | · 0         | 78             |       | 96         | 730         | 132  | Chowk Azam                                            | 13        | 40           | 0              | 0          | 53             |
|                  | 97          | 743         | 132 | Jampur          | 26         | 26          | 0            | 0           | 52             |       | 98         | 763         | 132  | Qasim Bagh                                            | 26        | 40           | 0              | 0          | 66             |
|                  | 99          | 766         | 132 | Makhdom Rashid  | 26         | 13          | 0            | 0           | 39             |       | 100        | 767         | 132  | R.Y.Khan-II                                           | 40        | 26           | 26             | 0          | 92             |
|                  | 101         | 769         | 132 | Khan Garh       | 13         | 13          | 0            | 0           | 26             | · · · | 102        | 773         | 132  | Chunawala                                             | 0         | 0            | 0              | 0          | 0              |
| in the sector of | 103         | 780         | 132 | Lar             | 26         | 26          | 0            | 0           | 52             |       | 104        | 806         | 220  | Vehari                                                | 13        | 26           | 0              | 0          | . 39           |
|                  | 105         | 815         | 220 | Nau Abad        | 26         | 0           | 0            | 0           | 26             |       | 106        | 852         | 66   | Head Rajkan                                           | 13        | 13           | 0              | 0          | 26             |
| 3                | 107         | 924         | 132 | Haroonabad      | 40         | 26          | 26           | 0           | 92             |       | 108        | 927         | 132  | KarrorPakka                                           | 40        | 26           | 26             | 0          | 92             |
|                  | 109         | 932         | 132 | Uch Sharif      | 13         | 13          | 26           | 0           | 52             |       | 110        | 982         | 132  | Dunya Pur                                             | 26        | 26           | 0              | 0          | 52             |
|                  | 111         | 989         | 132 | Burewala Old    | 26         | 40          | 0            | .0          | 66             |       | 112        | 1041        | 132  | MLT WAPDA Town                                        | 26        | 26           | 26             | 0          | 78             |
| J                | 113         | 1058        | 132 | Nawaz Abad      | 26         | 26          | 0            | 0           | 52             |       | 114        | 1059        | 132  | Makhdum Pur                                           | 26        | 13           | 0              | 0          | 39             |
|                  | 115         | 1068        | 132 | BahawalPurCantt | 26         | 26          | 0            | 0           | 52             |       | 116        | 1072        | 132  | Jail Roa                                              | 26        | 26           | 0              | 0          | 52             |
|                  | 117         | 1089        | 132 | Sahiwal-III     | 26         | 26          | 0            | 0           | 52             |       | 118        | 1093        | .132 | Bati Ban                                              | 26        | 0            | 0              | 0          | 25             |
| _                | 119         | 1099        | 132 | D.G Khan        | 26         | 40          | 0            | 0           | .66            |       | 120        | 1113        | 132  | Kamir                                                 | 26        | 26           | 0              | 0          | 52             |
|                  | 121         | 1115        | 132 | Man Kot         | 13         | 13          | 0            | 0           | 26             |       | 122        | 1118        | 132  | Miran Pur                                             | 26        | 26           | 0              | 0          | 52             |
|                  | 123         | 1123        | 132 | Hota            | 26         | 13          | 0            | 0           | 39             |       | 124        | 1148        | 132  | Mubarak Pur                                           | 26        | 26           | <sup>1</sup> 0 | 0          | 52             |
|                  |             |             |     |                 | -          |             |              |             |                |       |            |             |      |                                                       |           |              | e Ne           |            | 52             |
|                  |             |             | •   |                 |            |             | * ·          |             |                |       |            |             |      | n an an an Arthur an Arthur<br>An an Arthur an Arthur |           |              |                |            |                |
|                  |             |             |     |                 |            |             |              |             |                | •     |            |             |      |                                                       |           | - 14 A.      |                |            | •              |
|                  |             |             |     | 2<br>2          |            |             |              | •           |                |       | -          |             |      | 2                                                     |           |              |                |            |                |
|                  |             |             |     |                 |            |             |              | • .         |                |       | · · ·      |             |      |                                                       |           |              |                |            |                |
|                  |             |             |     |                 |            |             |              |             |                |       |            |             |      |                                                       |           |              |                |            |                |
|                  |             |             |     |                 |            |             |              |             |                |       |            |             | . •  |                                                       |           |              |                |            |                |

### $= \{i,i,j,k-1\}$

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Table 1-29: Maximum Demand (MW) of Substations (Base Forecast)

| Sr. |         | Name of Grid    |     |         |         |         |         |         | Year    |         |         |         |         |         |
|-----|---------|-----------------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| No  | Grid No | Station         |     | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 | 2026-27 | 2027-28 |
| 1   | 815     | 220 KV Nau Abad | 220 | 18.9    | 20.7    | 21.8    | 22.9    | 24      | 25.1    | 26.3    | 27.5    | 28.7    | 29.9    | 31.1    |
| 2   | 818     | 220 KV PARCO Gu | 220 | 43.3    | 43.3    | 43.3    | 43.3    | 43.3    | 43.3    | 43.3    | 43.3    | 43.3    | 43.3    | 43.3    |
| 3   | 806     | 220 KV Vehari   | 220 | 21.6    | 23.5    | 24.5    | 25.5    | 26.6    | 27.7    | 28.8    | 29.9    | 31      | 32.1    | 33.3    |
| 4   | 584     | 220 KV Y/Wala   | 220 | 33.8    | 35.2    | 36.2    | 37.2    | 38.3    | 39.4    | 40.6    | 41.8    | 43      | 44.2    | 45.5    |
| 5   | 376     | 132 KV Sidhna   | 132 | 30.6    | 32.1    | 33.4    | 34.7    | 36.1    | 37.5    | 39      | 40.5    | 42      | 43.6    | 45.1    |
| 6   | 133     | 132 KV M/Chann  | 132 | 80.2    | 85.7    | 88.3    | 90.9    | 93.6    | 96.5    | 99.4    | 102.4   | 105.4   | 108.5   | 111.6   |
| 7   | 547     | 132 KV S.S.Din  | 132 | 13.5    | 14.5    | 15.3    | 16.1    | 16.9    | 17.8    | 8.8     | 9.2     | 9.6     | 10      | 10.5    |
| 8   | 185     | 132 KV S/Satta  | 132 | 23      | 24.5    | 25.3    | 26.2    | 27      | 27.9    | 28.8    | 29.8    | 30.7    | 31.6    | 32.6    |
| · 9 | 183     | 132 KV Swl Old  | 132 | 47.5    | 52.2    | 53.7    | 55.3    | 56.9    | 58.6    | 60,3    | 62.1    | 63.9    | 65.7    | 67.5    |
| 10  | 959     | 132 KV A.Hassan | 132 | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     |
| 11  | 2       | 132 KV A.P Eaas | 132 | 47.8    | 51.7    | 54.7    | 57.6    | 60.7    | 63.8    | 50.3    | 52.8    | 55.2    | 57.7    | 60.3    |
| 12  | 891     | 132 KV Alhamd T | 132 | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     |
| 13  | 229     | 132 KV Ali Pur  | 132 | 26.1    | 30.7    | 35.1    | 39.5    | . 44    | 48.6    | 53.3    | 58.1    | 62.9    | 67.8    | 72.8    |
| 14  | 5       | 132 KV Arifwala | 132 | 80.3    | 85.2    | 87.4    | 76.4    | 78.4    | 57.9    | 59.4    | 61      | 62.7    | 64.3    | 66      |
| 15  | 9       | 132 KV B/Nagar  | 132 | 44.2    | 46.8    | 26.6    | 27.4    | 28.3    | 29.2    | 30.1    | 31.1    | 32      | 33      | 33.9    |
| 16  | 1068    | 132 KV BWP Cant | 132 | 25.6    | 26      | 26.5    | 27      | 27.5    | 28.2    | 28.8    | 29.4    | 30      | 30.7    | 31.3    |
| 17  | 626     | 132 KV Baghdad  | 132 | 34.4    | 35.4    | 36.1    | 36.9    | 37.7    | 38.6    | 39.5    | 40.4    | 41.3    | 42.3    | 43.3    |
| 18  | 8       | 132 KV Bahawal  | 132 | 68.5    | 70.5    | 72.1    | 73.7    | 75.4    | 77.3    | 79.3    | 81.3    | 83.3    | 85.3    | 87.     |
| 19  | 12      | 132 KV Basti Ma | 132 | 45.2    | 49.4    | 51.1    | 52.8    | 54.6    | 56.4    | 58.3    | 60.2    | 62.1    | 64      | 66      |
| 20  | 1093    | 132 KV Bati Ban | 132 | 6       | 6.3     | 6.5     | 6.8     | 7.1     | 7.4     | 7.7     | 7.9     | 8.2     | 8.5     | 8.8     |
| 21. | 17 :    | 132 KV Bonga Ha | 132 | 31.9    | 36.4    | 39.6    | 42.7    | 46      | 49.4    | 52.8    | 56.3    | 59.8    | 63.3    | 66.9    |
| 22  | 18      | 132 KV Bosan Ro | 132 | 89.1    | 92.8    | 96.7    | 100.7   | 104.8   | 109.3   | 113.8   | 118.4   | 123.1   | 127.9   | 132.8   |

|     | EPCO    |                 |     |               |         |         |         |         |         |         |         |         |         |         |
|-----|---------|-----------------|-----|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sr. | Grid No | Name of Grid    | 101 |               |         |         |         |         | Year    |         |         |         |         |         |
| No  |         | Station         |     | 2017-18       | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 | 2026-27 | 2027-28 |
| 23  | 20      | 132 KV Burewala | 132 | 66.5          | 71.7    | 75.4    | 69.1    | 68.1    | 71.4    | 74.8    | 78.1    | 81.6    | 85.1    | 88.6    |
| 24  | 989     | 132 KV Burewala | 132 | 65.7          | 70      | 72.5    | 75      | 59      | 61.1    | 63.2    | 65.3    | 67.4    | 69.6    | 71.8    |
| 25  | 729     | 132 KV CTM Isma | 132 | 9.5           | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     |
| 26  | 528     | 132 KV Chak 211 | 132 | 23 <i>.</i> 5 | 25.9    | 27.7    | 29.5    | 31.4    | 33.3    | 35.3    | 37.2    | 39.2    | 41.2    | 43.2    |
| 27  | 538     | 132 KV Chak No. | 132 | 26.9          | 29.4    | 30.6    | 31.8    | 33      | 34.3    | 35.6    | 37      | 38.3    | 39.6    | 41      |
| 28  | 728     | 132 KV Chishtia | 132 | 45.3          | 49.5    | 52.4    | 55.4    | 58.5    | 61.7    | 64.9    | 68.2    | 71.5    | 74.8    | - 78.2  |
| 29  | 29      | 132 KV Choubara | 132 | 6.1           | 6.5     | 7       | 7.4     | 7.8     | 8.3     | 8.8     | 9.3     | 9.7     | 10.2    | 10.7    |
| 30  | 730     | 132 KV Chowk Az | 132 | 25.1          | 26.6    | 28.1    | 29.5    | 31.1    | 20.8    | 21.8    | 22.8    | 23.8    | 24.9    | 25.9    |
| 31  | 31      | 132 KV Chowk Mu | 132 | 21.8          | 23.3    | 24      | 24.7    | 25.5    | 26.2    | 27      | 27.8    | 28.6    | 29.4    | 30.2    |
| 32  | 773     | 132 KV Chunawal | 132 | 3.6           | 3.9     | 4.2     | 4.6     | 4.9     | 5.3     | 5.6     | 6       | 6.4     | 6.7     | 7.1     |
| 33  | 775     | 132 KV Coca Col | 132 | 2.5           | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     |
| 34  | 33      | 132 KV D.G Khan | 132 | 38.7          | 40.1    | 40.7    | 41.3    | 42      | 42.8    | 41.8    | 42.6    | 43.4    | 44.1    | 44.9    |
| 35  | 1099    | 132 KV D.G Khan | 132 | 39.2          | 40.1    | 41      | 42      | 43      | 44.2    | 45.4    | 46.6    | 47.8    | 49      | 50.2    |
| 36  | 706     | 132 KV DG Cemen | 132 | 1             | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |
| 37  | 261     | 132 KV Dahran w | 132 | 19.4          | 20.4    | 21.4    | 22.4    | 23.5    | 24.6    | 25.8    | 26.9    | 28.1    | 29.3    | 30.4    |
| 38  | 36      | 132 KV DamarWa  | 132 | 20.2          | 23.9    | 27.6    | 31.4    | 35.2    | 39.2    | 43.2    | 47.2    | 51.3    | 55.5    | 59.7    |
| 39  | 982     | 132 KV Dunya Pu | 132 | 29.5          | 32      | 33.5    | 35      | · 36.5  | 38.1    | 39.7    | 41.4    | 43      | 44.7    | 46.3    |
| 40  | 541     | 132 KV Faqirwal | 132 | 11.9          | 14      | 6       | 6.8     | 7.5     | 8.3     | 9.1     | 9.9     | 10.7    | 11.5    | 12.3    |
| 41  | 642     | 132 KV Fateh Pu | 132 | 23.5          | 24.4    | 25.4    | 26.3    | 27.3    | 27.5    | 28.5    | 29.6    | 30.6    | 31.7    | 32.8    |
| 42  | 274     | 132 KV Fazal Pu | 132 | 13.6          | 14.2    | 14.5    | 14.8    | 7.5     | 7.6     | 7.8     | 8       | 8.2     | 8.4     | 8.5     |
| 43  | 530     | 132 KV Feroza   | 132 | 15.4          | 17.3    | 19.2    | 21      | 23      | 16      | 17.2    | 18.3    | 19.5    | 20.7    | 22      |
| 44  | 705     | 132 KV Fort Man | 132 | 1             | 1.1     | 1.2     | 1.2     | 1.3     | 1.3     | 1.4     | 1.4     | 1.5     | 1.6     | 1.6     |
| 45  | 276     | 132 KV Fortabba | 132 | 18.8          | 22.5    | 13.7    | 15.5    | 1.7.3   | 19.2    | 21.1    | 23.1    | 25      | 27      | 29      |

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|               |         |                         |     |         |           | ì               |                      | 1               |      |         |         |         |         |     |
|               |         |                         |     |         | $Y_{2,1}$ | t Martin Martin | $\Phi_{ij}^{(1)}(t)$ | \$ <sup>1</sup> |      |         |         |         |         |     |
|               |         |                         |     |         |           |                 |                      |                 |      |         |         |         |         |     |
|               |         |                         |     |         |           |                 |                      |                 |      |         |         |         |         |     |
|               |         |                         |     |         |           |                 |                      |                 |      |         |         |         |         |     |
|               |         |                         |     |         |           |                 |                      |                 |      |         |         |         |         |     |
|               |         |                         |     |         |           |                 |                      |                 |      |         |         |         |         |     |
|               |         |                         |     |         |           |                 |                      |                 |      |         |         |         |         |     |
|               |         |                         |     |         |           |                 |                      |                 |      |         |         |         | ·       |     |
| $-\mathbf{M}$ | EPCO    |                         |     |         |           |                 |                      |                 |      |         |         |         |         |     |
| Sr.<br>No     | Grid No | Name of Grid<br>Station | ĸv  | 2017-19 | 7019-10   | 2010.20         | 20/20.21             | 2021-22         | Year | 2022.24 | 2024.25 | 2025.26 | 1076 17 |     |
| 46            | 42      | 132 KV Garah Mo         | 132 | 28.3    | 31.1      | 33.2            | 35.4                 | 37.6            | 39.9 | 42.3    | 44.6    | 47      | 49.4    | 51. |
| 47            | 53      | 122 K) / C. Jack C      | 122 | 25.0    |           | 1 20.2          | 10.0                 |                 |      |         | 1       |         |         |     |

See G

| 40 |      | 152 Kt Guidinitio | 1.52 | 20.5 | J1.1 | 55.2 | 55.4 | 57.0  | 35.5  | 42.5  | 44.0  | 4/    | 43.4   | 51.0  |
|----|------|-------------------|------|------|------|------|------|-------|-------|-------|-------|-------|--------|-------|
| 47 | 52   | 132 KV Gujrat S   | 132  | 25.8 | 27   | 28.2 | 19.8 | 7.2   | 7.5   | 7.7   | 8     | 8.2   | 8.5    | 8.7   |
| 48 | 58   | 132 KV Harappa    | 132  | 44.2 | 47.5 | 48.4 | 49.4 | 50.3  | 51.4  | 52.5  | 53.6  | 54.7  | 55.8   | 57    |
| 49 | 924  | 132 KV Haroonab   | 132  | 38.3 | 44.9 | 42.6 | 47.8 | 53.1  | 58.6  | 64.1  | 69.7  | 75.3  | 81.1   | 86.9  |
| 50 | 472  | 132 KV Hasilpur   | 132  | 43.3 | 45.7 | 47.2 | 48.7 | 50.3  | 52    | 53.7  | 55.4  | 57.2  | 59     | 60.7  |
| 51 | 1123 | 132 KV Hota       | 132  | 25.7 | 27.8 | 28.3 | 28.8 | 29.3  | 29.9  | 30.5  | 31.1  | 31.7  | 32.3 - | 32.9  |
| 52 | 531  | 132 KV J.D.W      | 132  | 36.1 | 38.9 | 40.2 | 41.5 | 42.9  | 44.3  | 45.8  | 47.3  | 48.8  | 50.3   | 51.8  |
| 53 | 69   | 132 KV Jahanian   | 132  | 45   | 48.3 | 50.1 | 52   | 54    | 56    | 58.1  | 60.2  | 62.3  | 64.4   | 66.6  |
| 54 | 1072 | 132 KV Jail Roa   | 132  | 29.9 | 31.9 | 33.4 | 35   | 36.6  | 38.2  | 39.9  | 41.7  | 43.4  | 45.1   | 46.9  |
| 55 | 285  | 132 KV Jalal Pu   | 132  | 48.6 | 54   | 57.4 | 60.9 | 48.1  | 50.8  | 53.5  | 56.3  | 59.1  | 61.9   | 64.8  |
| 56 | 743  | 132 KV Jam Pur    | 132  | 16   | 16.8 | 17.6 | 18.5 | 15.1  | 15.8  | 16.6  | 17.3  | 18    | 18.8   | 19.5  |
| 57 | 75   | 132 KV Jatoi      | 132  | 21.3 | 44.7 | 68.4 | 92.5 | 117.1 | 142.2 | 167.8 | 193.9 | 220.5 | 247.5  | 275.1 |
| 58 | 533  | 132 KV K. Bela    | 132  | 32.9 | 36.8 | 40.6 | 44.5 | 48.5  | 39.9  | 43    | 46.2  | 49.5  | 52.8   | 56.2  |
| 59 | 83   | 132 KV K.P Sada   | 132  | 12.3 | 13.1 | 13.7 | 14.4 | 15.1  | 15.9  | 16.6  | 17.4  | 18.2  | 19     | 19.8  |
| 60 | 297  | 132 KV K.P.Tame   | 132  | 24.4 | 26.7 | 27.9 | 29.1 | 30.3  | 31.6  | 32.9  | 34.2  | 35.5  | 36.8   | 38.2  |
| 61 | 88   | 132 KV K/Khuh     | 132  | 45   | 48.2 | 49.5 | 50.9 | 52.3  | 53.7  | 55.2  | 56.8  | 58.3  | 59.8   | 61.4  |
| 62 | 87   | 132 KV K/Wala     | 132  | 44   | 47.5 | 49.3 | 43.7 | 45.2  | 46.8  | 48.5  | 50.1  | 51.7  | 53.4   | 55    |
| 63 | 102  | 132 KV KNP        | 132  | 56.1 | 62.3 | 68.2 | 74.2 | 80.4  | 48.5  | 52    | 55.6  | 59.3  | 63     | 66.8  |
| 64 | 103  | 132 KV KWL        | 132  | 71   | 76.5 | 79.6 | 58.4 | 60.7  | 63.1  | 65.5  | 68    | 70.5  | 73     | 75    |
| 65 | 104  | 132 KV KWL Road   | 132  | 80.2 | 86.1 | 86.5 | 53.5 | 55.4  | 57.3  | 59.3  | 61.3  | 63.3  | 65.4   | 67.4  |
| 66 | ·927 | 132 KV Kahror P   | 132  | 65.5 | 73.1 | 77.4 | 81.7 | 86.2  | 90.7  | 95.4  | 100   | 104.7 | 109.4  | 114.1 |
| 67 | 1113 | 132 KV Kamir      | 132  | 16.6 | 17.6 | 18.1 | 12.9 | 13.3  | 13.7  | 14.1  | 14.5  | 14.9  | 15.3   | 15.7  |
| 68 | 685  | 132 KV Karam Pu   | 132  | 27.7 | 30.9 | 32.4 | 33.9 | 35.4  | 37    | 38.6  | 40.3  | 41.9  | 43.6   | 45.2  |
|    |      |                   |      |      |      |      |      |       |       |       |       |       | 1      |       |

|        | <u>-</u> | <b>f</b> EPC | 0   |                   |      |           |        |             |       |        |      | ***** |               |     |        |        |       |       |
|--------|----------|--------------|-----|-------------------|------|-----------|--------|-------------|-------|--------|------|-------|---------------|-----|--------|--------|-------|-------|
|        | Sr.      | Grid         |     |                   | Tran | sform     | ier (M | VA)         | Total | Ŝr.    | Grid |       |               | Tra | nsforn | ner (N | /IVA) | Total |
|        | No.      | No.          |     | Giù Name          | T1   | <b>T2</b> | · T3   | <b>T4</b> . | (MVA) | No.    | No.  | KV    | Grid Name     | T1  | T2     | тз     | T4    | (MVA) |
| O      | 63       | 404          | 132 | Yazman            | 26   | 26        | 0      | 0           | 52    | 64     | 472  | 132   | Hasilpur      | 0   | 26     | 40     | 0     | 66    |
| . •    | 65       | 528          | 132 | Chak-211/WB       | 26   | 13        | 26     | 0           | 65    | 66     | 530  | 132   | Feroza        | 13  | 13     | 0      | 0     | 26    |
|        | 67       | 531          | 132 | Jamal Din Wali    | 26   | 26        | 0      | 0           | 52    | 68     | 533  | 132   | Khan Bela     | 26  | 26     | 0      | 0     | 52    |
|        | 69       | 534          | 132 | MianwaliQureshian | 26   | 26        | 0      | 0           | 52    | 70     | 535  | 132   | Sakhi Sarwar  | 10  | • 13   | 0      | 0     | 23    |
|        | 71       | 536          | 132 | Sheikh Fazil      | 26   | 26        | 13     | 0           | 65    | 72     | 537  | 132   | Sahuka        | 26  | 40     | 0      | 0     | 66    |
|        | .73      | 538          | 132 | Chak No.83/12L    | 26   | 26        | 0      | 0           | 52    | 74     | 540  | 66    | Dajal         | 13  | 6.3    | 0      | 0     | 19.3  |
|        | 75       | 541          | 132 | FaqirWali         | 26   | 26        | 0      | 0           | 52    | 76     | 542  | 66    | Karorlali San | 13  | 13     | 13     | 9.3   | 48.3  |
| ما     | 77       | 543          | 66  | Kot Sultan        | 13   | 13        | 0      | 0           | 26    | <br>78 | 544  | 132   | KotChutta     | 26  | 26     | 13     | 0     | 65    |
| _      | 79       | 545          | 66  | Minchanabad       | 9.3  | 13        | 13     | 0           | 35.3  | 80     | 546  | 132   | Noor Sar      | 26  | 26     | 0      | 0 ;   | 52    |
|        | 81       | 547          | 132 | Shah Sadarudin    | 26   | 26        | 0      | 0           | 52    | 82     | 548  | 132   | Shadan Lund   | 26  | 13     | 0      | 0     | 39    |
|        | 83       | 549          | 66  | Rang Pur          | 14   | 0         | 0      | 0           | 14    | 84     | 550  | 66    | NawanKot      | 5   | 0      | 0.:    | 0     | 5     |
|        | 85       | 551          | 132 | Sahiwal New       | 40   | 26        | 26     | 0           | 92    | 86     | 552  | 132   | Mailsi        | 26  | 40     | 26     | 0     | 92    |
| $\cap$ | 87       | 584          | 220 | Yousaf Wala       | 26   | 26        | 0      | 0           | 52    | 88     | 589  | 132   | Rojhan        | 13  | 0      | 0      | 0     | 13    |
|        | 89       | 602          | 66  | Chotti            | 12.5 | 6.3       | 0      | 0           | 18.8  | 90     | 606  | 66    | Maroot        | 13  | 12.5   | 14     | 0     | 39.5  |
|        | 91       | 626          | 132 | Baghdad           | 40   | 26        | 0      | 0           | 66    | 92     | 642  | 132   | Fateh Pur     | 26  | 13     | 0      | 0     | 39    |
|        | 93       | 685          | 132 | Karam Pur         | 26   | 26        | 0      | 0           | 52    | <br>94 | 705  | 132   | Fort Manro    | 7.5 | 0      | 0      | 0     | 7.5   |

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| <u>⇒</u> ₩. | EPCO    |                 |       |         |         |         |         |         |         |         |         |         |         |         |
|-------------|---------|-----------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sr.         | Grid No | Name of Grid    | KV    |         |         |         |         |         | Year    |         |         |         |         |         |
| NO          |         | Station         |       | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 | 2026-27 | 2027-28 |
| 69          | 769     | 132 KV Khan Gar | 132   | 14.7    | 15.7    | 16.8    | 17.9    | 19      | 20.1    | 21.3 ·  | -22.5   | 23.7    | 24.9    | 26.1    |
| 70          | 112     | 132 KV KotAdu   | 132   | 42.6    | 46.6    | 50.2    | 40.2    | 30.7    | 32.7    | 34.8    | 36.9    | 39      | 41.1    | 43.3    |
| 71          | 544     | 132 KV KotChut  | 132   | 25      | 25.9    | 26.5    | 27.1    | 27.7    | 28.4    | 29.1    | 29.8    | 30.5    | 31.2    | 31.9    |
| 72          | 313     | 132 KV Lal Soha | 132   | 7.7     | 8.3     | 8.7     | 9.1     | 9.5     | 9.9     | 10.3    | 10.7    | 11.2    | 11.6    | 12.1    |
| 73          | 780     | 132 KV Lar      | 132   | 27.1    | 31.7    | 35      | 38.3    | 41.6    | 45.1    | 48.5    | 52      | 55.6    | 59.1    | 62.7    |
| 74          | 316     | 132 KV Layyah   | 132   | 39.5    | 41.8    | 44      | 46.3    | 48.6    | 33.7    | 35.3    | 37      | 38.6    | 40.3    | 42      |
| 75          | 122     | 132 KV Liaqat P | 132   | 22.2    | 25.3    | 8.7     | 9.6     | 10.5    | 11.4    | 12.3    | 13.2    | 14.2    | 15.2    | 16.2    |
| 76          | 123     | 132 KV Lodhran  | 132   | 84.1    | 89.9    | 92.3    | 94.6    | 73.6    | 75.5    | 77.4    | 79.4    | 81.3    | 83.3    | 84      |
| 77          | 317     | 132 KV Ludden   | 132   | 28.3    | 32.3    | 34.6    | 36.9    | 39.3    | 41.7    | 44.1    | 46.6    | 49      | 51.5    | 54      |
| 78          | 534     | 132 KV M.W.Q    | 132   | 35.7    | 39.2    | 42.1    | 45.1    | 48.1    | 41.4    | 44      | 46.7    | 49.5    | 52.3    | 55.1    |
| 79          | 140     | 132 KV M/Garh   | 132   | 79.7    | 88.6    | 85.6    | 91.2    | 97      | 102.9   | 108.9   | 115     | 121.2   | 127.4   | 133.6   |
| 80          | 766     | 132 KV M/Rashee | 132   | 29.9    | 32.9    | 35      | 37.1    | 39.3    | 41.5    | 43.8    | 46.1    | 48.4    | 50.7    | 53      |
| 81          | 132     | 132 KV MESCO    | . 132 | 78.8    | : 83    | 75.6    | 78.7    | · 81.9  | 85.4    | 88.9    | 92.4    | 96      | 99.7    | 103.5   |
| 82          | 131     | 132 KV MahraKh  | 132   | 34.3    | 39.2    | 44.1    | 39.5    | 43.6    | 47.9    | 52.2    | 56.6    | 61.1    | 65.7    | 70.4    |
| 83          | 552     | 132 KV Mailsi   | 132   | 55.8    | 61.7    | 64.7    | 67.8    | 71      | 74.3    | 77.6    | 81      | 84.3    | 87.7    | 91.2    |
| 84          | 1059    | 132 KV Makhdoom | 132   | 19.9    | 21.6    | 22.9    | 24.1    | 25.4    | 26.8    | 28.1    | 29.5    | 30.9    | 32.3    | 33.7    |
| 85          | 1115    | 132 KV Man Kot  | 132   | 18.5    | 19.8    | 20.7    | 18.5    | 19.2    | 20      | 20.8    | 21.6    | 22.4    | 23.2    | 24.1    |
| 86          | 1148    | 132 KV Mubarak  | 132   | 12.7    | 13.6    | 14.1    | 14.6    | 15.1    | 15.7    | 16.3    | 16.9    | 17.5    | 18.1    | 18.7    |
| 87          | 148     | 132 KV NA Wali  | 132   | 16.4    | 18.2    | 19      | 19.8    | 20.6    | 21.5    | 22.3    | 23.2    | 24      | 24.9    | 25 100  |
| 88          | 1058    | 132 KV Nawazaba | 132   | 25.8    | 28.8    | 27.4    | 28.9    | 30.5    | 32.2    | 33.9    | 35.6    | 37.3    | 39.1    | 40.8    |
| 89          | 196     | 132 KV Noor Pur | 132   | 29.4    | 32.7    | . 34.5  | 30.2    | 31.6    | 33.2    | 34.7    | 36.2    | 37.8    | 39.4    | 41      |
| 90          | 546     | 132 KV Noor Sar | 132   | 13.4    | 14.4    | 10.2    | 10.8    | 11.3    | 11.9    | 12.5    | 13.1    | 13.7    | 14.4    | 15      |
| 91          | 934     | 132 KV PAEC S.S | 132   | 9.2     | 9.2     | 9.2     | 9.2     | 9.2     | 9.2     | 9.2     | 9.2     | 9.2     | 9.2     | 9.2     |

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|---|------|---------|-----------------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------------------|---------|
|   | Sr.  | Grid No | Name of Grid    | ĸv  |         |         |         |         |         | Year    |         |         |         |                            |         |
|   | No   |         | Station         |     | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 | 2026-27                    | 2027-28 |
|   | 92   | 724     | 132 KV PARCO R/ | 132 | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     | 2.9                        | 2.9     |
| ļ | 93   | 933     | 132 KV PMDC DGK | 132 | 1.5     | 1.5     | 1.5     | 1.5     | 1.5     | 1.5     | 1.5     | 1.5     | 1.5     | 1.5                        | 1.5     |
|   | 94   | 154     | 132 KV Pakpatta | 132 | 80.7    | 87.4    | 90.6    | 82.2    | 85.1    | 88      | 91      | 94      | 97.1    | 100.1                      | 103.2   |
|   | 95   | 165     | 132 KV Qaboola  | 132 | 43.2    | 46.9    | 48.4    | 43.3    | 44.5    | 45.8    | 47.1    | 48.4    | 49.8    | 51.1                       | 52.4    |
|   | 96   | 166     | 132 KV Qadir Ab | 132 | 21.3    | 23.8    | 26.1    | 28.5    | 30.9    | 33.4    | 35.9    | 38.4    | 41      | 43.5                       | 46.1    |
|   | 97   | 763     | 132 KV Qasim Ba | 132 | 30.2    | 30.9    | 31.6    | 32.3    | 33      | 33.8    | 34.6    | 35.5    | 36.3    | 37.2                       | 38      |
|   | 98   | 168     | 132 KV QasimPur | 132 | .83.4   | 89.2    | 93.4    | 97.5    | 101.8   | 106.4   | 111     | 115.6   | 120.3   | 125                        | 129.9   |
|   | 99   | 171     | 132 KV R.Y.K    | 132 | 91.7    | 97.8    | 101.5   | 105.1   | 108.9   | 112.9   | 117     | 121     | 125.2   | 129.3                      | 133.6   |
|   | 100  | 767     | 132 KV R.Y.K-II | 132 | 48.6    | 55.4    | 62.2    | 69      | 76      | 66.5    | 72.2    | 78.     | 83.8    | 89.7                       | 95.7    |
|   | 101  | 354     | 132 KV Rajan Pu | 132 | 32.8    | 33.7    | 34.2    | 34.7    | 35.2    | 35.8    | 36.5    | 37.1    | 37.7    | 38.4                       | 39      |
|   | 102  | 589     | 132 KV Rojhan   | 132 | 7.5     | 7.6     | 7.7     | 7.8     | 7.9     | 8.1     | 8.2     | 8.3     | 8.5     | 8.5                        | 8.7     |
|   | 103  | 181     | 132 KV S.D.K    | 132 | 86.2    | 92.5    | 74.6    | 77.9    | 81.3    | 84.9    | 88.5    | 92.2    | 96      | 99.8                       | 103.6   |
|   | 104  | 548     | 132 KV S/Lund   | 132 | 15.3    | 15.3    | 16.7    | 17.2    | 17.6    | 18.1    | 18.7    | 19.2    | 19.7    | 20.2                       | 20.8    |
|   | 105  | 1089    | 132 KV Sahiwal  | 132 | 47.6    | 49.4    | 50.4    | 51.4    | 52.6    | 53.8    | 55.1    | 56.4    | 57.7    | 59                         | 60.3    |
|   | 106  | 537     | 132 KV Sahuka   | 132 | 40.7    | 45.4    | 47.9    | 41.8    | 43.9    | 46      | 48.2    | 50.3    | 52.5    | 54.7                       | 56.9    |
|   | 107  | 535     | 132 KV Sakhi Sa | 132 | 8.9     | 9.6     | 10      | 10.4    | 1.0.8   | 11.2    | 11.7    | 12.1    | 12.5    | 13                         | 13.4    |
|   | 108  | 536     | 132 KV Sheikh f | 132 | 38.8    | 41.5    | 43.1    | 30.9    | 31.9    | 33.1    | 34.2    | 35.3    | 36.5    | 37.7                       | 38.9    |
|   | 109  | 374     | 132 KV Shujabad | 132 | 52.7    | 57.7    | 61.2    | 64.7    | 55.9    | 58.9    | 61.9    | 64.9    | 67.9    | 71                         | 74.1    |
|   | 110  | 551     | 132 KV Swl New  | 132 | 50.4    | 53.1    | 55.4    | 57.8    | 60.2    | 62.9    | 65.5    | 68.2    | 70.9    | 73.7                       | 76.5    |
|   | 111  | 216     | 132 KV Taunsa   | 132 | 28.8    | 30.6    | 31.9    | 33.2    | 34.5    | 35.9    | 37.3    | 38.7    | 40.2    | 41.7                       | 43.1    |
|   | 112  | 932     | 132 KV Uch Shar | 132 | 21.9    | 24.1    | 25.6    | 27.2    | 28.9    | 30.5    | 32.3    | 34      | 35.7    | 37.5                       | 39.2    |
|   | 113  | 219     | 132 KV Vehari   | 132 | 63.7    | 71.8    | 77.7    | 83.6    | 77.7    | 83.2    | 88.8    | 94.5    | 100.2   | 106.1                      | 112     |
|   | 114  | 220     | 132 KV Vehari R | 132 | 65.6    | 69      | 71.5    | 74.1    | 76.7    | 79.5    | 82.4    | 85.3    | 88.2    | 91.2                       | 94.2    |

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| <b>-</b> ₩ | EPCO    |                 |     |         |         |         |         |         |         |         |         |         |         |         |
|------------|---------|-----------------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sr.        |         | Name of Grid    |     |         |         |         |         |         | Year    |         |         |         |         |         |
| No         | Grid No | Station         |     | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 | 2026-27 | 2027-28 |
| 115        | 1041    | 132 KV WAPDA To | 132 | 46      | 48.8    | 21.4    | 22.1    | 22.9    | 23.8    | 24.6    | 25.5    | 26.4    | 27.3    | 28.2    |
| 116        | 404     | 132 KV Yazman   | 132 | 19.9    | 20.7    | 21.5    | 22.4    | 23.2    | 24.1    | 25.1    | 26      | 27      | 27.9    | 28.9    |
| 117        | 27      | 132 KV chichawa | 132 | 66.1    | 69.5    | 56      | 57.4    | 58.9    | 60.5    | 62.2    | 63.8    | 65.5    | 67.2    | 68.9    |
| 118        | 65      | 132 KV industri | 132 | 76.3    | 85.7    | 79.2    | 82.2    | 85.4    | 88.6    | 91.9    | 95.3    | 98.7    | 102.1   | 105.5   |
| 119        | 1118    | 132 Miran Pur   | 132 | 18.1    | 20.1    | 21.3    | 22.5    | 21.6    | 22.8    | 24      | 25.2    | 26.4    | 27.7    | 28.9    |
| 120        | 1221    | Arifwala-II     | 132 | 0       | 0       | 0       | 0       | 0       | 22.7    | 23.3    | 23.9    | 24.5    | 25.1    | 25.7    |
| 121        | 1226    | Bahawal Nagar-I | 132 | 0       | 0       | 21.8    | 22.5    | 23.3    | 24.1    | 25      | 25.8    | 26.7    | 27.5    | 28.4    |
| 122        | 1232    | Buch Villas     | 132 | 0       | Q       | 17      | 17.7    | 18.4    | 19.1    | 19.9    | 20.6    | 21.4    | 22.2    | 22.9    |
| 123        | 1216    | D.G Khan-Ill    | 132 | 0       | 0       | 0       | 0       | 0       | . 0     | 11.7    | 12.3    | 12.8    | 13.3    | 13.9    |
| 124        | 1235    | Derawar More    | 132 | 0       | 0       | 0       | 0       | 0       | 0       | 22.2    | 23.2    | 24.2    | 25.3    | 26.3    |
| 125        | 1224    | Donga Bonga     | 132 | 0       | 0       | 13.7    | 15.2    | 16.8    | 18.4    | 20      | 21.7    | 23.4    | 25.1    | 26.8    |
| 126        | 1223    | Gaggo           | 132 | 0       | 0       | 0       | 46.8    | 48.9    | 51.1    | 53.3    | 55.6    | 57.9    | 60.2    | 62.5    |
| 127        | 1227    | Kassowal        | 132 | 0       | 0       | 15.4    | 15.8    | 16.2    | 16.7    | 17.2    | 17.7    | 18.2    | 18.7    | 19.2    |
| 128        | 1234    | Khanewal-II     | 132 | 0       | 0       | 0       | 24.4    | 25.3    | 26.3    | 27.3    | 28.3    | 29.3    | 30.4    | 31.4    |
| 129        | 1228    | KhanpurBagga S  | 132 | 0       | 0       | 9.5     | 10.3    | 11.2    | 12.1    | 13      | 13.9    | 14.8    | 15.8    | 16.7    |
| 130        | 1225    | Khichi Wala     | 132 | 0       | 0       | 22.6    | 25.8    | 29.1    | 32.5    | 36      | 39.4    | 43      | 46.5    | 50.1    |
| 131        | 1229    | Khottan Wala    | 132 | 0       | 0       | 0       | 13.6    | 14.6    | 15.7    | 16.7    | 17.3    | 18.9    | 20      | 21.1    |
| 132        | 1222    | KotSamaba       | 132 | 0       | 0       | 0       | 0       | 0       | 50.1    | 54.3    | 58.5    | 62.8    | 67.1    | 71.6    |
| 133        | 1240    | Layyah-II       | 132 | 0.      | 0       | 0       | 0       | 0       | 28.9    | 30.4    | 31.9    | 33.5    | 35      | 36      |
| 134        | 1220    | Lodhran-II      | 132 | 0       | 0       | 0       | 0       | 30      | 31.2 、  | 32.3    | 33.5    | 34.6    | 35.8    | 37      |
| 135        | 1218    | Machiwal        | 132 | 0       | 0       | 0.      | 0       | . 35.1  | 36.8    | 38.6    | 40.4    | 42.2    | 44      | 45.8    |
| 136        | 1212    | Maggi More      | 132 | 0       | 0       | 0       | 6.7     | 6.9     | 7.2     | 7.5     | 7.8     | 8       | 8.3     | 8.0     |
| 137        | 1219    | Makhdoom Jahani | 132 | 0       | 0       | 0       | 0       | 24.3    | 25.7    | 27.2    | 28.6    | 30.1    | 31.6    | 33.2    |

|                   | <u>-M</u> | EPCO    | <b>10 - Kalence and So</b> ng Concession |     |         |         |         |         |         |         |         |         | damaga Titada |         |         |
|-------------------|-----------|---------|------------------------------------------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------------|---------|---------|
|                   | Śŕ.       | Grid No | Name of Grid                             | 101 |         |         |         |         |         | Year    |         |         |               |         |         |
|                   | No        |         | Station                                  |     | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26       | 2026-27 | 2027-28 |
|                   | 138       | 1239    | Muhammad Pur De                          | 132 | 0       | 0       | 0       | 0       | 11.9    | 12.3    | 12.7    | 13.2    | 13.6          | 14      | 14.5    |
| $\bigcirc$        | 139       | 1237    | NawanKot                                 | 132 | 0       | 0       | 0       | o       | 0       | 36.6    | 39.7    | 42.8    | 45.9          | 49.2    | 52.5    |
| $\mathbf{\nabla}$ | 140       | 1231    | P.G.E.H.S                                | 132 | 0       | 0       | 15.3    | 15.9    | 16.4    | . 17    | 17.7    | 18.3    | 18.9          | 19.5    | 20.2    |
|                   | 141       | 1236    | Pak Pattan-II                            | 132 | 0       | 0       | 0       | 28.8    | 30      | 31.2    | 32.5    | 33.7    | 35            | 36.3    | 37.6    |
|                   | 142       | 1238    | PirJaggi                                 | 132 | 0       | 0       | 0       | 0       | 0       | 16      | 16.9    | 17.8    | 18.7          | 19.7    | 20.6    |
|                   | 143       | 1214    | Qadirpur Rawan                           | 132 | 0       | 0       | 0       | 46.8    | 48.8    | 51      | 53.2    | 55.4    | 57.7          | 59.9    | 62.2    |
|                   | 144       | 1217    | R.Y Khan-III                             | 132 | 0       | 0       | 19.5    | 21.6    | 23.8    | 26.1    | 28.4    | 30.7    | 33.1          | 35.5    | - 38    |
|                   | 145       | 1241    | Rəhim Yar Khan                           | 132 | 0       | 0       | 1.6     | 8       | 16      | 32      | 40      | 40      | 40            | 40      | 40      |
|                   | 146       | 1215    | Sanawan                                  | 132 | 0       | 0       | 0.      | 0       | 25.6    | 27.1    | 28.6    | 30.1    | 31.6          | 33.2    | .34.7   |
|                   | 147       | 1230    | Sanjar Pur                               | 132 | 0       | 0       | 25.2    | 26.4    | 27.7    | 29      | 30.3    | 31.7    | 33.1          | 34.5    | 35.9    |
| -                 | 148       | 1213    | Shah Jamal                               | 132 | 0       | 0       | 0       | 19.1    | 20.5    | 22      | 23.4    | 24.9    | 26.4          | 28      | 29.5    |
|                   | 149       | 1233    | Suraj Miani                              | 132 | 0.00    | 0       | 21      | 22      | 23.1    | 24.2    | 25.4    | 26.5    | 27.7          | 28.9    | 30.2    |
|                   | 150       | 293     | 132 KV Jam Pur                           | 66  | 13      | 13.8    | 14.6    | 13.1    | 13.7    | 14.5    | 15.2    | 15.9    | 16.7          | 17.4    | 18.2    |
|                   | 151       | 115     | 66 KV Bakhshan                           | 66  | 3.7     | 4.4     | 5.1     | 5.7     | 6.4     | 7.2     | 7.9     | 8.6     | 9.4           | 10.2    | 11      |
|                   | 152       | 253     | 66 KV Chishtian                          | 66  | 7.8     | 8.4     | 9.1     | 9.7     | 10.4    | 11.1    | 11.8    | 12.5    | 13.3          | 14      | 14.7    |
|                   | 153       | 602     | 66 KV Chotti                             | 66  | 9.2     | 9.9     | 10.1    | 5.9     | 6       | ô.1     | 6.3     | 6.4     | 6.5           | 6.6     | 6.7     |
|                   | 154       | 540     | 66 KV Dajal                              | 66  | 6.3     | 6.5     | 6.6     | 6.7     | 6.8     | 6.9     | 7.1     | 7.2     | 7.3           | 7.5     | 7.6     |
|                   | 155       | 852     | 66 KV Head Rajk                          | 66  | 10      | 10.6    | 11.1    | 11.6    | 12.1    | 12.7    | 7.8     | 8.1     | 8.4           | 8.8     | 9.1     |
| $\sim \mathbf{O}$ | 156       | 542     | 66 KV Karor Lal                          | 66  | 19.5    | 21      | 22.3    | 23.6    | 24.9    | 15.7    | 16.6    | 17.4    | 18.4          | 19.3    | 20.2    |
|                   | 157       | 397     | 66 KV Kot Khali                          | 66  | 21.9    | 23.2    | 24.4    | 25.6    | 26.8    | 28.2    | 29.5    | 30.9    | 32.2          | 33.6    | 35      |
|                   | 158       | 543     | 66 KV KotSulta                           | 66  | 9.1     | 9.8     | 10.5    | 11.2    | 11.9    | 8.6     | 9       | 9.5     | 10            | 10.5    | 11      |
|                   | . 159     | 606     | 66 KV Maroot                             | 66  | 19.4    | 24.1    | 27.9    | 31.6    | 35.4    | 39.2    | 43.1    | 47      | 51            | 55      | 59      |
|                   | 160       | 327     | 66 KV Mclod Gun                          | 66  | 16.6    | 17.3    | 17.8    | 18.3    | 18.8    | 19.4    | 20      | 20.6    | 21.2          | 21.8    | 22.4    |

| <b>-</b> ₩ | EPCO    |                 |      |         | 1       | and the second second second second second second second second second second second second second second secon |         |         |         |         | -       |         | Seconada |         |
|------------|---------|-----------------|------|---------|---------|-----------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|----------|---------|
| Sr.        | Grid No | Name of Grid    |      |         |         |                                                                                                                 |         |         | Year    |         |         |         |          |         |
| No -       | Griu NO | Station         | , NV | 2017-18 | 2018-19 | 2019-20                                                                                                         | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 | 2026-27  | 2027-28 |
| 161        | 545     | 66 KV Minchinab | 66   | 17.4    | 18.4    | 19.2                                                                                                            | 20      | 20.8    | 21.7    | 22.7    | 23.6    | 24.5    | 25.4     | 26.4    |
| 162        | 550     | 66 KV NawanKot  | 66   | 1.2     | 1.4     | 1.6                                                                                                             | 1.7     | 1.9     | 2.1     | 2.3     | 2.4     | 2,6     | 2.8      | 3       |
| 163        | 549     | 66 KV Rang Pur  | 66   | 6.5     | 7.3     | 7.7                                                                                                             | 8.1     | 8.6     | 9.1     | 9.5     | 10      | 10.5    | 11       | 11.5    |
|            |         | TOTAL DISCO:    |      | 4323.9  | 4691.9  | 4951.9                                                                                                          | 5218.5  | 5494.8  | 5792.3  | 6085.7  | 6373.9  | 6665.7  | 6961.6   | 7259.1  |

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|          |     |       |         |                      |     |         |         | · · · · · · |         |         |         |         |         |         |         |         |
|----------|-----|-------|---------|----------------------|-----|---------|---------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|
|          | Sr  | Group | Grid No | Name of Grid Station | кv  |         |         |             |         |         | Year    |         |         |         |         |         |
|          | No. | No    |         |                      |     | 2017-18 | 2018-19 | 2019-20     | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 | 2026-27 | 2027-28 |
|          | 1   | · 2   | 2       | 132 KV A.P Eaas      | 132 | 35.3    | 38.6    | 40.8        | 43.1    | 45.4    | 47.8    | 50.3    | 52.8    | 55.2    | 57.7    | 60.3    |
|          | 2   | 2     | 1358    | Derawar More         | 132 | 12.4    | 13.2    | 13.8        | 14.5    | 15.2    | 16      | 16.8    | 17.5    | 18.3    | 19.1    | 19.9    |
|          | 3   | 5     | 5       | 132 KV Arifwala      | 132 | 49.1    | 52.1    | 53.4        | 54.8    | 56.3    | 57.9    | 59.4    | 61      | 62.7    | 64.3    | 66      |
|          | 4   | 5     | 1333    | Arifwala-II          | 132 | 19.3    | 20.5    | 21          | 21.6    | 22.1    | 22.7    | 23.3    | 23.9    | 24.5    | 25.1    | 25.7    |
|          | 5   | 5     | 1340    | Gaggo                | 132 | 7       | 7.4     | 7.6         | 7.8     | 8       | 8.3     | 8.5     | 8.7     | 8.9     | 9.1     | 9.4     |
|          | 6   | 5     | 1361    | Pak Pattan-II        | 132 | 5       | 5.2     | 5.3         | 5.5     | 5.6     | 5.8     | 6       | 6.2     | 6.3     | 6.5     | 6.7     |
|          | 7   | 5     | 1221    | Arifwala-II          | 132 | 0       | 0       | 0           | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
|          | 8   | 8     | 8       | 132 KV Bahawal       | 132 | 68.5    | 70.5    | 72.1        | 73.7    | 75.4    | 77.3    | 79.3    | 81.3    | 83.3    | 85.3    | 87.4    |
| •        | 9   | 9     | 9       | 132 KV B/Nagar       | 132 | 24.4    | 25.8    | 26.6        | 27.4    | 28.3    | 29.2    | 30.1    | 31.1    | 32      | 33      | 33.9    |
|          | 10  | 9     | 1346    | Bahawal Nagar-I      | 132 | 19.7    | 21      | 21.8        | 22.5    | 23.3    | 24.1    | 25      | 25.8    | 25.7    | 27.5    | 28.4    |
| <b>^</b> | 11  | 9     | 1226    | Bahawal Nagar-I      | 132 | 0       | Ũ       | 0           | · 0 ·   | • • 0   | 0       | 0       | 0       | 0       | 0       | υ       |
|          | 12  | 12    | 12      | 132 KV Basti Ma      | 132 | 45.2    | 49.4    | 51.1        | 52.8    | 54.6    | 56.4    | 58.3    | 60.2    | 62.1    | 64      | 66      |
|          | 13  | 17    | 17      | 132 KV Bonga Ha      | 132 | 31.9    | 36.4    | 39.6        | 42.7    | 46      | 49.4    | 52.8    | 56.3    | 59.8    | 63.3    | 56.9    |
| مىلىر    | 14  | 18    | 18      | 132 KV Bosan Ro      | 132 | 89.1    | 92.8    | 96.7        | 100.7   | 104.8   | 109.3   | 113.8   | 118.4   | 123.1   | 127.9   | 132.8   |
|          | 15  | 20    | 20      | 132 KV Burewala      | 132 | 54.8    | 58.8    | 61.8        | 64.9    | 68.1    | 71.4    | 74.8    | 78.1    | 81.6    | 85.1    | 88.6    |
|          | 16  | 20    | 1338    | Gaggo                | 132 | 8.3     | 9.1     | 9.6         | 10.1    | 10.6    | 11.1    | 11.6    | 12.2    | 12.7    | 1.3.2   | 13.8    |
|          | 17  | 20    | 1326    | Machiwal             | 132 | 3.5     | 3.8     | 4           | 4.2     | 4.5     | 4.7     | 4.9     | 5.2     | 5.4     | 5.7     | 5.9     |
|          | 18  | 27    | 27      | 132 KV chichawa      | 132 | 51.8    | 54.6    | 56          | 57.4    | 58.9    | 60.5    | 62.2    | 63.8    | 65.5    | 57.2    | 68.9    |

MEPCO Table 1-30: Family of Grids (Existing, Proposed & Transit Grid)

| -MF  | PCO   |         |                      |     |         |         |         |         |         |         |                |         |         |         |         |
|------|-------|---------|----------------------|-----|---------|---------|---------|---------|---------|---------|----------------|---------|---------|---------|---------|
| Sr   | Group | Grid No | Name of Grid Station | YOU |         |         |         |         |         | Year    |                |         |         |         |         |
| No.  | No    | Sitt NO |                      |     | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24        | 2024-25 | 2025-26 | 2026-27 | 2027-28 |
| 19   | 27    | 1347    | Kassowal             | 132 | 14.2    | 15      | 15.4    | 15.8    | 16.2    | 16.7    | 17.2           | 17.7    | 18.2    | 18.7    | 19.2    |
| 20   | 27    | 1227    | Kassowal             | 132 | 0       | 0       | 0       | 0       | 0       | 0       | 0              | 0       | 0       | 0       | 0       |
| 21   | 29    | 29      | 132 KV Choubara      | 132 | 6.1     | 6.5     | 7       | 7.4     | 7.8     | 8.3     | 8.8            | 9.3     | 9.7     | 10.2    | 10.7    |
| 22 - | 31    | 31      | 132 KV Chowk Mu      | 132 | 21.8    | 23.3    | 24      | 24.7    | 25.5    | 26.2    | 27             | 27.8    | 28.6    | 29.4    | 30.2    |
| 23   | 33    | 33      | 132 KV D.G Khan      | 132 | 37.2    | 38.4    | 39      | 39.6    | 40.3    | 41.1    | 41.8           | 42.6    | 43.4    | 44.1    | 44.9    |
| 24   | 33    | 1322    | D.G Khan-III         | 132 | 1.6     | 1.6     | 1.6     | 1.7     | 1.7     | 1.7     | 1.8            | 1.8     | 1.8     | 1.9     | 1.9     |
| 25   | 36    | 36      | 132 KV DamarWa       | 132 | 20.2    | 23.9    | 27.6    | 31.4    | 35.2    | 39.2    | 43.2           | 47.2    | 51.3    | 55.5    | 59.7    |
| 26   | 42    | 42      | 132 KV Garah Mo      | 132 | 28.3    | 31.1    | 33.2    | 35.4    | 37.6    | 39.9    | .42.3          | 44.6    | 47      | 49.4    | 51.8    |
| 27   | 52    | 1320    | Sanawan              | 132 | 11.1    | 11.6    | 12.2    | 12.8    | 13.4    | 14      | 14.7           | 15.3    | 16      | 16.7    | 17.4    |
| 28   | 52    | 1315    | Shah Jamal           | 132 | 8.4     | 8.8     | 9.2     | 9.6     | 10      | 10.5    | 10.9           | 11.4    | 11.9    | 12.4    | 12.9    |
| 29   | .52   | 52      | 132 KV Gujrat S      | 132 | 6.3     | 6.6     | 6.8     | 7       | 7.2     | 7.5     | 7.7            | 8       | 8.2     | 8.5     | 8.7     |
| 30   | 58    | 58      | 132 KV Harappa       | 132 | 44.2    | 47.5    | 48.4    | 49.4    | 50.3    | 51.4    | 52.5           | 53.6    | 54.7    | 55.8    | 57      |
| 31   | 65    | 65      | 132 KV industri      | 132 | 68.2    | 76.2    | 79.2    | 82.2    | 85.4    | 88.6    | 91.9           | 95.3    | 98.7    | 102.1   | 105.5   |
| 32   | 65    | 1356    | Suraj Miani          | 132 | 8.1     | 9.5     | 9.8     | 10.1    | 10.5    | 10.9    | 11.2           | 11.6    | 12      | 12.4    | 12.7    |
| 33   | 65    | 1233    | Suraj Mianî          | 132 | .0      | 0       | 0       | 0       | 0       | 0       | <sup>°</sup> O | 0       | 0       | 0       | 0       |
| 34   | 69    | 69      | 132 KV Jahanian      | 132 | 45      | 48.3    | 50.1    | 52      | 54      | 56      | 58.1           | 60.2    | 62.3    | 64.4    | 66.     |
| 35   | 75    | 75      | 132 KV Jatoi         | 132 | 21.3    | 44.7    | 68.4    | 92.5    | 117.1   | 142.2   | 167.8          | 193.9   | 220.5   | 247.5   | 275.1   |
| . 36 | 83    | 83      | 132 KV K.P Sada      | 132 | 12.3    | 13.1    | 13.7    | 14.4    | 15.1    | 15.9    | 16.6           | 17.4    | 18.2    | . 19    | 19.8    |
| 37   | 87    | 87      | 132 KV K/Wala        | 132 | 37.7    | 40.8    | 42.2    | 43.7    | 45.2    | 46.8    | 48.5           | 50.1    | 51.7    | 53.4    | 55.     |

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|                    | -ivi L    | PCO         | 10000   |                      |     |         | -       | e el élé discourse : |         |         |                 |         |         |         | 223 <del></del> |         |
|--------------------|-----------|-------------|---------|----------------------|-----|---------|---------|----------------------|---------|---------|-----------------|---------|---------|---------|-----------------|---------|
|                    | Sr<br>No. | Group<br>No | Grid No | Name of Grid Station | ĸv  | 2017-18 | 2018-19 | 2019-20              | 2020-21 | 2071-22 | Year<br>2022-23 | 2023-24 | 2024-25 | 2025-26 | 2026-27         | 2027-28 |
| $\hat{\mathbf{O}}$ | 38        | 87          | 1317    | Qadirpur Rawan       | 132 | 6.3     | 6.7     | 7.1                  | 7.4     | 7.7     | 8.1             | 8.5     | 8.9     | 9.3     | 9.7             | 10      |
|                    | 39        | 88          | 88      | 132 KV K/Khuh        | 132 | 45      | 48.2    | 49.5                 | 50.9    | 52.3    | 53.7            | 55.2    | 56.8    | 58.3    | 59.8            | 61.4    |
|                    | 40        | 102         | 102     | 132 KV KNP           | 132 | 32      | 35.2    | 38.4                 | 41.7    | 45      | 48.5            | 52      | 55.6    | 59.3    | 63              | 66.8    |
| - 21<br>22         | 41        | 102         | 1336    | KotSamaba            | 132 | 14.3    | 16.1    | 17.9                 | 19.7    | 21.5    | 23.5            | 25.4    | 27.4    | 29.4    | 31.5            | 33.6    |
|                    | 42        | 102         | 1364    | NawanKot             | 132 | 9.8     | 10.9    | 11.8                 | 12.8    | 13.8    | 14.9            | 15.9    | 17      | 18.1    | 19.2            | 20.4    |
|                    | 43        | 102         | 1222    | KotSamaba            | 132 | 0       | 0       | 0                    | 0       | 0       | 0               | 0       | 0       | 0       | 0               | 0       |
|                    | 44        | 103         | 103     | 132 KV KWL           | 132 | 50.2    | 53.9    | 56.1                 | 58.4    | 60.7    | 63.1            | 65.5    | 68      | 70.5    | 73              | 75.5    |
|                    | 45        | 103         | 1357    | Khanewal-II          | 132 | 20.9    | 22.6    | 23.5                 | 24.4    | 25.3    | 26.3            | 27.3    | 28.3    | 29.3    | 30.4            | 31.4    |
|                    | 46        | 103         | 1234    | Khanewal-II          | 132 | 0       | Ó       | 0                    | . 0     | 0       | 0               | 0       | 0       | 0       | 0               | 0       |
|                    | 47        | 104         | 104     | 132 KV KWL Road      | 132 | 46.5    | 49.9    | 51.7                 | 53.5    | 55.4    | 57.3            | 59.3    | 61.3    | 63.3    | 65.4            | 67.4    |
|                    | 48        | 104         | 1319    | Qadirpur Rawan       | 132 | 30.9    | 33.3    | 34.8                 | 36.3    | 37.9    | 39.6            | 41.2    | 42.9    | 44.6    | 46.4            | 48.1    |
| •                  | 49        | 104         | 1352    | P.G.E.H.S            | 132 | 2.7     | ·· 3    | 3                    | 3.1     | 3.2     | 3.2             | 3.3     | 3.4     | 3.5     | 3.5             | 3.6     |
|                    | 50        | 104         | 1214    | Qadirpur Rawan       | 132 | 0       | 0       | 0                    | C       | 0       | 0               | 0       | 0       | 0       | 0               | 0       |
|                    | 51        | 112         | 112     | 132 KV KotAdu        | 132 | 23      | 25.1    | 26.9                 | 28.8    | 30.7    | 32.7            | 34.8    | 36.9    | 39      | 41.1            | 433     |
| $\sim$             | 52        | 112         | 1349    | Khottan Wala         | 132 | 10.7    | 11.7    | 12.6                 | 13.6    | 14.6    | 15.7            | 16.7    | 17.8    | 18.9    | 20              | 21.1    |
| U                  | 53        | 112         | 1321    | Sanawan              | 132 | 8.9     | 9.9     | 10.7                 | 11.4    | 12.2    | 13.1            | 13.9    | 14.8    | 15.6    | 16.5            | 17.4    |
|                    | 54        | 112         | 1229    | Khottan Wala         | 132 | 0       | 0       | 0                    | Ċ.      | 0       | 0               | 0       | 0       | 0       | . 0             | 0       |
|                    | 55        | 112         | 1215    | Sanawan              | 132 | .0.     | C .     | 0.                   | 0       | 0       | 0               | υ       | 0       | 0       | 0               | 0       |
|                    | 56        | 115         | 115     | 66 KV Bakhshan       | 66  | 3.7     | 4.4     | 5.1                  | 5.7     | 6.4     | 7.2             | 7.9     | 8.6     | 9.4     | 10.2            | 11      |

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| <ul> <li>a) a</li> </ul> |      |

| <b>-</b> ₩E | PCO   |         |                      |      | w tir to some of |         |         |         | at a la calculation de la calculation de la calculation de la calculation de la calculation de la calculation d |         |         |         |         |         |         |
|-------------|-------|---------|----------------------|------|------------------|---------|---------|---------|-----------------------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|
| Sr          | Group | CridNo  | Name of Grid Station | WAT. |                  |         |         |         |                                                                                                                 | Year    |         |         |         |         |         |
| No.         | No    | Grið No | Name of Grid Station | Ň    | 2017+18          | 2018-19 | 2019-20 | 2020-21 | 2021-22                                                                                                         | 2022-23 | 2023-24 | 2024-25 | 2025-26 | 2026-27 | 2027-28 |
| 57          | 122   | 1324    | R.Y Khan-III         | 132  | 15.3             | 17.4    | 19.5    | 21.6    | 23.8                                                                                                            | 26.1    | 28.4    | 30.7    | 33.1    | 35.5    | 38      |
| 58          | 122   | 122     | 132 KV Liaqat P      | 132  | 7                | 7.9     | 8.7     | 9.6     | 10.5                                                                                                            | 11.4    | 12.3    | 13.2    | 14.2    | 15.2    | 16.2    |
| 59          | 122   | 1217    | R.Y Khan-Ill         | 132  | 0                | 0       | 0       | 0       | 0                                                                                                               | 0       | 0       | 0       | 0 ·     | 0       | 0       |
| 60          | 123   | 123     | 132 KV Lodhran       | 132  | 63.8             | 68.5    | 70.1    | 71.8    | 73.6                                                                                                            | 75.5    | 77.4    | 79.4    | 81.3    | 83.3    | 84      |
| 61          | 123   | 1332    | Lodhran-11           | 132  | 20.3             | 21.5    | 22.1    | 22.8    | 23.4                                                                                                            | 24.2    | 24.9    | 25.6    | 26.4    | 27.2    | 27.9    |
| 62          | 123   | 1220    | Lodhran-II           | 132  | 0                | 0       | 0       | 0       | 0                                                                                                               | 0       | 0       | Ö       | 0       | 0       | 0       |
| 63          | 131   | 131     | 132 KV MahraKh       | 132  | 27.5             | 31.5    | 35.5    | 39.5    | 43.6                                                                                                            | 47.9    | 52.2    | 56.6    | 61.1    | 65.7    | 70.4    |
| 64          | 131   | 1316    | Shah Jamal           | 132  | 6.7              | 7.7     | 8.6     | 9.5     | 10.5                                                                                                            | 11.5    | 12.5    | 13.5    | 14.6    | 15.6    | 16.7    |
| 65          | 131   | 1213    | Shah Jamal           | 132  | 0                | 0       | 0       | 0       | 0                                                                                                               | 0       | 0       | 0       | 0       | Ö       | 0       |
| 66          | 132   | 132     | 132 KV MESCO         | 132  | 69               | 72.5    | 75.6    | 78.7    | 81.9                                                                                                            | 85.4    | 88.9    | 92.4    | 96      | 99.7    | 103.5   |
| 67          | 132   | 1355    | Suraj Miani          | 132  | 9.8              | 10.5    | 11.2    | 11.9    | 12.6                                                                                                            | 13.4    | 14.1    | 14.9    | 15.7    | 16.6    | 17.4    |
| 68          | 133   | 133     | 132 KV M/Chann       | 132  | 80.2             | 85.7    | 88.3    | 90.9    | 93.6                                                                                                            | 96.5    | 99.4    | 102.4   | 105.4   | 108.5   | 111.6   |
| 69          | 140   | 140     | 132 KV M/Garh        | 132  | 72.4             | 80      | 85.6    | 91.2    | 97                                                                                                              | 102.9   | 108.9   | 115     | 121.2   | 127.4   | 133.6   |
| 70          | 140   | 1348    | KhanpurBagga S       | 132  | 7.3              | 8.6     | 9.5     | 10.3    | 11.2                                                                                                            | 12.1    | 13      | 13.9    | 14.8    | 15.8    | 16.7    |
| 71          | 140   | 1228    | KhanpurBagga S       | 132  | 0                | 0       | 0       | 0       | 0                                                                                                               | 0       | 0       | 0       | 0       | 0       | 0       |
| 72          | 148   | 148     | 132 KV NA Wali       | 132  | 16.4             | 18.2    | 19      | 19.8    | 20.6                                                                                                            | 21.5    | 22.3    | 23.2    | 24      | 24.9    | 25.8    |
| 73          | 154   | 154     | 132 KV Pakpatta      | 132  | 70.9             | 76.9    | 79.5    | 82.2    | 85.1                                                                                                            | 88      | 91      | 94      | 97.1    | 100.1   | 103.2   |
| 74          | . 154 | 1360    | Pak Pattan-II        | 132  | 9.9              | 10.6    | 11      | 11.5    | 12                                                                                                              | 12.5    | . 13    | 13.5    | 14.1    | 14.6    | 15.1    |
| 75          | 165   | 165     | 132 KV Qaboola       | 132  | 37.6             | 40.9    | 42.1    | 43.3    | 44.5                                                                                                            | 45.8    | 47.1    | 48.4    | 49.8    | 51.1    | 52.4    |

| -MI       | EPCO        |         |                                                                                                                                                     |     |         |         |         |         | 1       |                 |         |         | - Charles Marca ( Dela ca | anica descen |         |
|-----------|-------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|---------|---------|---------|---------|-----------------|---------|---------|---------------------------|--------------|---------|
| Sr<br>No. | Group<br>No | Grid No | Name of Grid Station                                                                                                                                | ĸv  | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | Year<br>2022-23 | 2023-24 | 2024-25 | 2025-26                   | 2026-27      | 2027-28 |
| 76        | 165         | 1341    | Gaggo                                                                                                                                               | 132 | 5.5     | 6       | 6.3     | 6.5     | 6.8     | 7.1             | 7.3     | 7.6     | 7.9                       | 8.2          | 8.5     |
| 77        | 165         | 1223    | Gaggo                                                                                                                                               | 132 | 0       | 0       | 0       | 0       | 0       | 0               | · 0     | 0       | 0                         | 0            | 0       |
| 78        | 166         | 166     | 132 KV Qadir Ab                                                                                                                                     | 132 | 21.3    | 23.8    | 26.1    | 28.5    | 30.9    | 33.4            | 35.9    | 38.4    | 41                        | 43.5         | 46.1    |
| 79        | 168         | 168     | 132 KV QasimPur                                                                                                                                     | 132 | 83.4    | 89.2    | 93.4    | 97.5    | 101.8   | 106.4           | 111     | 115.6   | 120.3                     | 125          | 129.9   |
| 80        | 171         | 171     | 132 KV R.Y.K                                                                                                                                        | 132 | 91.7    | 97.8    | 101.5   | 105.1   | 108.9   | 112.9           | 117     | 121     | 125.2                     | 129.3        | 133.6   |
| 81        | 181         | 181     | 132 KV S.D.K                                                                                                                                        | 132 | 66.3    | 71.4    | 74.6    | 77.9    | 81.3    | 84.9            | 88.5    | 92.2    | 96                        | 99.8         | 103.6   |
| 82        | 181         | 1350    | Sanjar Pur                                                                                                                                          | 132 | 19.9    | 21.1    | 22.1    | 23.1    | 24.1    | 25.2            | 26.3    | 27.5    | 28.6                      | 29.8         | 31      |
| 83        | 183         | 183     | 132 KV Swl Old                                                                                                                                      | 132 | 47.5    | 52.2    | 53.7    | 55.3    | 56.9    | 58.6            | 60.3    | 62.1    | 63.9                      | 65.7         | 67.5    |
| 84        | 186         | 186     | 132 KV S/Satta                                                                                                                                      | 132 | 23      | 24.5    | 25.3    | 26.2    | 27      | 27.9            | 28.8    | 29.8    | 30.7                      | 31.6         | 32.6    |
| 85        | 196         | 196     | 132 KV Noor Pur                                                                                                                                     | 132 | 24.5    | 27.3    | 28.7    | 30.2    | 31.6    | 33.2            | 34.7    | 36.2    | 37.8                      | 39.4         | 41      |
| 86        | 196         | 1362    | Pak Pattan-II                                                                                                                                       | 132 | 4.9     | 5.4     | 5.7     | 6       | 6.3     | 6.7             | 7       | 7.3     | 7.5                       | 8            | 8.3     |
| 87        | 216         | 216     | 132 KV Taunsa                                                                                                                                       | 132 | 28.8    | 30.6    | 31.9    | 33.2    | 34.5    | 35.9            | 37.3    | 38.7    | 40.2                      | 41.7         | 43.1    |
| 88        | 219         | 219     | 132 KV Vehari                                                                                                                                       | 132 | 55.1    | 62.1    | 67.2    | 72.4    | 77.7    | 83.2            | 88.8    | 94.5    | 100.2                     | 106.1        | 112     |
| 89        | 219         | 1327    | Machiwal                                                                                                                                            | 132 | 8.6     | 9.8     | 10.5    | 11.2    | 11.9    | 12.7            | 13.5    | 14.3    | 15                        | 15.8         | 16.6    |
| 90        | 219         | 1218    | Machiwal                                                                                                                                            | 132 | 0       | 0       | 0       | 0       | 0       | 0               | 0       | 0       | 0                         |              | 0       |
| 91        | 220         | 220     | 132 KV Vehari R                                                                                                                                     | 132 | 65.6    | 69      | 71.5    | 74.1    | 76.7    | 79.5            | 82.4    | 85.3    | 88.2                      | 91.2         | 94.2    |
| 92        | 229         | 229     | 132 KV Ali Pur                                                                                                                                      | 132 | 26.1    | 30.7    | 35.1    | 39.5    | 44      | 48.6            | 53.3    | 58.1    | 62.9                      | 67.8         | 72.8    |
| 93        | 253         | 253     | 66 KV Chishtian                                                                                                                                     | 66  | 7.8     | 8.4     | 9.1     | 9.7     | 10.4    | 11.1            | 11.8    | 12.5    | 13.3                      | 14           | 14.7    |
| 94        | 261         | 261.    | 132 KV Dahran w                                                                                                                                     | 132 | 19.4    | 20.4    | 21.4    | 22.4    | 23.5    | 24.6            | 25.8    | 26.9    | 28.1                      | 29.3         | 30.4    |
|           |             |         | n de la<br>Line de la constante<br>Line de la constante de la constante de la constante de la constante de la constante de la constante de la const |     |         |         |         |         |         |                 |         |         |                           |              | 65      |

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| Sr.<br>No.         Group<br>No.         Grid No         Name of Grid Station         KV         Image: Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrast of Contrect of Contrect of Contrast of Contrect of Contrast of Contrect | <b>277 2027-28</b><br>8.9 |
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| No.         No.         No.         2017-18         2018-19         2019-20         2020-21         2021-22         2022-23         2023-24         2024-25         2025-26         202           95         274         1370         Muhammad Pur De         132         6.9         7.2         7.3         7.5         7.7         7.9         8.1         8.3         8.5         8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>27 2027-28</b><br>8.9  |
| 95 274 1370 Muhammad Pur De 132 6.9 7.2 7.3 7.5 7.7 7.9 8.1 8.3 8.5 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.9                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | . 0.3                     |
| 96 274 274 132 KV Fazal Pu 132 6.7 7 7.2 7.3 7.5 7.6 7.8 8 8.2 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0 5 23                    |
| 97 274 1239 Muhammad Pur De 132 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.3                       |
| 98 276 276 132 KV Fortabba 132 10.1 11.9 13.7 15.5 17.3 19.2 21.1 23.1 25 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |
| 99         276         1345         Khichi Wala         132         8.7         10.6         12.4         14.2         15.1         18         19.9         21.8         23.8         21.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 29                        |
| 100         276         1225         Khichi Wala         132         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 27.8                      |
| 101 285 285 132 KV Jalal Pu 132 36.4 40.3 42.9 45.4 48.1 50.8 53.5 56.3 50.1 50.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                           |
| 102         285         1330         Makhdoom Jahani         132         7.3         8.2         8.7         9.2         9.7         10.3         10.9         11.4         13         13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 64.8                      |
| 103         285         1331         Lodhran-II         132         4.9         5.5         5.8         6.2         6.6         7         7.4         7.8         9.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 13.1                      |
| 104 285 1219 Makhdoom Jahani 132 0 0 0 0 0 0 0 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 9.1                       |
| 105 293 293 132 KV Jam Pur 66 11.1 11.8 12.4 13.1 13.7 14.5 25.7 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0                         |
| 106 293 1314 Maggi More 132 1.9 2 2.7 2.2 2.7 14.5 15.2 15.9 16.7 17.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 18.2                      |
| 107 293 1212 Maggi More 132 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.4                       |
| 108 297 297 132 KV KP. Tame 132 244 257 254                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0                         |
| 100         237         237         132         24.4         26.7         27.9         29.1         30.3         31.6         32.9         34.2         35.5         36.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 38.2                      |
| 109         313         315         152 KV kil solita         132         7.7         8.3         8.7         9.1         9.5         9.9         10.3         10.7         11.2         11.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 12.1                      |
| 110 316 316 132 KV Layyah 132 26.4 27.8 29.3 30.7 32.2 33.7 35.3 37 38.6 40.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 42                        |
| 111 316 1372 Layyah-II 132 13.2 14 14.8 15.6 16.4 17.3 18.2 19.1 20 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |
| 112 317 317 132 KV Ludden 132 28.3 32.3 34.6 36.9 39.3 41.7 44.1 46.6 49 51.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 54                        |
| 113         327         327         66 KV Mclod Gun         66         16.6         17.3         17.8         18.3         18.8         19.4         20         20.6         21.2         21.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |

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- 建筑复数分

| Sr.<br>No | Group<br>No | Grid No | Name of Grid Station | ĸv                                     | 2017-18 | 2018-19                                | 2019-20                                | 2020-21 | -2021-22       | Year<br>2022-23 | 2023-24 | 2024-25                               | 2025-26 | 2026-27 | 2027 |
|-----------|-------------|---------|----------------------|----------------------------------------|---------|----------------------------------------|----------------------------------------|---------|----------------|-----------------|---------|---------------------------------------|---------|---------|------|
| 114       | 354         | 354     | 132 KV Rajan Pu      | 132                                    | 32.8    | 33.7                                   | - 34.2                                 | 34.7    | 35.2           | 35.8            | 36.5    | 37.1                                  | 37.7    | 38.4    | 39   |
| 115       | 374         | 374     | 132 KV Shujabad      | 132                                    | 43.5    | 47.6                                   | 50.4                                   | 53.1    | 55.9           | 58.9            | 61.9    | 64.9                                  | 67.9    | 71.     | 74.  |
| 116       | 374         | 1328    | Makhdoom Jahani      | 132                                    | 9.2     | 10.1                                   | 10.8                                   | 11.6    | 12.3           | 13.1            | 13.9    | 14.8                                  | 15.6    | 16.4    | 17.  |
| 117       | 376         | 376     | 132 KV Sìdhna        | 132                                    | 30.6    | 32.1                                   | 33.4                                   | 34.7    | 36.1           | 37.6            | 39      | 40.5                                  | 42      | 43.6    | 45.  |
| 118       | 397         | 397     | 66 KV Kot Khali      | 66                                     | 21.9    | 23.2                                   | 24.4                                   | 25.6    | 26.8           | 28.2            | 29.5    | 30.9                                  | 32.2    | 33.6    | - 35 |
| 119       | 404         | 404     | 132 KV Yazman        | 132                                    | 19.9    | 20.7                                   | 21.5                                   | 22.4    | 23.2           | 24.1            | 25.1    | 26                                    | 27      | 27.9    | 23.  |
| 120       | 472         | 472     | 132 KV Hasilpur      | 132                                    | 43.3    | 45.7                                   | 47.2                                   | 48.7    | 50.3           | 52              | . 53.7  | 55.4                                  | 57.2    | 59      | 60.  |
| 121       | 528         | 528     | 132 KV Chak 211      | 132                                    | 23.5    | 25.9                                   | 27.7                                   | 29.5    | 31.4           | 33.3            | 35.3    | 37.2                                  | . 39.2  | 41.2    | 43.  |
| 122 .     | 530         | 530     | 132 KV Feroza        | 132                                    | 10.6    | 11.8                                   | 12.8                                   | 13.8    | 14.9           | 16              | 17.2    | 18.3                                  | 19.5    | 20.7    | 22   |
| 123       | 530         | 1366    | NawanKot             | 132                                    | 4.7     | 5.6                                    | 6.4                                    | 7.2     | 8.1            | . 8.9           | 9.8     | 10.8                                  | 11.7    | 12.6    | 13.  |
| 124       | 530         | 1237    | NawanKot             | 132                                    | 0       | 0                                      | 0                                      | 0       | • 0            | 0               | C       | 0                                     | υ       | 0       | . 0  |
| 125       | 531         | 531     | 132 KV J.D.W         | 132                                    | 36.1    | 38.9                                   | 40.2                                   | 41.5    | 42.9           | 44.3            | 45.8    | 47.3                                  | 48.8    | 50.3    | 51.  |
| 126       | 533         | 533     | 132 KV K. Bela       | 132                                    | 25.3    | 28.1                                   | 30.9                                   | 33.8    | 36.8           | 39.9            | 43      | 46.2                                  | 49.5    | 52.8    | 56.  |
| 127       | 533         | 1365    | NawanKot             | 132                                    | 7.6     | 8.7                                    | 9.7                                    | 10.7    | 11.7           | 12.8            | 13.9    | 15                                    | 16.1    | 17.3    | 18.  |
| 128       | 534         | 534     | 132 KV M.W.Q         | 132                                    | 28.8    | 31.5                                   | 33.9                                   | 36.3    | 38.8           | 41.4            | 44      | 46.7                                  | 49.5    | 52.3    | 55.  |
| 129       | 534         | 1334    | KotSamaba            | 132                                    | 7       | 7.8                                    | 8.3                                    | 8.8     | 9.4            | 9.9             | 10.5    | 11.1                                  | 11.7    | 12.3    | 12.  |
| 130       | 535         | 535     | 132 KV Sakhi Sa      | 132                                    | 8.9     | 9.6                                    | 10                                     | 10.4    | 10.8           | 11.2            | 11.7    | 12.1                                  | 12.5    | 13      | 13.  |
| 131       | 536         | 536     | 132 KV Sheikh f      | 132                                    | 27.1    | 28.9                                   | 29.9                                   | 30.9    | 31.9           | 33.1            | 34.2    | 35.3                                  | 36.5    | 37.7    | 38.  |
| 132       | 536         | 1339    | Gaggo                | 132                                    | 11.7    | 12.6                                   | 13.2                                   | 13.9    | 14.5           | 15.2            | 15.9    | 16.7                                  | 17.4    | 18.1    | 18.  |
| l         |             |         | <u> </u>             | •••••••••••••••••••••••••••••••••••••• |         | ······································ | •••••••••••••••••••••••••••••••••••••• | ·····   | · · ·          | 1. 1            | ·       | · · · · · · · · · · · · · · · · · · · |         |         |      |
|           | 11 A.1      |         |                      |                                        |         |                                        |                                        |         | n na<br>Line a |                 |         |                                       |         |         |      |

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|-----|-------|---------|----------------------|------------------|---------|---------|---------|---------|---------|---------------------|---------|---------|-----------------------------|---------|---------|
|     |       |         |                      |                  |         |         |         |         |         |                     |         |         |                             |         |         |
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|     | Group |         |                      |                  |         |         | 76      |         |         | Year                |         |         |                             |         |         |
| No. | No    | Grid No | Name of Grid Station | ĸv               | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23             | 2023-24 | 2024-25 | 2025-26                     | 2026-27 | 2027-28 |
| 133 | 537   | 537     | 132 KV Sahuka        | 132              | 33.9    | 37.9    | 39.8    | 41.8    | 43.9    | 46                  | 48.2    | 50.3    | 52.5                        | 54.7    | 56.9    |
| 134 | 537   | 1337    | Gaggo                | 132              | 6.9     | 7.6     | 8       | 8.5     | 9       | 9.5                 | 10      | 10.4    | 11                          | 11.5    | 12      |
| 135 | 538   | 538     | 132 KV Chak No.      | 132              | 26.9    | 29.4    | 30.6    | 31.8    | 33      | 34.3                | 35.6    | 37      | 38.3                        | 39.6    | 41      |
| 136 | 540   | 540     | 66 KV Dajal          | 66               | 6.3     | 6.5     | 6.6     | 6.7     | 6.8     | 6.9                 | 7.1     | 7.2     | 7.3                         | 7.5     | 7.6     |
| 137 | 541   | 1344    | Khichi Wala          | 132              | 7.3     | 8.8     | 10.2    | 11.6    | 13.1    | 14.6                | 16.1    | 17.6    | 19.2                        | 20.7    | 22.3    |
| 138 | 541   | 541     | 132 KV Faqirwal      | 132              | 4.6     | 5.3     | 6       | 6.8     | 7.5     | 8.3                 | 9.1     | 9.9     | 10.7                        | 11.5    | 12.3    |
| 139 | 542   | 542     | 66 KV Karor Lal      | 66               | 11.5    | 12.4    | 13.2    | 14      | 14.8    | 15.7                | 16.6    | 17.4    | 18.4                        | 19.3    | 20.2    |
| 140 | 542   | 1371    | Layyah-11            | 132              | 7.9     | 8.6     | 9.1     | 9.6     | 10.1    | 10.7                | 11.2    | 11.8    | 12.4                        | 13      | 13.6    |
| 141 | 543   | 543     | 66 KV KotSulta       | 66               | 6.3     | 6.7     | 7.2     | 7.6     | 8.1     | 8.6                 | . 9     | 9.5     | 10                          | 10.5    | 11      |
| 142 | 543   | 1368    | PirJaggi             | 132              | 2.9     | 3.1     | 3.3     | 3.6     | 3.8     | 4.1                 | 4.3     | 4.6     | 4.9                         | 5.1     | 5.4     |
| 143 | 543   | 1238    | PirJaggi             | 132              | 0       | 0       | 0       | 0       | 0       | .0                  | 0       | 0       | 0                           | 0       | 0       |
| 144 | 544   | 544     | 132 KV KotChut       | 132              | 25      | 25.9    | 26.5    | 27.1    | 27.7    | 28.4                | 29.1    | 29.8    | 30.5                        | 31.2    | 31.9    |
| 145 | 545   | 545     | 66 KV Minchinab      | 66               | 17.4    | 18.4    | 19.2    | 20      | 20.8    | 21.7                | 22.7    | 23.6    | 24.5                        | 25.4    | 26.4    |
| 146 | 546   | 546     | 132 KV Noor Sar      | 132              | 9       | 9.7     | 10.2    | 10.8    | 11.3    | 11.9                | 12.5    | 13.1    | 13.7                        | 14.4    | 15      |
| 147 | 546   | 1343    | Donga Bonga          | 132              | 4.4     | 4.7     | 4.9     | 5.2     | 5.5     | 5.8                 | 6.1     | 6.4     | 6.7                         | 7       | 7.3     |
| 148 | 546   | 1224    | Donga Bonga          | 132              | 0       | 0       | 0       | 0       | 0       | 0                   | 0       | 0       | 0                           | 0       | 0       |
| 149 | 547   | 1323    | D.G Khan-III         | 132              | 7.1     | 7.6     | 8       | 8.5     | 9       | 9.4                 | 9.9     | 10.4    | 11                          | 11.5    | 12      |
| 150 | 547   | 547     | 132 KV S.S.Din       | 132              | 6.4     | 6.9     | 7.2     | 7.6     | 8       | 8.4                 | 8.8     | 9.2     | 9.6                         | 10      | 10.5    |
| 151 | 547   | 1216    | D.G Khan-III         | 132              | 0       | 0       | 0       | 0       | 0       | 0                   | 0       | 0       | 0                           | 0       | 0       |

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|-----------------|-------|----------|----------------------------------------------------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Sr              | Group | Grid No  | Name of Grid Station                               | ĸv  |         |         |         |         |         | Year    |         |         |         |         |         |
| - NO-           | . NO. |          |                                                    |     | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 | 2026-27 | 2027-28 |
| 152             | 548   | 548      | 132 KV S/Lund                                      | 132 | 15.3    | 16.3    | 15.7    | 172.    | 17.6    | 18.1    | 18.7    | 19.2    | 19.7    | 20.2    | 2.0.8   |
| 153             | 549   | 549      | 66 KV Rang Pur                                     | 66  | 6.5     | 7.3     | 7.7     | 8.1     | 8.6     | 9.1     | 9.5     | 10      | 10.5    | 11      | 11.5    |
| 154             | 550   | 550      | 66 KV NawanKot                                     | 66  | 1.2     | 1.4     | 1.6     | 1.7     | · 1.9   | 2.1     | 2.3     | 2.4     | 2.6     | 2.8     | 3       |
| 155             | 551   | 551      | 132 KV Swi New                                     | 132 | 50.4    | 53.1    | 55.4    | 57.8    | 60.2    | 62.9    | 65.5    | 68.2    | 70.9    | 73.7    | 76.5    |
| 156             | 552   | 552      | 132 KV Mailsi                                      | 132 | 55.8    | 61.7    | 64.7    | 67.8    | 71      | 74.3    | 77.6    | 81      | 84.3    | 87.7    | 91.2    |
| 157             | 584   | 584      | 220 KV Y/Wala                                      | 220 | 33.8    | 35.2    | 36.2    | 37.2    | 38.3    | 39.4    | 40.6    | 41.8    | 43      | 44.2    | 45.5    |
| 158             | 589   | 589      | 132 KV Rojhan                                      | 132 | 7.5     | 7.6     | 7.7     | 7.8     | 7.9     | 8.1     | 8.2     | 8.3     | 8.5     | 8.6     | 8:7     |
| 159             | 602   | 602      | 66 KV Chotti                                       | 66  | 5.2     | 5.7     | 5.8     | 5.9     | 6       | 6.1     | 6.3     | 6.4     | 6.5     | 6.6     | 6.7     |
| 160             | 602   | 1313     | Maggi More                                         | 132 | 4.1     | 4.2     | 4.3     | 4.4     | 4.5     | 4.6     | 4.7     | 4.9     | 5       | 5.1     | 5.2     |
| 161             | 606   | 606      | 66 KV Maroot                                       | 65  | 19.4    | 24.1    | 27.9    | 31.6    | 35.4    | 39.2    | 43.1    | 47      | 51      | 55      | . 59    |
| 162             | 626   | 626      | 132 KV Baghdad                                     | 132 | 34.4    | 35.4    | 36.1    | 36 9    | 37.7    | 38.6    | 39.5    | 40.4    | 41.3    | 42.3    | 43.3    |
| 163             | 642   | 642      | 132 KV Fateh Pu                                    | 132 | 22.7    | 23.7    | 24.6    | 25.5    | 26.4    | 27.5    | 28.5    | 29.6    | 30.6    | 31.7    | 32.8    |
| 164             | 642   | 1373     | Layyah-II                                          | 132 | 0.8     | 0.8     | 0.8     | 0.9     | 0.9     | 0.9     | 1       | 1       | 1.1     | 1.1     | 1.1     |
| 165             | 642   | 1240     | Layyah-II                                          | 132 | 0       | 0       | 0       | 0       | 0       | 0       | 0       | Ò       | 0       | 0       | 0       |
| 166             | 685   | 685      | 132 KV Karam Pu                                    | 132 | 27.7    | 30.9    | 32.4    | 33.9    | 35.4    | 37      | 38.6    | 40.3    | 41.9    | 43.6    | 45.2    |
| 167             | 705   | 705      | 132 KV Fort Man                                    | 132 | 1       | 1.1     | 1.2     | 1.2     | 1.3     | 1.3     | 1.4     | 1.4     | 1.5     | 1.6     | 1.6     |
| 168             | 706   | 706      | 132 KV DG Cemen                                    | 132 | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       | 1       |
| 169             | 724   | 724      | 132 KV PARCO R/                                    | 132 | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     |
| 170             | 728   | 728      | 132 KV Chishtia                                    | 132 | 45.3    | 49.5    | 52.4    | 55.4    | 58.5    | 61.7    | 64.9    | 68.2    | 71.5    | 74.8    | 78.2    |

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|-------|---------|----------------------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Group | Grid No | Name of Grid Station | ĸv  |         |         |         |         |         | Year    |         |         |         |
| No    |         |                      |     | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
| 729   | 729     | 132 KV CTM Isma      | 132 | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     | 9.5     |
| 730   | 730     | 132 KV Chowk Az      | 132 | 16.1    | 17      | 17.9    | 18.8    | 19.8    | 20.8    | 21.8    | 22.8    | 23.8    |
| 730   | 1367    | PirJaggi             | 132 | 9       | 9.5     | 10.1    | 10.7    | 11.3    | 11.9    | 12.6    | 13.2    | 13.9    |
| 743   | 743     | 132 KV Jam Pur       | 132 | 12.6    | 13.2    | 13.8    | 14.4    | 15.1    | 15.8    | 16.6    | 17.3    | 18      |
| 743   | 1369    | Muhammad Pur De      | 132 | 3.4     | 3.6     | 3.8     | 4       | 4.2     | 4.4     | 4.7     | 4.9     | 5.1     |
| 763   | 763     | 132 KV Qasim Ba      | 132 | 30.2    | 30.9    | 31.6    | 32.3    | 33      | 33.8    | 34.6    | 35.5    | 36.3    |
| 766   | 766     | 132 KV M/Rashee      | 132 | 29.9    | 32.9    | 35      | 37.1    | 39.3    | 41.5    | 43.8    | 46.1    | 48.4    |
| 767   | 767     | 132 KV R.Y.K-II      | 132 | 39.7    | 44.9    | 50.2    | 55.5    | 60.9    | 66.5    | 72.2    | 78      | 83.8    |
| 767   | 1335    | KotSamaba            | 132 | 8.9     | 10.5    | 12      | 13.5    | 15.1    | 16.7    | 18.4    | 20      | 21.7    |
| 769   | 769     | 132 KV Khan Gar      | 132 | 14.7    | 15.7    | 16.8    | 17.9    | 19      | 20.1    | 21.3    | 22.5    | 23.7    |
| 773   | 773     | 132 KV Chunawal      | 132 | 3.6     | 3.9     | 4.2     | 4.6     | 4.9     | 5.3     | 5.6     | 6       | 6.4     |
| 775   | 775     | 132 KV Coca Col      | 132 | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     | 2.5     |
| 780   | 780     | 132 KV Lar           | 132 | 27.1    | 31.7    | 35      | 38.3    | 41.6    | 45.1    | 48.5    | 52      | 55.6    |
| 806   | 805     | 220 KV Vehari        | 220 | 21.6    | 23.5    | 24.5    | 25.5    | 26.6    | 27.7    | 28.8    | 29.9    | 31      |

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|-------------|-------------|---------|----------------------|---------------------|---------|---------|----------|----------------------------------------|----------|---------|---------|---------|---------|----------------------------|---------|
| Sr<br>No    | Group<br>No | Grid No | Name of Grid Station | ĸv                  |         |         |          |                                        |          | Year    |         |         |         |                            |         |
|             |             |         |                      |                     | 2017318 | 2018-19 | -2019-20 | 2020-21                                | 2021-22  | 2022-23 | 2023-24 | 2024-25 | 2025-26 | 2026-27                    | 2027-28 |
| 190         | 891         | 891     | 132 KV Alhamd T      | 132                 | 1.2     | 1.2     | 1.2      | 1.2                                    | 1.2      | 1.2     | 1.2     | 1.2     | 1.2     | 1.2                        | 1.2     |
| 191         | 924         | 924     | 132 KV Haroonab      | 132                 | 32      | 37.5    | 42.6     | 47.8                                   | 53.1     | 58.6    | 64.1    | 69.7    | 75.3    | 81.1                       | 86.9    |
| 192         | 924         | 1342    | Donga Bonga          | 132                 | 6.2     | 7.5     | 8.7      | 10                                     | 11.3     | 12.6    | 14      | 15.3    | 16.7    | 18.1                       | 19.5    |
| 193         | 927         | 927     | 132 KV Kahror P      | 132                 | 65.5    | 73.1    | 77.4     | 81.7                                   | 86.2     | 90.7    | 95.4    | 100     | 104.7   | 109.4                      | 114.1   |
| 194         | 932         | 932     | 132 KV Uch Shar      | 132                 | 21.9    | 24.1    | 25.6     | 27.2                                   | 28.9     | 30.5    | 32.3    | 34      | 35.7    | 37.5                       | 39.2    |
| 195         | 933         | 933     | 132 KV PMDC DGK      | 132                 | 1.5     | 1.5     | 1.5      | 1.5                                    | 1.5      | 1.5     | 1.5     | 1.5     | 1.5     | 1.5                        | 1.5     |
| 196         | 934         | 934     | 132 KV PAEC S.S      | 132                 | 9.2     | 9.2     | 9.2      | 9.2                                    | 9.2      | 9.2     | 9.2     | 9.2     | 9.2     | 9.2                        | 9.2     |
| 197         | 959         | 959     | 132 KV A.Hassan      | 132                 | 1.2     | 1.2     | 1.2      | 1.2                                    | 1.2      | 1.2     | 1.2     | 1.2     | 1.2     | 1.2                        | 1.2     |
| 198         | 982         | 982     | 132 KV Dunya Pu      | 132                 | 29.5    | 32      | 33.5     | 35                                     | 36.5     | 38.1    | 39.7    | 41.4    | 43      | 44.7                       | 46.3    |
| 199         | 989         | 989     | 132 KV Burewala      | 132                 | 50.1    | 53.3    | 55.2     | 57                                     | 59       | 61.1    | 63.2    | 65 3    | 67.4    | 69.6                       | 71.8    |
| 200         | 989         | 1325    | Machiwal             | 132                 | 15.6    | 16.7    | 17.3     | 18                                     | 18.7     | 19.4    | 20.2    | 20.9    | 21.7    | 22.5                       | 23.2    |
| 201         | 1041        | 1041    | 132 KV WAPDA To      | 132                 | 19.8    | 20.5    | 21.4     | 22.1                                   | 22.9     | 23.8    | 24.6    | 25.5    | 26.4    | 27.3                       | 28.2    |
| 202         | 1041        | 1354    | Buch Villas          | 132                 | 15      | 15.3    | 17       | 17.7                                   | 18.4     | 19.1    | 19.9    | 20.6    | 21.4    | 22.2                       | 22.9    |
| 203         | 1041        | 1353    | P.G.E.H.S            | 132                 | 11.2    | 11.8    | 12.3     | 12.8                                   | 13.3     | 13.8    | 14.4    | 14.9    | 15.4    | 16                         | 16.5    |
| 204         | 1041        | 1232    | Buch Villas          | 132                 | 0       | 0       | 0        | 0                                      | 0        | 0       | 0       | 0       | 0       | 0                          | 0       |
| 205         | 1041        | 1231    | P.G.E.H.S            | 132                 | 0       | 0       | 0        | 0                                      | 0        | 0       | 0 .     | 0       | 0       | 0                          | 0       |
| 206         | 1058        | 1058    | 132 KV Nawazaba      | 132                 | 23.2    | 25.9    | 27.4     | 28.9                                   | 30.5     | 32.2    | 33.9    | 35.6    | 37.3    | 39.1                       | 40.8    |
| 207         | 1058        | 1351    | Sanjar Pur           | 132                 | 2.6     | 2.9     | 3.1      | 3.3                                    | 3.5      | 3.8     | 4       | 4.2     | 4.5     | 4.7                        | 5       |
| 208         | 1058        | 1230    | Sanjar Pur           | 132                 | 0       | 0       | 0        | 0                                      | 0 .      | 0       | 0       | 0       | 0       | 0                          | 0       |
|             |             |         |                      |                     |         |         |          |                                        | <b>-</b> |         | · · ·   | d       |         | e e e e e.<br>Nel 1999 est | 71      |
|             |             |         |                      |                     |         |         |          | ۰.                                     |          |         |         |         |         | e en e<br>Se la constante  |         |
|             |             |         |                      |                     |         |         |          |                                        |          |         |         |         |         |                            |         |
|             |             |         |                      |                     |         |         |          |                                        |          | · .     |         |         |         |                            |         |

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| -ME | PCO                                    | Even    |                      |     |             |         |         |         |         |         | angen Transfording in Colorin |         |         |         |       |
|-----|----------------------------------------|---------|----------------------|-----|-------------|---------|---------|---------|---------|---------|-------------------------------|---------|---------|---------|-------|
| Sr  | Group                                  | Grid No | Name of Grid Station | ĸv  |             |         |         |         |         | Year    |                               |         |         |         | 1 - 3 |
| No. | No                                     |         |                      |     | 2017-18     | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24                       | 2024-25 | 2025-26 | 2026-27 | 2027- |
| 209 | 1059                                   | 1059    | 132 KV Makhdoom      | 132 | 19.9        | 21.6    | 22.9    | 24.1    | 25.4    | 26.8    | 28.1                          | 29.5    | 30.9    | 32.3    | 33.   |
| 210 | 1068                                   | 1068    | 132 KV BWP Cant      | 132 | 25.6        | 26      | 26.5    | 27      | 27.5    | 28.2    | 28.8                          | 29.4    | 30      | 30.7    | 31.   |
| 211 | 1072                                   | 1072    | 132 KV Jail Roa      | 132 | 29.9        | 31.9    | 33.4    | 35      | 36.6    | 38.2    | 39.9                          | 41.7    | 43.4    | 45.1    | 46.   |
| 212 | 1089                                   | 1089    | 132 KV Sahiwal       | 132 | 47.6        | 49.4    | 50.4    | 51.4    | 52.6    | 53.8    | 55.1                          | 56.4    | 57.7    | 59      | 60.   |
| 213 | 1093                                   | 1093    | 132 KV Bati Ban      | 132 | 6           | 6.3     | 6.5     | 6.8     | 7.1     | 7.4     | 7.7                           | 7.9     | 8.2     | 8.5     | 8.8   |
| 214 | 1099                                   | 1099    | 132 KV D.G Khan      | 132 | 39.2        | 40.1    | 41      | 42      | 43      | 44.2    | 45.4                          | 46.6    | 47.8    | 49      | 50.   |
| 215 | 1113                                   | 1113    | 132 KV Kamir         | 132 | 11.5        | 12.2    | 12.6    | 12.9    | 13.3    | 13.7    | 14.1                          | 14.5    | 14.9    | 15.3    | 15.   |
| 216 | 1113                                   | 1363    | Pak Pattan-II        | 132 | 5.1         | 5.3     | 5.6     | 5.8     | 6       | 6.2     | 6.5                           | б.7     | 7       | 7.2     | 7.    |
| 217 | 1113                                   | 1236    | Pak Pattan-II        | 132 | 0           | 0       | 0       | 0       | O       | 0       | 0                             | O       | 0       | 0       | 0     |
| 218 | 1115                                   | 1115    | 132 KV Man Kot       | 132 | 15.8        | 17      | 17.7    | 18.5    | 19.2    | 20      | 20.8                          | 21.6    | 22.4    | 23.2    | 24.   |
| 219 | 1115                                   | 1318    | Qadirpur Rawan       | 132 | 2.6         | 2.3     | 2.9     | 3.1     | 3.2     | 3.3     | 3.5                           | 3.6     | 3.8     | 3.9     | 4     |
| 220 | 1118                                   | 1118    | 132 Miran Pur        | 132 | 16 4        | 18.2    | 19.3    | 20.5    | 21.6    | 22.8    | 24                            | 25.2    | 26.4    | 27.7    | 28.   |
| 221 | 1118                                   | 1329    | Makhdoom Jahani      | 132 | 1.7         | 1.9     | 2       | 2.1     | 2.2     | 2.3     | 2.4                           | 2.5     | 2.6     | 2.7     | 2.3   |
| 222 | 1123                                   | 1123    | 132 KV Hota          | 132 | 25.7        | 27.8    | 28.3    | 28.8    | 29.3    | 29.9    | 30.5                          | 31.1    | 31.7    | 32.3    | 32.   |
| 223 | 1148                                   | 1148    | 132 KV Mubarak       | 132 | 12.7        | 13.6    | 14.1    | 14.6    | 15.1    | 15.7    | 15.3                          | 16.9    | 17.5    | 18.1    | 18    |
| 224 | 1241                                   | 1241    | Rahim Yar Khan       | 132 | 0           | 0       | 1.6     | 8       | 16      | 32      | 40                            | 40      | 40      | 40      | 40    |
|     | •••••••••••••••••••••••••••••••••••••• |         |                      |     | a<br>San sa | •       |         |         |         |         | ·                             | <u></u> | *       | *       |       |
|     |                                        |         |                      |     |             |         |         |         |         |         |                               |         |         |         |       |

 $\{a_i\}_{i \in \mathbb{N}} \in \mathbb{N}$ 

Sec. A.

-MEPCO Table 1-31: Category-wise Energy (kWh)and Maximum Demand (kW)of Substations for Year 2022-2 (Base Forecast)

| - Se<br>No | Se Grid<br>No. Number    | Name of Grid Station  | kV  | Unit | Domestic | Commercial | Public    | Small      | M&L       | Tube    | well   | Traction | Total of<br>Grid | . Power     | Reactive- |
|------------|--------------------------|-----------------------|-----|------|----------|------------|-----------|------------|-----------|---------|--------|----------|------------------|-------------|-----------|
|            |                          |                       |     |      |          |            | LIGHTINE. | . micuso y | moustries | Private | Public |          | Station          | Factor (76) | (Mvar)    |
| . 1        | 276                      | 122 KV Sidhaai        | 122 | kWh  | 121789   | 10837      | 32        | 3536       | 5342      | 16660   | 0      | 0        | 158196           | 0           |           |
|            | 576                      | ISZ KV SIUIIIIAI      | 152 | kW   | 40891    | 4948       | 12        | 538        | 1219      | 4564    | 0      | 0        | 41738            | U           | U         |
|            | 122                      | 122 KV/ M/Channy      | 127 | kWh  | 283020   | 34114      | 230       | 10879      | 102297    | 100312  | 0      | 0        | 530851           |             | 0         |
| 2          | 133                      | ISZ KV M/Channu       | 152 | kW   | 67309    | 9985       | 88        | 1656       | 23355     | 27483   | 0      | 0        | 107796           | U           | 0         |
|            | 547                      | 122 XV 5 5 Din        | 127 | kWh  | 17780    | 2035       | 0         | 762        | 2195      | 5823    | 0      | 0        | 28595            |             |           |
| 3          | 547                      | 152 KV 5.5.011        | 152 | kW   | 8457     | 929        | 0         | 116        | 500       | 1595    | 0      | 0        | 9278             | U           | 0         |
|            | 194                      | 127 11 5/5-++-        | 127 | kWh  | 43073    | 5131       | ٥         | 2766       | 64866     | 13973   | 0      | 0        | 129808           | 0           | 0         |
| 4          | 100                      | 152 KV 5/38118        | 132 | kW   | 17561    | 2343       | 0         | 421        | 14809     | 3828    | 0      | · 0      | 31169            | 0           | U         |
| 6          | 107                      | 122 KV Sul Old        | 122 | kWh  | 146427   | 40472      | 1053      | 6751       | 95699     | 29943   | 0      | 0        | 320345           | 0           | 0         |
|            | 102                      | 183 132 KV Swi Old    | 152 | kW   | 34824    | 10500      | 401       | 1028       | 21851     | 8204    | 0      | 0        | 65285            | U           | 0         |
|            | 959 132 KV A.Hassan Text | 122                   | kWh | 0    | 0        | 0          | 0         | 13673      | 0         | 0       | 0      | 13673    | 0                | 0           |           |
| 0          | . 959                    | 152 KV A.Hassan Text  | 152 | kW   | 0        | C          | О         | 0          | 1357      | 0       | 0      | 0        | 1357             | 0           | U         |
|            | 2                        | 172 KV A D Faart      | 122 | kWh  | 118013   | 8300       | 48        | 6905       | 11880     | 63099   | 0      | 0        | 208243           | 0           | 0         |
| 1          | 2                        | 132 KV A.P Caasi      | 152 | kW   | 39623    | 2871       | 18        | 1051       | 2713      | 17287   | 0      | Û        | 52758            | U           | U         |
|            | 50.1                     | 1 32 KV Albert Toutil | 172 | kWh  | 0        | 0          | 0         | 0          | 21298     | 0       | 0      | 0        | 21298            | 0           | 2         |
| l°.        | 891                      | 152 KV Alhamu Texti   | 152 | kW   | 0        | 0          | 0         | 0          | 1357      | 0       | 0      | 0        | 1357             | 0           | Ų         |
|            | 220                      | 122 KV/ Alt Due       | 127 | kWh  | 107087   | 26792      | 201       | 12198      | 6495      | 37236   | 0      | 0        | 190008           | 0           | 0         |
| 9          | . 229                    | 132 KV All Pur        | 152 | kW   | 39434    | 12234      | 76        | 1857       | 1481      | 10202   | 0      | 0        | 52227            | U           | U         |
| 10         |                          | 122 10 ( Ariffunda    | 122 | kWh  | 122730   | 15407      | 78        | 4456       | 23894     | 79400   | 0      | 0        | 245965           | 0           | 0         |
| 10         | 5                        | 5 132 KV Arifwala     | 152 | kW   | 46701    | 6281       | 30        | 678        | 5462      | 21753   | 0      | 0        | 64725            | 0           | U ·       |
|            |                          | 122 1/1 / 0 /010      | 177 | kWh  | 103603   | 13971      | 164       | 2039       | 48398     | 8653    | 0      | 0        | 176829           |             | 2         |
| 11         | Э                        | TOT VA PLINGES        | 152 | kW   | 21503    | 3067       | 63        | 310        | 11055     | 2371    | 0      | 0        | 32614            | U           | U         |
| 12         | 1068                     | 132 KV BWP Cantt      | 132 | kWh  | 98739    | 13922      | 340       | 3683       | 3035      | 2586    | 0      | 0        | 122306           | 0           | 0         |

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| ir | Grid        | Name of Grid Station   | RV.  | Unit | Domestic | Commercial         | Public<br>Lighting | Small<br>Industry | M&L    | Tube    | well   | Traction | Total of<br>Grid | Power<br>Factor (%) | Reactive<br>Power |
|----|-------------|------------------------|------|------|----------|--------------------|--------------------|-------------------|--------|---------|--------|----------|------------------|---------------------|-------------------|
|    |             |                        |      |      |          |                    |                    |                   |        | Private | Public |          | Station          |                     | (Mvar             |
|    |             |                        |      | kW   | 30464    | 4674               | 129                | 561               | 692    | 709     | 0      | 0        | 31644            |                     |                   |
|    | 626         | 122 IO ( Beak ded      | 122  | kWh  | 191066   | 20998              | 914                | 3885              | 12225  | 14663   | 0      | 0        | 243753           | 0                   | 0                 |
| 5  | 626         | 132 KV Bagndad         | 152  | kW   | 40391    | 5993               | 348                | 591               | 2789   | 4017    | 0      | 0        | 43304            | U                   | 0                 |
|    |             | 122 K) ( Dahawal Dur   | 122  | kWh  | 306553   | 61549              | 1301               | 8750              | 44848  | 10801   | Ū      | 0        | 433803           |                     | 0                 |
| +  | 8           | 132 KV Banawai Pul     | 152  | kW   | 72906    | 14638              | 495                | 1332              | 10239  | 2959    | 0      | 0        | 87183            | 0                   | U                 |
| -  | 10          | 122 KU Proti Malaak    | 122  | kWh  | 110379   | 7341               | 0                  | 3605              | 52832  | 97640   | 0      | 0        | 271797           | 0                   |                   |
| ,  | 12          | 132 KV BASU MAIOOK     | 152  | kW   | 36001    | 3223               | 0                  | 549               | 12064  | 26751   | 0      | 0        | 62870            | U                   | U                 |
|    | 1002        | 122 KV Rati Bangla     | 122  | kWh  | 23077    | 1332               | 21                 | 1967              | 96     | 4761    | 0      | 0        | 31252            | 0                   |                   |
|    | 1095        | 152 KV Dati baligia    | 152  | kW   | 7983     | 608                | 8                  | 299               | 21     | 1304    | 0      | 0        | 8179             | U                   |                   |
|    | 17          | 17 132 KV Bonga Havat  | 127  | kWh  | 61564    | 11434              | 8                  | 1135              | 1754   | 71094   | 0      | 0        | 146989           | 0                   |                   |
|    | 17          | 152 KV BOIIga Hayat    | 152  | kW   | 41340    | 5933               | 3                  | 173               | 399    | 19478   | 0      | 0        | 53861            | U                   | 0                 |
|    | 10          | 122 KV/ Person Rood    | 127  | kWh  | 347254   | 114618             | 3749               | 9280              | 19015  | 1461    | 0      | 0        | 495376           | 0                   |                   |
|    | 10          | 152 KV BOSAII KOAU     | 152  | kW   | 99102    | 36345              | 1426               | 1412              | 4340   | 400     | 0      | 0        | 121573           | U                   |                   |
|    | 20          | 122 KV Burgurala Nour  | 127  | kWh  | 212667   | 30201 <sup>.</sup> | 96                 | 9476              | 39041  | 48178   | 0      | 0        | 339659           |                     |                   |
|    | 20          | 132 KV BUIEWala NEW    | 152  | kW   | 60693    | 8619               | 37                 | 1442              | 8915 · | 13199   | 0      | 0        | 78969            | 0                   |                   |
|    | 080         | 122 K) ( Dunoursha old | 122  | kWh  | 56448    | 3267               | 0                  | 2243              | 15504  | 33421   | 0      | 0        | 110883           |                     |                   |
|    | 969         | 132 KV BUREWala Olu    | 152  | kW   | 53698    | 2869               | 0                  | 341               | 7164   | 9156    | 0      | 0 .      | 62245            | U                   | 0                 |
|    | 720         | 122 KV (CTM Ismailaba  | 127  | kWh  | 1        | 0                  | 0                  | 0                 | 80534  | 0       | 0      | 0        | 80536            | 0                   |                   |
|    | 729         | TSZ KV CHVI ISHIBIBDB  | 132  | kW   | 0        | 0                  | 0                  | 0                 | 10741  | 0       | 0      | 0        | 10741            | U                   | U                 |
|    | <b>F</b> 20 | 122 10/ Chall 211 (M/B | 122  | kWh  | 88047    | 4487               | 0                  | 4529              | 1148   | 37509   | 0      | 0        | 135720           |                     |                   |
|    | 528         | TOT VA CURK STITAR     | 152  | kW   | 32423    | 2049               | 0                  | 689               | 261    | 10276   | 0      | 0        | 36559            | U                   | 0                 |
| -  | E 2 0       | 127 KV Chak No 87/17   | 127  | kWh  | 84543    | 3150               | 0                  | 3672              | 5029   | 71755   | 0      | 0        | 168150           | 0                   |                   |
| •  | 558         | 152 KV CHak NO.83/12   | 132  | kW   | 24746    | 1564               | 0                  | 559               | 1150   | 19659   | 0      | 0        | 38142            | U                   |                   |
|    | .710        | 122 W/Chishting        | 122  | kWh  | 172126   | 16153              | 433                | 4475              | 24384  | 60611   | 0      | 0        | 278181           | 0                   | _                 |
|    | 120         | 28 132 KV Chishtian    | 1.52 | kW   | 54581    | 7376               | 165                | 681               | 5568   | 16606   | 0      | 0        | 67981            | U                   |                   |

| <u></u> } | <u>AEPC</u>          | 0                    |     |                  |            |            |         |          |          |         |        |          |                  | -          |          |
|-----------|----------------------|----------------------|-----|------------------|------------|------------|---------|----------|----------|---------|--------|----------|------------------|------------|----------|
| Sr<br>No  | Grid<br>Number       | Name of Grid Station | kV  | Unit             | - Domestic | Commercial | Public  | Smàll    | M&L      | Ťube    | well   | Traction | Total of<br>Grid | Power.     | Reactive |
|           |                      |                      |     |                  |            | 5          | egnenig | nicusu y | muusuies | Private | Public |          | Station          | Factor (%) | (Mvar)   |
| 25        | 29                   | 132 KV Choubara      | 137 | kWh              | 19193      | 3078       | 68      | 303      | 762      | 356     | 0      | 0        | 23760            |            |          |
|           |                      |                      | 152 | kW               | 9129       | 1528       | 26      | .46      | 173      | 98      | 0      | 0        | 9130             |            | 0        |
| 26        | 730                  | 132 KV Chowk Azam    | 132 | kWh              | 54676      | 7996       | 6       | 1593     | 10327    | 1090    | 0      | 0        | 75689            |            |          |
|           |                      |                      |     | kW               | 21523      | 3260       | 2       | 242      | 2358     | 299     | 0      | 0        | 22977            |            | 0        |
| 27        | 31                   | 132 KV Chowk Munda   | 132 | kWh              | 69101      | 14885      | 0       | 4730     | 93442    | 7331    | 0      | 0        | 189490           | 0          |          |
|           |                      |                      | ļ   | kW               | 10518      | 2427       | 0       | 720      | 21333    | 2008    | 0      | 0        | 29605            | U          | U        |
| 28        | 773                  | 132 KV Chunawala     | 132 | kWh              | 12016      | 984        | 0       | 1603     | 409      | 1713    | 0      | 0        | 16725            |            | 0        |
|           |                      |                      |     | kW               | 5715       | 401        | 0       | 244      | 92       | 469     | 0      | 0        | 5745             |            |          |
| 29        | 775                  | 132 KV Coca Cola     | 132 | kWh              | 0          | D          | 0       | 0        | 18678    | 0       | 0      | 0        | 18678            | 0          |          |
|           | L                    |                      |     | kW               | 0          | 0          | 0       | 0        | 2827     | 0       | 0      | 0        | 2.827            |            | 0        |
| 30        | 33                   | 3 132 KV D.G Khan 13 | 132 | kWh              | 191749     | 35979      | 172     | 5650     | 27036    | 23141   | 0      | 0        | 283726           | 0          | 0        |
|           | ļ                    |                      |     | kW               | 34202      | 6733       | 65      | 860      | 5174     | 6340    | 0      | 0        | 46218            | U          | 0        |
| 31        | 1099                 | 132 KV D.G Khan-II   | 132 | kWh              | 132959     | 23263      | 175     | 1420     | 6411     | 1235    | 0      | 0        | 165462           | 0          | 0        |
|           |                      |                      |     | kW               | 45994      | 10214      | 67      | 216      | 1463     | 338     | 0      | 0        | 49548            |            | 0        |
| 32        | 706                  | 132 KV DG Cement Fac | 132 | kWh              | 6          | 0          | 0       | 0        | 12256    | 0       | 0      | 0        | 12262            |            | 0        |
|           |                      |                      |     | kW               | 1 .        | <u> </u>   | 0       | 0        | 1131     | 0       | 0      | 0 -      | 1132             |            | U        |
| 33        | 261                  | 132 KV Dahran wala   | 132 | kWh              | 90816      | 9642       | 18      | 2766     | 3079     | 2587    | 0      | 0        | 108908           | 0          | 0        |
|           |                      |                      |     | kW               | 28798      | 3440       | 7       | 421      | 703      | 709     | 0      | 0        | 27261            | 0          | U        |
| 34        | 35                   | 132 KV Damar Wala    | 132 | <sup>+</sup> kWh | 69971      | 18055      | 0       | 63163    | 4951     | 23480   | 0      | 0        | 179619           | 0          | 0        |
|           | 35 132 KV Damar Wala |                      |     | kW               | 26625      | 8588       | 0       | 9614     | 1129     | 6433    | 0      | 0        | 41911            | 0          |          |
| 35        | 982                  | 132 KV Dupya Pur     | 132 | kWh              | 90113      | 8071       | 0       | 3612     | 8661     | 56228   | 0      | 0        | 166686           |            | 0        |
|           |                      |                      | ļ   | kW               | 31172      | 3685       | 0       | 550      | 1977     | 15405   | 0      | 0        | 42231            |            | 0        |
| 36        | 541                  | 132 KV Fagirwali     | 132 | kWh              | 42433      | 1734       | 0       | 1980     | 1811     | 597     | 0      | 0        | 48555            | 0          | . 0      |
|           | [                    |                      |     | kW               | 9688       | 566        | 0       | 301      | 418      | 164     | 0      | 0        | 8909             | U          |          |
| 37        | 642                  | 132 KV Fateh Pur     | 132 | kWh              | 89778      | 9271       | 21      | 4061     | 4093     | 3609    | 0      | 0        | 110833           | 0          | 0        |

|   | Grid   | Name of Grid Station    | kv  | Unit | Domestic | Commercial | Public   | Small    | M&L        | Tube    | well   | Traction   | Total of<br>Grid | Power      | Reactiv<br>Powe |
|---|--------|-------------------------|-----|------|----------|------------|----------|----------|------------|---------|--------|------------|------------------|------------|-----------------|
|   | Number |                         |     |      |          |            | Lighting | industry | Industries | Private | Public |            | Station          | Factor (%) | (Mvai           |
| Ī |        |                         |     | kW   | 31056    | 4601       | 8        | 618      | 934        | 989     | 0      | 0          | 30565            |            |                 |
| T | 274    | 122 101 5 1 0           | 172 | kWh  | 16230    | . 3812     | 0        | 655      | 3077       | 6601    | 0      | · 0        | 30375            |            |                 |
|   | 274    | 152 KV Fazal Pur        | 152 | kW   | 6389     | 1741       | 0        | 100      | 703        | 1808    | 0      | 0          | 8592             |            |                 |
| T | 520    | 122 /07 5               | 122 | kWh  | 45672    | 12089      | 0        | 1533     | 2216       | 5890    | 0      | 0          | 67399            |            |                 |
|   | 530    | 132 KV Feroza           | 152 | kW   | 14896    | 4600       | 0        | 233      | 504        | 1614    | 0      | 0          | 17478            | 0          |                 |
| Τ | 705    |                         | 177 | kWh  | 372      | 960        | 0        | 0        | 0          | 1463    | 0      | 0          | 2795             |            |                 |
|   | 705    | 132 KV FORT Manroo      | 152 | kW   | 424      | 1096       | 0        | 0        | 0,         | 401     | 0      | 0          | 1537             |            | 0               |
| T |        | 122 10/ 5- +-kb-+       | 177 | kWh  | 70484    | 7306       | 37       | 2772     | 5982       | 3863    | 0      | - 0        | 90444            |            |                 |
|   | 276    | 132 KV FORTabbas        | 152 | kW   | 20115    | 2780       | 14       | 422      | 1369       | 1058    | 0      | 0          | 20607            | 0          | U               |
| Τ |        | 132 KV Garah More       | 172 | kWh  | 112890   | 6321       | · 13     | 7198     | 7737       | 41155   | 0      | 0          | 175315           |            |                 |
|   | 42     | 132 KV Garan More       | 132 | kW   | 37903    | 3137       | 5        | 1096     | 1393       | 11275   | 0      | 0          | 43848            | 0          | : 0             |
| Τ |        | E2 122 KV/ Guirat South | 122 | kWh  | 29769    | 472        | 0        | 3191     | 4389       | 1441    | 0      | 0          | 39263            |            |                 |
|   | 52     | 132 KV Gujrat South     | 132 | kW   | 8496     | 216        | 0        | 486      | 808        | 395     | 0      | 0          | 8320             | 0          | 0               |
| T | 50     | 122 10 (1)              | 177 | kWh  | 112747   | 8310       | 0        | 2989     | 86191      | 50575   | 0      | 0          | 260812           |            |                 |
|   | 58     | 132 ку нагарра          | 132 | kW   | 35752    | 2314       | 0        | 455      | 19678      | 13856   | 0      | 0          | 57643            |            | . i . U         |
| Ī | 024    | 122 W ( Users and had   | 122 | kWh  | 210653   | 24628      | 28       | 4101     | 41901      | 10002   | 0      | 0          | 291314           | ~          |                 |
|   | 924    | 132 KV Haroonabad       | 132 | kW   | 57255    | 8519       | 11       | 624      | 9567       | 2740    | 0      | C ·        | 62973            |            |                 |
| Τ |        | 432.14(1)               | 122 | kWh  | 163673   | 19538      | 312      | 5922     | 22355      | 38860   | 0      | 0          | 250660           |            |                 |
|   | 472    | 132 KV Hasiipur         | 132 | kW   | 46710    | 6372       | 119      | 901      | 5104       | 10647   | . 0    | <u>,</u> 0 | 57978            | 0          |                 |
| T | 1122   | 172 (0/11-1-            | 122 | kWh  | 27827    | 1275       | 0        | 1294     | 254        | 73511   | 0      | 0          | 104161           |            |                 |
|   | 1123   | 132 KV HOTA             | 132 | kW   | 19854    | 1323       | 0        | 197      | 58         | 20140   | 0      | 0          | 33257            | U          | . 0             |
| T | rai    | 122 101 1 0 111         | 122 | kWh  | 58502    | 4736       | 0        | 3565     | 13430      | 74097   | 0      | 0          | 154331           |            |                 |
|   | 531    | 132 KV J.D.W            | 132 | kW   | 35149    | 2703       | 0        | 543      | 3066       | 20301   | 0      | 0          | 49409            | U          | 0               |
| T |        |                         | 122 | kWh  | 162745   | 14332      | 32       | 5805     | 13242      | 71490   | 0      | 0          | 267646           |            |                 |
| 1 | . 69   | T35 KA Jauaulau         | 132 | kW   | 46446    | 5113       | 12       | 884      | 3023       | 19586   | 0      | 0          | 62303            | U          | 0               |

Series Sugar Prairies

| No. | Number |                      |     |      |        |        | Lighting | Industry | , Industries | Private | Public | macuum   | Station | Factor (%) |
|-----|--------|----------------------|-----|------|--------|--------|----------|----------|--------------|---------|--------|----------|---------|------------|
| 50  | 1072   | 132 KV Jail Road     | 127 | kWh  | 123833 | 10921  | 488      | 5478     | . 42693      | 8419    | 0      | 0        | 191832  |            |
|     | 1072   |                      | 132 | kW · | 33658  | 3117   | 186      | 834      | 9749         | 2307    | 0      | 0        | 42372   | 0          |
| 51  | 285    | 132 KV Jalal Pur Pir | 132 | kWh  | 124482 | 8507   | 0        | 7697     | 13873        | 72440   | 0      | 0        | 226999  | 0          |
|     |        |                      | 152 | kW   | 41795  | 3884   | 0        | 1172     | 3173         | 19847   | 0      | 0        | 55897   |            |
| 52  | 293    | 132 KV Jam Pur       | 66  | kWh  | 43511  | 7484   | 0        | 975      | 4947         | 1206    | 0      | 0        | 58123   | 0          |
|     |        |                      | ļ   | kW   | 14609  | 3051   | 0        | 148      | 1128         | 330     | 0      | 0        | 15992   | U          |
| 53  | 743    | 132 KV Jam Pur       | 132 | kWh  | 50731  | 6905   | 54       | 899      | 3719         | 1021    | 0      | 0        | 63329   | 0          |
|     |        |                      | ļ   | kW   | 18098  | 2543   | 21       | 137      | 850          | 280     | 0      | 0        | 17542   |            |
| 54  | 75     | 132 KV Jatoi         | 132 | kWh  | 79893  | 194142 | 0        | 96910    | 5381         | 161450  | 0      | 0        | 537775  | 0          |
|     |        |                      |     | kW   | 32572  | 88649  | 0        | 14750    | 1228         | 44233   | 0      | 0        | 145146  |            |
| 55  | 533    | 132 KV K. Bela       | 132 | kWh  | 112342 | 24363  | 0        | 3088     | 1807         | 3979    | 0      | 0        | 145578  | 0          |
|     |        |                      |     | kW   | 40076  | 12092  | 0        | 470      | 411          | 1090    | 0      | 0        | 43311   |            |
| 56  | 83     | 132 KV K.P Sadat     | 132 | kWh  | 32088  | 5786   | 0        | 3175     | 1447         | 12586   | 0      | 0        | 55081   | 0          |
|     |        |                      |     | kW   | 14652  | 3002   | 0        | 483      | . 330        | 3448    | 0      | 0        | 17532   | L          |
| 57  | 297    | 132 KV K P Tamewali  | 132 | kWh  | 71048  | 4882   | 72       | 4849     | 2600         | 62224 - | 0      | 0        | 145675  |            |
|     |        |                      |     | kW   | 23173  | . 2229 | 27       | 738      | 592          | 17048   | 0      | <u>o</u> | 35046   | 0          |
| 58  | . 88   | 132 KV K/Khub        | 132 | kWh  | 105826 | 6677   | 0        | 3243     | 7985         | 95462   | 0      | 0        | 219193  | 0          |
|     |        |                      |     | kW   | 43145  | 3465   | 0 .      | 494      | 1822         | 26154   | 0      | · 0      | 60063   |            |
| 59  | 87     | 132 KV K/Wala        | 132 | kWh  | 118957 | . 7246 | 70       | 6914     | 71613        | 60609   | 0      | 0        | 265408  | 0          |
|     |        |                      | ļ   | kW   | 28893  | 2298   | 27       | 1052     | 16351        | 16605   | 0      | 0        | 52180   |            |
| 60  | 102    | 132 KV KNP           | 132 | kWh  | 135217 | 38847  | 10       | 5587     | 20603        | 7506    | 0      | 0        | 207770  |            |
|     |        |                      |     | kW   | 42877  | 11670  | 4        | 850      | 4715         | 2057    | 0      | 0        | 52847   | · •        |
| 61  | 103    | 132 KV KWL           | 132 | kWh  | 193704 | 19107  | 480      | 8086     | 28812        | 71860   | 0      | 0        | 322048  |            |
|     |        |                      |     | kW   | 48070  | 8725   | 183      | 1231     | 6586         | 19688   | 0      | 0        | 70120   |            |
| 62  | 104    | 132 KV KWL Road      | 132 | kWh  | 76289  | 6298   | 73       | 2301     | 159367       | 13423   | 0      | 0        | 257751  | 0          |

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|---------------|---------------------|----------------------|-----|-----------|----------|------------|----------|----------|------------|---------|-------------------|----------|------------------|------------|-----------|
| Sr            | Grid                | Name of Grid Station | kV. | Unit      | Domestic | Commercial | Public   | Small    | M&L        | Tube    | well              | Traction | Total of<br>Grid | Power      | Reactive- |
| 140.          | wumber              |                      |     |           |          |            | Lighting | Industry | Industries | Private | Public            |          | Station          | Factor (%) | (Mivar)   |
|               |                     |                      |     | kW        | 32255    | 2479       | 28       | 350      | 36392      | 3677    | 0                 | 0        | 63904            |            |           |
| 62            | 027                 | 122 KV Kabror Dacea  | 122 | kWh       | 155255   | 11114      | 90       | 5767     | 8257       | 192009  | 0                 | 0        | 372492           |            |           |
|               | 527                 | 132 KV Kamor Pacca   | 152 | · kW      | 63297    | 6343       | 34       | 878      | 1885       | 52605   | 0                 | 0        | 100034           | 1 0        | 0         |
| 64            | 1113                | 132 KV/Kamir         | 132 | kWh       | 27227    | 479        | . 0      | 580      | 3313       | 18072   | 0                 | 0        | 49671            |            |           |
|               |                     | 152 10 10111         | 152 | kW        | 12950    | . 322      | 0        | 88       | 758        | 4951    | 0                 | 0        | 15255            | 0          | U         |
| 65            | 685                 | 132 KV Karam Pur     | 132 | kWh       | 48767    | 1989       | 0        | 827      | 2661       | 80345   | 0                 | 0        | 134589           |            |           |
|               |                     |                      |     | kW        | 27835    | 649        | 0        | 126      | 607        | 22012   | 0                 | 0        | 40983            |            | U         |
| -66           | 769                 | 132 KV Khan Garh     | 132 | kWh       | 53235    | 5979       | 0        | 5116     | 2800       | 2766    | 0                 | 0        | 69896            | 0          | 0         |
|               |                     |                      |     | kW        | 22508    | 2967       | 0        | 779      | 638        | 758     | 0                 | 0        | 22120            |            | U         |
| 67            | 112                 | 132 KV Kot Adu       | 132 | kWh       | 110218   | 26180      | 467      | 10431    | 13697      | 10502 - | 0                 | C        | 171496           |            | 0         |
|               |                     |                      |     | <u>kW</u> | 29260    | 7865       | 178      | 1588     | 3130       | 2877    | 0                 | 0        | 35918            |            | 0         |
| 68            | 544                 | 132 KV Kot Chutta    | 132 | kWh       | 80689    | 8687       | 0        | 2138     | 37039      | 4721    | 0                 | 0        | 133274           | 0          |           |
| · · ·         |                     |                      |     | kW        | 26317    | 3419       | 0        | 325      | 8455       | 1293    | 0                 | 0        | 31849            | L          | 0         |
| 69            | 313                 | 132 KV Lal Sohanra   | 132 | kWh       | 21680    | 3163       | . 0      | 2570     | 2615       | 11034   | 0                 | 0        | 41061            | 0          | 0         |
| <u></u>       | 1<br>               |                      |     | kW        | 8250     | 1444       | . 0      | 391      | 598        | 3023    | 0                 | 0        | 10964            |            |           |
| 70            | 780                 | 132 KV Lar           | 132 | kWh       | 94219    | 6837       | 0        | 4688     | 50412      | 55056   | 0                 | 0        | 211211           | 0          |           |
|               |                     |                      |     | kW        | 30730    | 3122       | 0        | 713      | 11505      | 15084   | 0                 | 0        | 48924            | 0          |           |
| 71            | 316                 | 132 KV Lavyah        | 132 | kWh       | 98504    | 14844      | 324      | 5262     | 8169       | 4485    | 0                 | 0        | 131589           | 0          | 0         |
| -             | · · · · · · · · · · |                      |     | kW        | . 35140  | 5843       | 123      | 801      | 1865       | 1229    | 0                 | 0        | 37351            |            |           |
| 72            | 122                 | 132 KV Liagat Pur    | 132 | kWh       | 35097    | 9788       | 78       | 1310     | 4400       | 3939    | 0                 | 0        | 54612            | n          | 0         |
|               |                     |                      |     | kW        | 9106     | 3991       | 30       | 199      | 1013       | 1079    | 0                 | 0        | 12334            |            |           |
| 73            | 123                 | 132 KV Lodhran       | 132 | kWh       | 141746   | 12490      | 100      | 7079     | 22755      | 139695  | 0                 | 0        | 323864           | 0          |           |
|               |                     |                      |     | kW        | 55797    | 5281       | 38       | 1077     | 5197       | 38273   | 0                 | 0        | 84530            | Ŭ          |           |
| 74            | 317                 | 132 KV Ludden        | 132 | kWh       | 65888    | 3581       | 0        | 2393     | 5096       | 90351   | 0                 | 0        | 167309           | 0          | 0         |
|               | 317 132 KV Ludden   |                      | kW  | 28929     | 1947     | 0          | 364      | 1162     | 24754      | . 0     | 0                 | 45724    |                  | 5          |           |

|          |      | TRAINING ANY        |      |       | 96075  | 16204         |      | 4905  | 7000   | Private | Public |   |        |   |
|----------|------|---------------------|------|-------|--------|---------------|------|-------|--------|---------|--------|---|--------|---|
| 75       | 534  | 132 KV M.W.Q        | 132  | kWn   | 39715  | 10384<br>9352 | 3    | 4805  | 1790   | 18598   | 0      |   | 134598 | o |
|          |      |                     | 1    | kWh   | 175559 | 26095         | 169  | 8610  | 289242 | 15977   | 0      | 0 | 515652 |   |
| 76       | 140  | 132 KV M/Garh       | 132  | kW    | 51387  | 9930          | 64   | 1310  | 66042  | 4377    | 0      | 0 | 113144 | 0 |
|          | 700  | 122 10 ( M/Deshard  | 122  | kWh   | 95608  | 3822          | 0    | 4043  | 17355  | 46067   | 0      | 0 | 166894 |   |
|          | 766  | 132 KV W/Rasheed    | 132  | kW    | 36380  | 1455          | 0    | 615   | 3963   | 12621   | 0      | 0 | 45679  | 0 |
| 78       | 137  | 132 KV MESCO        | 132  | kWh   | 297491 | 90155         | 3226 | 14340 | 76567  | 1980    | 0      | 0 | 483759 |   |
| /0       | 1.52 | 152 KV MESCO        | 1.52 | kW    | 67920  | 22373         | 1228 | 2183  | 17481  | 542     | 0      | 0 | 94968  |   |
| 79       | 131  | 132 KV Mahra Khas   | 132  | kWh   | 101384 | 32432         | 0    | 27489 | 3154   | 24173   | 0      | 0 | 188632 | 0 |
|          |      |                     |      | kW    | 36167  | 16828         | 0    | 4184  | 720    | 6623    | 0      | 0 | 51617  | 0 |
| 80       | 552  | 132 KV Mailsi       | 132  | kWh   | 165733 | 14200         | 336  | 8200  | 11338  | 142843  | 0      | 0 | 342650 | 0 |
|          |      |                     |      | kW    | 54055  | 5590          | 128  | 1248  | 2587   | 39135   | 0      | 0 | 82194  | U |
| 81       | 1059 | 132 KV Makhdoom Pur | 132  | kWh . | 65678  | 5450          | 0    | 3753  | 4081   | 28635   | 0      | 0 | 108598 | 0 |
|          |      |                     |      | kW    | 23066  | 2304          | 0    | . 571 | 931    | 7845    | 0      | 0 | 29510  |   |
| 82       | 1115 | 132 KV Man Kot      | 132  | kWh   | 33345  | 2105          | 0    | 3155  | 3964   | 24559   | 0      | 0 | 67127  | 0 |
|          |      |                     |      | kW    | 17302  | 687           | 0    | 480   | .910   | 6728    | 0      | 0 | 22191  |   |
| 83       | 1148 | 132 KV Mubarak Pur  | 132  | kWh   | 29869  | 1962          | 0    | 1116  | 1451   | 17734   | 0      | 0 | 52132  | 0 |
|          |      |                     |      | kW.   | 142.07 | 1493          | 0    | 170   | 331    | 4859    | 0      | 0 | 17479  |   |
| 84       | 148  | 132 KV NA Wali      | 132  | kWh   | 69106  | 7022          | 0    | 3421  | 3025   | 73187   | 0      | 0 | 155761 | n |
|          |      |                     |      | kW    | 12137  | 1233          | 0    | 521   | 691    | 20051   | 0      | 0 | 27706  |   |
| 85       | 1058 | 132 KV Nawazabad    | 132  | kWh   | 32030  | 4066          | 0    | 2550  | 3780   | 58541   | 0      | 0 | 100967 | 0 |
|          |      |                     |      | kW    | 22853  | 4220          | 0    | 388   | 862    | 16039   | 0      | 0 | 35488  |   |
| 86       | 196  | 132 KV Noor Pur     | 132  | kWh   | 48809  | 2192          | 5    | 1514  | 18094  | 62842   | 0      | 0 | 133455 | 0 |
|          | EAC  | 122 KV Noor Ser     | 122  | kW    | 23216  | 1001          | 2    | 230   | 4130   | 17217   | 0      | 0 | 36636  |   |
| <u>~</u> | 540  | 152 KV NOOL Sal     | 152  | kWh   | 38993  | 2346          | 0    | 1451  | 2478   | /432    | • 0    | 0 | 52700  | 0 |

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|     | EPC               | 0                    |     |      |          | -          |          |          |            |         |        |          |                  |            | •         |
|-----|-------------------|----------------------|-----|------|----------|------------|----------|----------|------------|---------|--------|----------|------------------|------------|-----------|
| .Sr | Grid              | Name of Grid Station | ĸ   | Unit | Domestic | Commercial | Public   | Small .  | M&L        | Tube    | well   | Traction | Total of<br>Grid | Power      | Reactive- |
| No. | Number            |                      |     |      |          |            | Lighting | Industry | Industries | Private | Public |          | Station          | Factor (%) | (Nivar)   |
|     |                   |                      |     | kW   | 12718    | 924        | 0        | 221      | 566        | 2036    | 0      | 0        | 13172            |            |           |
|     | 0.7.4"            | 100 101 01 50 6 6    | 122 | kWh  | 39265    | 0          | 0        | 0        | 0          | 0       | 0      | 0        | 39265            |            |           |
| 88  | 934               | 132 KV PAEC S.Sarwar | 132 | kW   | 10424    | 0          | 0        | 0        | 0          | 0       | 0      | 0        | 10424            |            | U         |
| -   | 77.4              | 122 10/ 04 000 0/000 | 122 | kWh  | 1        | 0          | 0        | 0        | 16372      | 0       | 0      | 0        | 16373            |            |           |
| 89  | 724               | 132 KV PARCO R/Pur   | 152 | kW   | 0        | 0          | 0        | 0        | 3279       | 0       | 0      | 0        | 3279             |            |           |
|     |                   | 122 101 2000 000     | 122 | kWh  | 6076     | 0          | 0        | 0        | 0          | 0       | . 0    | 0        | 6076             |            |           |
| 90  | 933               | 152 KV PIVIDE DGK    | 152 | kW   | 1734     | 0          | 0        | 0        | 0          | 0       | 0      | 0        | 1734             |            |           |
|     | 154               | 122 KV Dakaattaa     | 127 | kWh  | 188794   | 17777      | 193      | 5041     | 31435      | 156475  | 0      | 0        | 399716           | 0          |           |
| 91  | 154               | 152 KV Pakpattan     | 152 | kW   | 65309    | 6342       | 73       | 767      | 7175       | 42870   | 0      | 0        | 98029            |            |           |
|     | 105               | 165 132 KV Qaboola   | 122 | kWh  | 61728    | 1906       | 0        | 1712     | 4314       | 107947  | 0      | 0        | 177607           |            |           |
| 92  | 165               | 132 KV Qaboola       | 152 | kW   | 32030    | 1088       | 0        | 261      | 984        | 29574   | 0      | 0        | 51149            | U          |           |
|     | 100               |                      | 177 | kWh  | 92279    | 3094       | 0        | 1751     | 14050      | 10288   | 0      | D        | 121462           | 0          |           |
| 93  | 100               | 132 KV Qadir Abad    | 152 | kW   | 37622    | 1413       | 0        | 266      | 3208       | 2819    | 0      | 0        | 36262            |            | U         |
|     | 760               | 122 KV Oneine Bach   | 122 | kWh  | 122000   | 17757      | 3747     | 27254    | 9850       | 1986    | 0      | 0        | 182594           |            |           |
| 94  | 763               | 132 KV Qasim Bagii   | 152 | kW   | 30949    | 5334       | 1426     | 4148     | 2248       | 544     | 0      | 0        | 37952            |            | Ŭ         |
|     | 169               | 122 KV Opsimbus      | 122 | kWh  | 275596   | 45705      | 1804     | 28402    | 177925     | 33349   | 0      | 0        | 562781           | 0          |           |
| 95  | 108               | 152 KV Qasimput      | 152 | kW   | 78652    | 14101      | 686      | 4323     | 40523      | 9137    | 0      | 0        | 118017           | 0          |           |
| 25  | 171               | 122 101 0 11 1       | 122 | kWh  | 357905   | 61082      | 496      | 18004    | 266196     | 44875   | 0      | 0        | 748558           | ~          | 0         |
| 96  | 1/1               | 152 KV R. T.K        | 152 | kW   | 65898    | 11621      | 189      | 2740     | 60773      | 12294   | 0      | 0        | 130488           | 0          |           |
| 07  | 767               |                      | 127 | kWh  | 123433   | 28359      | 139      | 3057     | 107155     | 4713    | 0      | 0        | .266857          |            |           |
| 3/  | /6/               | 152 KV K.T.K-11      | 152 | kW   | 45453    | 12950      | 53       | 465      | 24472      | 1291    | 0      | 0        | 71981            | U U        |           |
|     | 254               | 122 KV Paian Dur     | 127 | kWh  | 110556   | 18379      | 335      | 4277     | 15733      | 18384   | 0      | 0        | 167664           | 0          |           |
| 98  | 354               | 152 KV Kajan Pur     | 152 | kW   | 35057    | 5994       | 127      | 651      | 3591       | 5037    | 0      | 0        | 40366            |            |           |
| 00  | E 20              | 122 KV/ Poihan       | 127 | kWh  | 17304    | 5140       | 6        | 1162     | 449        | 3700    | 0      | Ŋ        | 27761            | 0          |           |
| 39  | 589 132 KV Rojhan | 132                  | kW  | 7901 | 2173     | 2          | 177      | 102      | 1014       | 0       | 0      | 9096     | U                |            |           |

| Sr.<br>No. | Grid<br>Number | Name of Grid Station | kv í | Unit | Domestic | commercial | Public<br>Lighting | Small<br>Industry | M&L<br>Industries | , Tube<br>Private | well<br>Public | Traction | Total of<br>Grid<br>Station | Power<br>Factor (%)                   | Reactive<br>Power<br>(Myas)           |
|------------|----------------|----------------------|------|------|----------|------------|--------------------|-------------------|-------------------|-------------------|----------------|----------|-----------------------------|---------------------------------------|---------------------------------------|
| 100        | 181            | 132 KV S.D.K         | 132  | kWh  | 209395   | 53975      | 0                  | 6187              | 74888             | 71489             | 0              | 0        | 415934                      | 0                                     | 0                                     |
|            |                |                      |      | kW   | 55590    | 17604      | 0                  | 942               | 17103             | 19586             | 0              | · 0      | 94201                       |                                       |                                       |
| 101        | 548            | 132 KV S/Lund        | 132  | kWh  | 50064    | 4099       | 0                  | 956               | 10312             | 23178             | 0              | • 0      | 88608                       | 0                                     | o                                     |
|            |                |                      |      | kW   | 14288    | 2278       | 0                  | 146               | 2351              | 6350              | 0              | 0        | 20290                       |                                       |                                       |
| 102        | 1089           | 132 KV Sahiwal III   | 132  | kWh  | 113421   | 9401       | 176                | 2019              | 25925             | 34972             | 0              | 0        | 185914                      | 0.                                    | 0                                     |
|            |                |                      |      | _ kW | 53948    | 5648       | 67                 | 307               | 5917              | 9581              | 0              | 0        | 60375                       |                                       | · · · · · · · · · · · · · · · · · · · |
| 103        | 537            | 132 KV Sahuka        | 132  | kWh  | 61336    | 1347       | 0 .                | 1342              | 2486              | 105787            | 0              | 0        | 172298                      | 0                                     | · c                                   |
|            |                |                      |      | kW   | 33342    | 439        | 0                  | 204               | 569               | 28983             | 0              | 0        | 50830                       | · · · · · · · · · · · · · · · · · · · |                                       |
| 104        | 535            | 132 KV Sakhi Sarwer  | 132  | kWh  | 28796    | 3285       | 0                  | 361               | 35779             | 5620              | 0              | 0        | 73841                       | 0                                     | 0                                     |
|            |                |                      |      | kW   | 5767     | 692        | 0                  | 55                | 8170              | 1540              | 0              | 0        | 12971                       | ļ                                     |                                       |
| 105        | 536            | 132 KV Sheikh fazal  | 132  | kWh  | 81184    | 5557       | 0                  | 4375              | 14507             | 39922             | 0              | 0        | 145545                      | . 0                                   | 0                                     |
|            |                |                      |      | kW   | 28084    | 3021       | 0                  | 566               | 3313              | 10937             | 0              | 0        | 36817                       |                                       |                                       |
| 106        | 374            | 132 KV Shujabad      | 132  | kWh  | 146773   | 10299      | 259                | 9178              | 12728             | 71984             | 0              | 0        | 251221                      | 0                                     | G                                     |
|            |                |                      |      | kW   | 52359    | 4703       | 98                 | 1397              | 2908              | 19722             | 0              | 0        | 64949                       |                                       |                                       |
| 107        | 551            | 132 KV Swi New       | 132  | kWh  | 203476   | 30822      | 470                | 6363              | 26309             | 16512             | 0              | 0        | 283953                      | n                                     | n                                     |
|            |                |                      |      | kW   | 61125    | 9259       | 179                | 968               | 6006              | 4524              | 0              | 0        | 69753                       |                                       |                                       |
| 108        | 216            | 132 KV Taunsa        | 132  | kŴh  | 109241   | 13478      | 0                  | 3266              | 11199             | 32742             | . 0            | 0        | 169925                      | 6                                     | 0                                     |
|            |                |                      |      | kW   | 31176    | 6689       | 0                  | 497               | 2556              | 8970              | 0              | 0        | 39911                       | , v                                   |                                       |
| 109        | 937            | 132 KV/ Lich Sharif  | 132  | kWh. | 80524    | 6252       | 1                  | 4965              | 3853              | 40099             | 0              | 0        | 135695                      |                                       |                                       |
|            | 552            |                      |      | kW   | 26263    | 3103       | 0                  | 756               | 879               | 10986             | - 0            | 0        | . 33590                     |                                       | 0                                     |
| 110        | 710            | 132 KV Vebari        | 122  | kWh  | 202140   | 48971      | 495                | 13887             | 28463             | 97271             | 0              | 0        | 391226                      | 0                                     | 0                                     |
| 110        | 215            |                      |      | kW   | 57688    | 16442      | 188                | 2114              | 6502              | 26650             | 0              | 0        | 90955                       | U                                     | U                                     |
| 111        | 220            | 132 KV Vehari Boad   | 132  | kWh  | 288579   | 43548      | 1635               | 54502             | 87111             | 16542             | 0              | 0        | 491916                      | 0                                     | 0                                     |
| 111        | 220            | 152 KV Venari Kodu   | 1.72 | kW   | 59896    | 11047      | 622                | 8296              | 19837             | 4532              | 0              | 0        | 88638                       | 0                                     | Ū                                     |
| 112        | 1041           | 132 KV WAPDA Town    | 132  | kWh  | 96067    | 9334       | 447                | 967               | 4992              | 41                | 0              | 0        | 111849                      | 0                                     | 0                                     |
|            |                |                      |      |      |          |            |                    |                   |                   |                   |                |          |                             |                                       | 8                                     |
|            |                |                      |      |      | - * *    |            |                    | <u>.</u>          | 132.00            |                   |                |          |                             |                                       |                                       |
|            |                |                      |      |      | • • • •  |            |                    |                   |                   |                   |                |          | e de es                     | 7                                     |                                       |

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| 1. M. C. M. March 197                 |
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The second staff

| <u>-</u> | (EPC)          |                      |     |          |          |            |                    |                   |                   |          |        |          |                  |       |           |
|----------|----------------|----------------------|-----|----------|----------|------------|--------------------|-------------------|-------------------|----------|--------|----------|------------------|-------|-----------|
| Sr       | Grið<br>Number | Name of Grid Station | ×   | Unit, Do | Domestic | Commercial | Public<br>Lighting | Small<br>Industry | M&L<br>Industries | Tubewell |        | Traction | Total of<br>Grid | Power | Reactive- |
| NO.      |                |                      |     |          |          |            |                    |                   |                   | Private  | Public |          | Station          |       | (Mivar)   |
|          |                |                      |     | kW       | 26748    | 2880       | 170                | 147               | 1147              | 11       | 0      | 0        | 26438            |       |           |
|          |                | 404 132 KV Yazman    | 122 | kWh      | 105366   | 10550      | 182                | 4880              | 9611              | 1435     | 0      | 0 ·      | 132025           | 0     | C         |
| 113      | 404            |                      | 132 | kW       | 26729    | 3441       | 69                 | 743               | 2193              | 393      | 0      | 0        | 26855            | U     | U         |
|          | 27             | 132 KV chichawatni   | 132 | kWh      | 162889   | 22456      | 0                  | 5922              | 38943             | 56440    | 0      | 0        | 286651           | 0     | 0         |
| 114      | 27             |                      |     | . kW     | 47679    | 6746       | 0                  | 901               | 8897              | 15463    | 0      | 0        | 67733            | U     |           |
|          | CT.            | 132 KV industrial Es | 127 | kWh      | 250055   | 20766      | 215                | 8606              | 21.8766           | 13347    | 0      | 0        | 511756           | 0     | 0         |
| 115      | 60             |                      | 152 | kW       | 55971    | 4559       | 82                 | 1310              | 49944             | 3657     | 0      | 0        | 98194            |       | . 0       |
| 116      | 1110           | 3 132 Miran Pur      | 132 | kWh      | 29316    | 1354       | 0                  | 1197              | 516               | 32309    | 0      | 0        | 64691            | 0     | 0         |
| 110      | 1110           |                      |     | kW       | 19686    | 1405       | 0                  | 182               | 118               | 8852     | 0      | 0        | 25101            |       |           |
|          | 815            | 220 KV Nau Abad B/P  | 220 | kWh      | 60105    | 3327       | 59                 | 5164              | 13342             | 36968    | 0      | 0        | 118964           | - 0   |           |
| 117      |                |                      |     | kW       | 18544    | 2234       | 22                 | 786               | 3046              | 10128    | 0      | 0        | 27808            |       | U         |
|          | 818            | 220 KV PARCO Gujrat  | 220 | kWh      | 0        | 0          | 0                  | 0                 | 231729            | 0        | 0      | 0        | 231729           | - 0   |           |
| 118      |                |                      |     | kŴ       | 0        | 0          | 0                  | 0                 | 48957             | 0        | 0      | 0        | 48957            |       | U         |
| 119      | 806            | 220 KV Vehari        | 220 | kWh      | 73930    | 4732       | 180                | 5423              | 11781             | 43344    | 0      | 0        | 139391           | 0     |           |
|          |                |                      |     | kW       | 21099    | 1801       | 69                 | 825               | 2689              | 11875    | C      | 0        | 30686            |       | U         |
| 120      | 584            | 220 KV Y/Wala        | 220 | kWh      | 94118    | 19611      | 333                | 3915              | 49005             | 2632     | 0      | 0        | 169614           | - 0   | 0         |
|          |                |                      |     | kW       | 33575    | 8955       | 127                | 596               | 11187             | 721      | υ      | 0        | 44128            |       |           |
| 121      | 115            | 66 KV Bakhshan Khan  | 66  | kWh      | 10174    | 4832       | 0                  | 3106              | 850               | 5590     | C      | 0        | 24551            | 0     | 0         |
|          |                |                      |     | kW       | 4839     | 2206       | 0                  | 473               | 193               | 1532     | 0      | 0        | 7672             |       |           |
| 122      | 253            | 66 KV Chishtian      | 66  | kWh      | 23940    | 5724       | 76                 | 1550              | 159               | 7995     | 0      | 0        | 39444            | 0     |           |
|          |                |                      |     | kW       | 10122    | 2614       | 29                 | 236               | 35                | 2191     | 0      | 0        | 12181            |       |           |
| 123      | 602            | 66 KV Chotti         | 66  | kWh      | 9299     | 595        | 0                  | 488               | 50                | 21380    | 0      | 0        | 31812            | . 0   | 0         |
|          |                |                      |     | kW       | 2469     | 206        | 0                  | 74                | 13                | 5858     | 0.     | 0        | 6896             |       |           |
| 124      | 540            | 66 KV Dajal          | 56  | kWh      | 19849    | 2595       | 0                  | 365               | 1030              | 5938     | 0      | 0        | 29778            | 0     | 0         |

| <u> </u> | <b>TEPC</b>    | 0                    |     |      |          |            |                    |                   |                   |                 |                |          |                             |                     |                              |
|----------|----------------|----------------------|-----|------|----------|------------|--------------------|-------------------|-------------------|-----------------|----------------|----------|-----------------------------|---------------------|------------------------------|
| Sr<br>Na | Grid<br>Number | Name of Grid Station | kV  | Unit | Domestic | Commercial | Public<br>Lighting | Small<br>Industry | M&L<br>Industries | Tube<br>Private | well<br>Public | Traction | Total of<br>Grid<br>Station | Power<br>Factor (%) | Reactive-<br>Power<br>(Mvar) |
|          |                |                      |     | kW   | 6866     | 988        | 0                  | 56                | 235               | 1627            | 0              | 0        | 7817                        |                     |                              |
| 125      | 852            | 66 KV Head Rajkan    | 66  | kWh  | 24459    | 1523       | 0                  | 788               | 4564              | 5797            | 0              | 0        | 37132                       | 0                   | 0                            |
|          |                |                      |     | kW   | 6980     | 695        | 0                  | 120               | 1041              | 1588            | 0              | 0        | 8340                        |                     |                              |
| 126      | 542            | 66 KV Karor Lal Easo | 66  | kWh  | 49774    | 8509       | 227                | 1612              | 2421              | 7026            | 0              | 0        | 69569                       | 0                   | 0                            |
|          |                |                      |     | kW   | 14569    | 4223       | 86                 | 245               | 553               | 1925            | 0              | 0        | 17282                       |                     |                              |
| 127      | - 397          | 66 KV Kot Khalifa    | 66  | kWh  | 61893    | 5328       | 0                  | 1805              | 4864              | 12902           | 0              | 0        | 86792                       | 0                   | 0                            |
|          |                |                      |     | kW   | 32115    | 1901       | 0                  | 2.75              | 1110              | 3535            | 0              | 0 -      | 31148                       |                     |                              |
| 178      | 542            | 66 KV Kot Sultan     | 66  | kWh  | 41901    | 4796       | 19                 | 2142              | 1661              | 1395            | 0              | C        | 51914                       | - 0                 | o                            |
| 120      |                |                      |     | ₩    | 9379     | 1304       | .7                 | 326               | 380               | 382             | 0              | 0        | 9422                        |                     |                              |
| 170      | 606            | 66 KV Maroot         | 66  | kWh  | 57653    | 3319       | 0                  | 447               | 12245             | 75229           | . 0            | 0        | 148892                      | 0                   | o                            |
|          |                |                      |     | kW   | 27423    | 1579       | -0                 | 68                | 2793              | 20611           | 0              | 0        | 41978                       |                     |                              |
| 120      | 327            | SE KV Malad Guni     | 66  | kWh  | 65004    | 4596       | 0                  | 1865              | 5689              | 9103            | 0              | 0        | 86357                       | 0                   | 0                            |
| 130      | 121            |                      |     | kW   | 21202    | 1787       | 0                  | 284               | 1298              | 2494            | 0              | 0        | 21651                       |                     |                              |
| .121     | 545            | 66 KV Minchinabad    | 66  | kWh  | 63175    | 5249       | 0                  | 1675              | 1666              | 12941           | . 0            | 0        | 84706                       | 0                   | ο                            |
| 131      |                |                      |     | kW'  | 23264    | 2724       | 0                  | 255               | 380               | 3545            | 0              | 0        | 24134                       |                     |                              |
| 127      | 550            | 65 KV Nawan Kat      | 66  | kWh  | 6058     | 842        | 0                  | 27                | 216               | 335             | 0              | 0        | 7477                        | 0                   | 0                            |
| 152      | 550            | OU KV Nawan Kut      | 00  | kW   | 2305     | 370        | 0                  | 4                 | 49                | 92              | 0              | 0        | . 2255                      |                     |                              |
| 177      | 540            | 66 KV Rang Pur       | 66  | kWh  | 13117    | 3428       | 17                 | 1197              | 1560              | 20078           | • • 0 •        | 0        | 39395                       | - 0                 | 0                            |
| 155      | 549            |                      |     | kW   | 4991     | 1449       | 6                  | 182               | 355               | 5501            | 0              | 0        | 9987                        |                     |                              |
| 474      | 1221           | Arifwala-II          | 132 | kWh  | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           | - 0                 | 0                            |
| 134      | 1221           |                      |     | kW   | ,0       | 0          | ." • <b>0</b> ."   | 0                 | 0                 | 0.              | 0 .            | . 0      | 0                           |                     |                              |
| 125      | 1222           | 33 Arifwala-II       | 122 | kWh  | 55759    | 3147       | 0                  | 3283              | 21973             | 42793           | 0              | 0        | 126955                      |                     |                              |
| 132      | 1333           |                      | 152 | kW   | 16974    | 1026       | · .0               | 400               | 4008              | 8905            | 0              | 0        | 25404                       | U                   | . 0                          |
| 170      | . 1226         | Bahawal Nagar-li     | 132 | kWh  | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           | 0                   | 0                            |
| 130      | 1220           |                      |     | kW   | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           |                     |                              |
|          |                |                      |     |      |          |            |                    |                   |                   |                 |                |          |                             |                     | 83                           |
|          |                |                      |     |      |          |            |                    |                   |                   | - 11            | :<br>•         |          |                             |                     |                              |
| ÷ 1      |                |                      |     |      |          |            | 1                  |                   |                   |                 |                |          |                             |                     |                              |

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|-----------|----------------|----------------------|-------------------|---------------|----------|------------|--------------------|--------------------------------------------------|-------------------|------------------|----------------|-----------|-----------------------------|---------------------|-----------------------------------------|
| Sr<br>No. | Grid<br>Number | Name of Grid Station | kv                | Unit          | Domestic | Commercial | Public<br>Lighting | Small<br>Industry                                | M&L<br>Industries | Tuber<br>Private | well<br>Public | Traction  | Total of<br>Grid<br>Station | Rower<br>Factor (%) | Reactive-<br>Power<br>(Mivar)           |
| 100201    |                |                      |                   | kWh           | 108678   | 10321      | 80                 | 4114                                             | 35940             | 20339            | 0              | 0         | 179473                      |                     |                                         |
| 137       | 1346           | Bahawal Nagar-II     | 132               | kW            | 18045    | 1813       | 24                 | 501                                              | 6559              | 4274             | 0              | 0         | 26908                       | 0                   | 0                                       |
|           |                |                      |                   | kWh           | 0        | 0          | 0                  | 0                                                | 0                 | 0                | 0              | 0         | 0                           |                     | ``````````````````````````````````````` |
| 138       | 1232           | Buch Villas          | 132               | kW            | 0        | 0          | 0                  | 0                                                | 0                 | . 0              | 0              | 0         | 0                           | 0                   | 0                                       |
|           |                | 5 1 1 1 1            | 100               | kWh           | 79637    | 8517       | 7                  | 5162                                             | 14200             | 6372             | 0              | 0         | 113894                      |                     |                                         |
| 139       | 1354           | Buch Villas          | 132               | kW            | 17738    | 2102       | z                  | 629                                              | 2592              | 1362             | 0              | 0         | 21172                       | 0                   | 0                                       |
| 140       | 1210           | D.C.Khara III        | 122               | kWh           | 0        | 0          | 0                  | 0                                                | 0                 | 0                | 0              | 0         | 0                           |                     | 0                                       |
| 140       | 1216           | D.G Knan-III         | 132               | kW            | 0        | 0          | 0                  | 0                                                | 0                 | 0                | 0              | 0         | 0                           | U                   |                                         |
|           | 1222           | D C Khara III        | 122               | kWh           | 10180    | 1947       | 0                  | 229                                              | 2662              | 150              | 0              | 0         | 15168                       |                     | 0                                       |
| 141       | 1322           | D.G Knan-III         | 152               | kW            | 1453     | 291        | 0                  | 28                                               | 484               | 33               | 0              | 0         | 1955                        | U                   | 0                                       |
| 147       | 1222           | D.C.Khan III         | 127               | kWh           | 26907    | 2920       | 0                  | 1592                                             | 3469              | 2313             | 0              | 0         | 37202                       | 0                   |                                         |
| 142       | 1325           |                      | 132               | kW            | 10239    | 1067       | 0                  | 194                                              | 634               | 451              | 0              | 0         | 10420                       | U                   |                                         |
| 147       | 1725           | Derawar Maro         | 127               | kWh           | 0        | C          | 0                  | 0                                                | 0                 | 0                | 0              | 0         | 0                           | 0                   |                                         |
| 145       | 1235           |                      | 132               | kW            | 0        | 0          | 0                  | 0                                                | 0                 | 0                | 0              | 0         | 0                           | U                   |                                         |
| 144       | 1259           | Derawar Mora         | 122               | kWh           | 58820    | 11133      | 229                | 1674                                             | 5057              | 3915             | 0              | 0         | 80827                       |                     |                                         |
| 144       | 1220           |                      | 132               | kW            | 15799    | 3081       | 70                 | 204                                              | 924               | 738              | 0              | 0         | 17697                       | 0                   | U                                       |
| 145       | 1250           | Derawar Moro         | 127               | kWh           | 24892    | 2323       | 0                  | 779                                              | 1341              | 241              | 0              | 0         | 29576                       |                     | 0                                       |
| 145       | 1222           | Derawar More         | 1.52              | kW            | 5683     | 848        | 0                  | 95                                               | 245               | 49               | 0              | 0         | 5709                        |                     | . 0                                     |
| 146       | 1224           | Donga Bonga          | 137               | kWh           | 0        | 0          | 0                  | 0                                                | 0                 | 0                | 0              | • 0       | 0                           | 0                   | 0                                       |
|           | 1224           | Doliga boliga        | 152               | kW            | 0        | 0          | 0                  | 0                                                | 0                 | 0                | 0              | 0         | 0                           |                     |                                         |
| 147       | 1347           | Donga Bonga          | 132               | kWh           | 57063    | 6722       | 5                  | 1038                                             | 5961              | 94               | 0              | 0         | 70883                       | 0                   | 0                                       |
|           |                |                      | ļ                 | kW            | 12408    | 1860       | 2                  | 126                                              | 1087              | 17               | 0              | <u></u> o | 13473                       | ļ                   | <u> </u>                                |
| 148       | 1343           | Donga Bonga          | 132               | kWh -         | 21839    | 2293       | 0                  | 556                                              | 3351              | 3120             | 0              | 0         | 31159                       | 0                   | 0                                       |
|           |                |                      |                   | kW            | 5698     | 722        | 0                  | 68                                               | 611               | 606              | 0              | - 0       | 6372                        |                     |                                         |
| 149       | 1223           | Gaggo                | 132               | kWh           | 0        | · 0        | 0                  | 0                                                | 0                 | 0                | 0              | 0         | 0                           | 0                   | С                                       |

|          | Nomoer           | The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s | -kV   | Unit | Domestic | Commercial | Public   | Sintall  | M&L        | rane           |        | Traction | Total of<br>Grid | Power      | Power   |
|----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|----------|------------|----------|----------|------------|----------------|--------|----------|------------------|------------|---------|
| _        | 15.17 1.519 1.10 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |      |          |            | Lighting | industry | Industries | Private        | Public |          | Station.         | Factor (%) | (Mivar) |
|          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | kW   | 0        | 0          | 0        | 0        | 0          | 0              | 0      | 0        | 0                |            |         |
| 150      | 1337             | Gaggo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 132   | kWh  | 18677    | 1268       | 0        | 513      | 736        | 18989          | 0      | 0        | 40182            |            | 0       |
|          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | kW   | 8122     | 331        | 0        | 62       | 133        | 3906           | 0      | 0        | 10415            | U          | U       |
| 151      | 1338             | Gaggo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 132   | kWh  | 32747    | 1450       | 0        | 947      | 14193      | 18041          | 0      | 0        | 67377            |            | 0       |
|          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | kW   | 7476     | 331        | 0        | 115      | 2588       | 3602           | 0      | 0        | 12268            |            | 0       |
| 52       | 1339             | Gaggo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 132   | kWh  | 37745    | 7428       | 6        | 3546     | 11359      | 21062          | 0      | 0        | 81146            | 0          |         |
|          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | kW   | 10446    | 3230       | 2        | 432      | 2071       | 4312           | 0      | 0        | 16872            | U          | 0       |
| 53       | 1340             | Gaggo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 132   | kWh  | 18039    | 1640       | 0        | 1199     | 13254      | 13385          | 0      | 0        | 47517            | 0          | 0       |
|          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | kW   | 5491     | 535        | 0        | 146      | 2421       | 2786           | · 0    | 0        | 9232             |            |         |
| 54       | 1341             | Gageo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 132   | kWh  | 12266    | 1386       | 0        | 902      | 7257       | 11347          | 0      | 0        | 33158            |            | 0       |
|          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | kW   | 5092     | 633        | 0        | 110      | 1323       | 2401           | 0      | 0        | 7839             | U          | U       |
| 55       | 1227             | Kassowal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 132   | kWh  | 0        | 0          | 0        | 0        | 0          | 0 <sup>°</sup> | 0      | 0        | 0                | 0          |         |
|          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | kW   | 0        | 0          | 0        | 0        | 0          | 0              | 0      | 0        | 0                | U.         | U       |
| 56       | 1347             | Kassowal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 132   | kWh  | 60578    | 9424       | 0        | 2686     | 6389       | 18141          | 0      | 0        | 97218            | 0          |         |
|          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       | kW   | 14185    | 2265       | 0        | 327      | 1162       | 3805           | 0      | 0        | 18678            | U          | . 0     |
| 57       | 1234             | Khanewal-II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 132   | kWh  | 0        | C          | 0        | 0        | 0          | 0              | 0      | 0        | 0                | 0          |         |
|          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.52  | kW   | 0        | 0          | · 0      | 0        | 0          | 0              | 0      | 0        | 0                | U .        | 0       |
| 58       | 1357             | Khanowal-II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 132   | kWh  | 89212    | 8551       | 29       | 4054     | 25407      | 41705          | 0.     | 0.       | 168958           |            | -       |
|          | 1357             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 152   | kW   | 17711    | 3124       | 9        | 494      | 4635       | 8623           | 0      | <u>0</u> | 29255            | U          | . U     |
| 50       | 1778             | Khannur Barra Sher                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 122   | kWh  | 0        | 0          | 0        | 0        | 0          | 0              | 0      | Ó.       | 0                |            |         |
|          | 1220             | Kilanbai pagga sher                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 152   | kW   | 0        | 0          | 0        | 0        | 0          | 0              | 0      | 0        | 0                | U          | 0       |
| 60       | 1348             | Khannur Bagga Sher                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 127   | kWh  | 0        | 547        | 0        | 0        | 80832      | 0              | 0      | 0        | 81380            |            |         |
|          | 1340             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 152   | kW   | D        | 167        | 0        | 0 -      | 14761      | · 0            | 0      | 0        | 13173            | U          | 0       |
| 61       | 1725             | Khichi Wala                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 127   | kWh  | 0        | 0          | 0        | 0        | 0          | 0              | 0      | 0        | 0                |            | ~       |
| <u> </u> |                  | NINGIN VV GIG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.1.2 | kW   | 0        | 0          | 0        | 0        | 0          | 0              | 0      | 0        | 0                | U .        | U       |
|          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |      |          |            |          |          |            |                |        |          |                  |            | 01      |
|          |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |      |          |            |          |          |            |                |        |          |                  |            |         |
|          | •                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |      |          |            |          |          |            |                |        |          |                  |            |         |

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| 5r<br>No. | Grid<br>Number | Name of Grid Station                  | kV       | Únit        | Domestic | Commercial | Public<br>Lighting | Small<br>Industry | M&L<br>Industries | Tube<br>Private | vell<br>Public | Traction | Total of<br>Grid<br>Station | Power<br>Factor (%) | Reactive<br>Power<br>(Mivar) |
|-----------|----------------|---------------------------------------|----------|-------------|----------|------------|--------------------|-------------------|-------------------|-----------------|----------------|----------|-----------------------------|---------------------|------------------------------|
| 162       | 1344           | Khichi Wala                           | 132      | kWh         | 79006    | 7697       | 2                  | 2508              | 4384              | 2445            | 0              | 0        | 96041                       | 0                   | 0                            |
|           | ·              |                                       | ļ        | kW          | 14430    | 2008       | 0                  | 305               | 797               | 387             | 0              | 0        | 15554                       | <u> </u>            |                              |
| 163       | 1345           | Khichi Wala                           | 132      | kWh         | 71813    | 7652       | 31                 | 4448              | 10270             | 4501            | 0              | 0        | 98716                       | - 0                 | 0                            |
|           |                |                                       | <u> </u> | kW          | 10390    | 2329       | 9                  | 542               | 1872              | 900             |                | 0        | 19172                       |                     | <u> </u>                     |
| 164       | 1229           | Khottan Wala                          | 132      | kWh         | 0        | 0          |                    | 0                 | 0                 |                 | 0              | 0        | 0                           | 0                   | 0                            |
|           |                |                                       |          | kW          | 79522    | 7100       | 100                | 7744              | 3970              | 1292            | 0              | 0        | 09975                       | <u> </u>            |                              |
| 165       | 1349           | Khottan Wala                          | 132      | kwn         | 16679    | 1730       | 57                 | 943               | 706               | 271             | <u> </u>       | 0        | 17103                       | - 0                 | 0                            |
|           |                | · · · · · · · · · · · · · · · · · · · |          | KVV<br>LAMB | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           |                     |                              |
| 166       | 1222           | Kot Samaba                            | 132      | 614/        | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           | 0                   | 0                            |
|           |                |                                       |          | kWb         | 21798    | 2720       | 0                  | 1.464             | 1924              | 15912           | 0              | 0        | 43818                       |                     | 1                            |
| 167       | 1334           | Kot Samaba                            | 132      | kW          | 7963     | 1242       | 0                  | 178               | 348               | 3381            | 0              | 0        | 10921                       | 0                   | 0                            |
|           |                | <u></u>                               | 1        | kWb         | 38004    | 2956       | o                  | 729               | 38717             | 2693            | 0              | 0        | 83099                       | 1                   |                              |
| 168       | 1335           | Kot Samaba                            | 132      | kW          | 11196    | 1080       | 0                  | 89                | 7064              | 590             | 0              | .0       | 17935                       | 0                   | O                            |
|           |                |                                       | :        | kWh         | 72323    | 26139      | 247                | 3749              | 13521             | 4951            | 0              | 0        | 120930                      |                     |                              |
| 169       | 1336           | Kot Samaba                            | 132      | kW          | 18347    | 6282       | . 75               | 457               | 2463              | 1059            | 0              | 0        | 25425                       | 0                   | 0                            |
|           |                |                                       | 122      | kWh         | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           |                     |                              |
| 1/0       | 1240           | Layyah-II                             | 132      | kW          | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           |                     | U                            |
|           | 4074           |                                       | 177      | kWh         | 44539    | 2615       | 3                  | 1369              | 1771              | 10656           | 0              | 0        | 60952                       |                     |                              |
| 1/1       | 1371           | гаууал-п                              | 152      | kW          | 10429    | 1038       | 1                  | 167               | 324               | 2245            | 0              | 0        | 11770                       |                     | U U                          |
| 172       | 1277           | lawah-ll                              | 132      | kWh         | 56873    | 11936      | 474                | 1482              | 10773             | 702             | 0              | 0        | 82239                       | :<br>               |                              |
| 1/2       |                | Layyan-n                              | 152      | kW          | 16231    | 3759       | 144                | 180               | 1967              | 140             | 0              | 0        | 19110                       |                     |                              |
| 173       | 1373           | lavvab-ll                             | 132      | kWh         | 4076     | 184        | 0                  | 91                | 42                | 191             | 0              | 0        | 4583                        | 0                   | 0                            |
|           |                |                                       | ļ        | kW          | 1128     | 73         | 0                  | 11                | 7                 | 42              | 0              | 0        | 1036                        |                     |                              |
| 174       | 1220           | Lodhran-II                            | 132      | kWh         | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           | 0                   | 0                            |
|           | •              |                                       |          |             |          |            |                    |                   |                   |                 |                |          |                             |                     | 5                            |
|           |                |                                       |          |             |          | <br>       |                    |                   |                   |                 |                |          |                             |                     |                              |

|        | R Name of Grid Station | kv                  | Unit | Doméstic | Commercial | Public<br>Lighting | Small,<br>Industry | M&L<br>Industries | Private | Public | Traction | Total of<br>Grid<br>Station | Power<br>Factor (%) | Reactive<br>Power<br>(Mvar) |
|--------|------------------------|---------------------|------|----------|------------|--------------------|--------------------|-------------------|---------|--------|----------|-----------------------------|---------------------|-----------------------------|
|        |                        |                     | kW   | 0        | 0          | 0                  | 0                  | 0                 | 0       | 0      | 0        | 0                           |                     |                             |
| 1221   | Lodbran-II             | 127                 | kWh  | 19227    | 1040       | 0                  | 2165               | 4297              | 12897   | .0     | 0        | 39627                       | İ                   |                             |
| 5 1551 | Looman-n               | 152                 | kW   | 5164     | 380        | 0                  | 264                | 782               | 2651    | 0      | 0        | 7697                        | 0                   | . 0                         |
| 6 1332 | Lodbran-II             | 132                 | kWh  | 65050    | 11349      | 143                | 3464               | 7706              | 32892   | 0      | 0        | 120604                      |                     |                             |
| 1552   |                        |                     | kW   | 20485    | 3839       | 44                 | 422                | 1406              | 7012    | 0      | 0        | 26996                       | 0.                  | . 0                         |
| 7 1218 | Machiwal               | 132                 | kWh  | 0        | 0          | 0                  | 0                  | 0                 | 0       | 0      | 0        | 0.                          |                     |                             |
|        |                        |                     | kW   | 0        | 0          | - 0                | 0                  | 0                 | 0       | 0      | 0        | 0                           |                     | 0                           |
| 8 1325 | Machiwal               | 132                 | kWh  | 23642    | 346        | 0                  | 1038               | 1147              | 16794   | 0      | 0        | 42966                       | 0                   |                             |
|        |                        |                     | kW   | 17992    | 243        | 0                  | 126                | 208               | 3516    | 0      | 0        | 19086                       |                     | · · · · ·                   |
| 9 1326 | Machiwal               | 132                 | kWh  | 14109    | 1350       | 0                  | 575                | 7911              | 4578    | 0      | 0        | 28523                       | 0                   | 0                           |
|        |                        |                     | kW   | 3221     | 308        | 0                  | 70                 | 1446              | 914     | · 0    | 0        | 5186                        | U                   | . U                         |
| 0 1327 | Machiwal               | 132                 | kWh  | 34888    | 4872       | 0                  | 2292               | 1824              | 31735   | 0      | 0        | 75610                       |                     |                             |
|        |                        |                     | kW   | 7965     | 1309       | 0                  | 279                | 330               | 6308    | 0      | 0        | 13923                       | U U                 | U                           |
| 1 1212 | Maggi More             | 132                 | kWh  | 0        | 0          | 0 ·                | 0                  | .0, .             | 0       | 0      | 0        | 0                           | 0                   |                             |
|        |                        |                     | kW   | 0        | 0          | 0                  | 0                  | 0                 | 0       | 0      | 0        | 0                           |                     | . 0                         |
| 2 1313 | Maggi More             | 132                 | kWh  | 24661    | 2788       | 0                  | 802                | 797               | 581     | 0      | 0        | 29629                       | 0                   |                             |
|        |                        |                     | kW   | 5238     | 771        | 0                  | . 98               | 144               | 124     | 0      | 0        | 5163                        | U                   |                             |
| 3 1314 | Maggi More             | 132 -               | kWh  | 10776    | 756        | 0                  | 203                | 763               | 160     | 0      | 0        | 12657                       | 0                   | 0                           |
|        |                        | ļ                   | kW   | 2894     | 246        | 0                  | 25                 | 139               | 35      | 0      | 0        | 2861                        | 0                   |                             |
| 4 1219 | Makhdoom Jahanian      | 132                 | kWh  | 0 .      | 0          | 0                  | 0                  | 0                 | · 0.    | . 0    | 0        | <sup>2</sup> 0 4.5          | n                   | 0                           |
|        |                        |                     | kW   | 0        | 0          | Ó                  | 0.                 | 0                 | 0       | 0      | 0.       | 0                           |                     | U                           |
| 5 1328 | Makhdoom Jahanian      | 132                 | kWh  | 42113    | 6317       | 496                | 1204               | 1396              | 11530   | 0      | 0        | 63056                       | 0                   | Ω                           |
|        |                        | ļ                   | kW   | 12019    | 2308       | 151                | 147                | 253               | 2417    | 0      | 0        | 14423                       |                     |                             |
| 6 1329 | Makhdoom Jahanian      | 132                 | kWh  | 2140     | 549        | 0                  | 343                | 234               | 5871    | 0      | 0        | 9137                        | n                   | 0                           |
|        |                        |                     | kW   | 1150     | 456        | 0                  | 42                 | 42                | 1279    | 0      | 0        | 2518                        |                     | •                           |
|        |                        | -<br>- * *<br>- * * |      |          |            |                    |                    |                   |         |        |          |                             |                     | 87                          |

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| Sr<br>No. | Grid<br>Number | Name of Grid Station  | k۷  | Unit | Domestic | Commercial | Public<br>Lighting | Small<br>Ińdustry | M&L<br>Industries | Tube<br>Private | well<br>Public | Traction | Total of<br>Grid<br>Station | Power<br>Factor (%) | Reactive-<br>Power<br>(Mivar) |
|-----------|----------------|-----------------------|-----|------|----------|------------|--------------------|-------------------|-------------------|-----------------|----------------|----------|-----------------------------|---------------------|-------------------------------|
| 187       | 1330           | Makhdoom Jahanian     | 132 | kWh  | 25553    | 1226       | 0                  | 2976              | 4432              | 25046           | 0              | 0        | 59233                       | 0                   | 0                             |
|           |                |                       |     | kW   | 6863     | 448        | 0                  | 362               | 809               | 5148            | 0              | 0        | 11326                       |                     |                               |
| 188       | 1739           | Muhammad Pur Dewan    | 132 | kWh  | 0        | 0          | 0                  | 0                 | 0                 | 0               | O              | 0        | 0                           |                     | o Ĩ                           |
| 100       | 1235           | Munanmad rur Dewan    | 152 | kW   | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           |                     | 0                             |
| 190       | 1250           | Muhammad Rus Dewan    | 122 | kWh  | 16779    | 1561       | 0                  | 459               | 1712              | 1399            | 0              | 0        | 21909                       |                     | 0                             |
| 103       | 1209           | Muhammau Fur Dewan    | 152 | kW   | 4788     | 460        | 0                  | 56                | 313               | 307             | 0              | 0        | 4895                        |                     | U                             |
| 100       | 1270           | Muhammad Bur Dowan    | 120 | kWh  | 23055    | 4410       | 0                  | 649               | 2967              | 6533            | 0              | 0        | 37614                       |                     | 0                             |
| 190       | 1570           | Multaninad Pur Dewart | 152 | kW   | 7260     | 1611       | 0                  | 79                | 542               | 1432            | 0              | 0        | 8840                        |                     | 0                             |
| 101       | 1227           | Newer Ker             | 122 | kWh  | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           |                     |                               |
| 191.      | 1257           | Nawan Kut             | 152 | kW   | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | 0        | C .                         |                     | U                             |
| 100       | 1264           | NI 1/_6               | 122 | kWh  | 51620    | 12564      | 25                 | 2521              | 3474              | 6268            | 0.             | 0        | 76471                       |                     |                               |
| 192       | 1364           | Nawan Kot             | 132 | kW   | 13095    | 3019       | 8                  | 307               | 630               | 1341            | 0              | 0        | 16205                       | 0                   | 0                             |
| 402       | 1265           |                       | 122 | kWh  | 37623    | 7313       | 0                  | 1439              | 11329             | 1728            | 0              | 0        | 59431                       |                     | _                             |
| 193       | 1365           | Nawan Kot             | 132 | kW.  | 10737    | 2904       | 0                  | 175               | 2068              | 379             | 0              | υ        | 13849                       | 0                   | 0                             |
|           | 10.00          |                       |     | kWh  | 21645    | 12051      | O                  | 762               | 7398              | 1757            | 0              | 0        | 43612                       |                     |                               |
| 194       | 1360           | Nawan Kot             | 132 | • kW | 5648     | 3669       | 0                  | 93                | 1350              | 385             | 0              | 0        | 9600                        | 0                   | 0                             |
| 105       | 4004           |                       | 122 | kWh  | 0        | . 0        | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           |                     |                               |
| 192       | 1231           | P.G.E.H.S             | 132 | kW   | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | · 0      | 0                           | 0                   | 0                             |
|           |                |                       |     | kWh  | . 447.   | 481        | 0                  | 72                | 21403             | 147             | 0              | 0        | 22550                       |                     |                               |
| 196.      | 1352           | P.G.E.H.S             | 132 | kW - | 151      | 152        | 0                  | 9                 | 3909              | 30              | 0              | 0        | 3634                        | 0.                  | 0                             |
| 107       | 4252           |                       | 122 | kWh  | 61460    | 10335      | 0                  | 881               | 5399              | 1915            | 0              | 0        | 79991                       |                     |                               |
| 191       | 1323           | P.G.E.H.3             | 132 | kW   | 13690    | 2551       | 0                  | 107               | 985               | 409             | 0              | 0        | 15342                       | 0                   | ° 📢                           |
|           |                |                       |     | kWh  | 0        | 0.         | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           |                     | Y                             |
| 198       | 1236           | Pak Pattan-II         | 132 | kW   | 0        | 0          | 0                  | 0                 | 0                 | 0               | 0              | 0        | 0                           | 0                   | 0                             |
| 199       | 1360           | Pak Pattan-II         | 132 | kWh  | 38880    | 5167       | 122                | 1442              | 10335             | 12148           | 0              | 0        | 68094                       | 0                   | 0                             |

| Sr         | Grid   | Name of Grid Station                  | ƙV   | Unit | Domestic | Commercial | Public   | Small    | M&L        | Tuþe    | well   | Traction | Total of<br>Grid | Power      | Reac |
|------------|--------|---------------------------------------|------|------|----------|------------|----------|----------|------------|---------|--------|----------|------------------|------------|------|
| <b>NO.</b> | Number |                                       |      |      |          |            | Lighting | Industry | Industries | Private | Public |          | Station          | Factor (%) | (M   |
|            |        |                                       |      | kW   | 10760    | 1475       | 37       | 176      | 1889       | 2577    | 0      | 0        | 13875            |            |      |
| 200        | 1261   | Pak Pattan II                         | 127  | kWh  | 20861    | 3082       | 30       | 868      | 2142       | 561     | 0      | 0        | 27544            | _          |      |
| 200        | 1301   |                                       | 1.52 | kW   | 6350     | 1005       | 9        | 106      | 389        | 117     | 0      | 0        | 6479             | 0          |      |
| 201        | 1262   | Bak Pattan-11                         | 122  | kWh  | 12406    | 884        | 0        | 368      | 1047       | 17142   | 0      | 0        | 31846            |            |      |
| 201        | 1502   |                                       | 132  | kW   | 4721     | 323        | 0        | 45       | 189        | 3622    | 0      | 0        | 7359             | U.,        |      |
| 202        | 1363   | Pak Pattanali                         | 137  | kWh  | 16630    | 2265       | 0        | 306      | 2724       | 1871    | C      | 0        | 23795            | 0          |      |
| 202        | 1303   | Fak Fattan-n                          | 152  | kW   | 6328     | 1217       | 0        | 37       | 497        | 410     | 0      | 0        | 6940             | · 0        |      |
| 202        | 1720   | Dir Ioggi                             | 122  | kWh  | 0        | 0          | 0        | 0        | 0          | 0       | 0      | 0        | 0                |            |      |
| 203        | 1230   | rii Jaggi                             | 152  | kW   | 0        | 0          | 0        | 0        | 0          | 0       | 0      | 0        | 0                | 0          |      |
| 204        | 1367   | Pir loggi                             | 122  | kWh  | 41307    | 4583       | -7       | 1438     | 2587       | 1220    | 0      | 0        | 51141            | <u>^</u>   |      |
| 204        | 1307   |                                       | 152  | k₩   | 13008    | 1495       | 2        | 175      | 471        | 241     | 0      | 0        | 13148            | 0          |      |
| 205        | 1269   | Dir laggi                             | 122  | kWh  | 25323    | 2029       | 0        | 1032     | 533        | 643     | 0      | 0        | 29561            | 0          |      |
| 205        | 1308   | FI: J0551                             | 132  | kW   | 4535     | 441        | 0        | 126      | 97         | 141     | 0      | 0        | 4467             | U          |      |
| 206        | 1214   | Oadirour Rawan                        | 122  | kWh  | 0        | O          | 0        | 0        | 0          | 0       | 0      | 0        | O                |            |      |
| 200        | 1214   |                                       | 152  | kW   | 0        | 0          | 0        | 0        | 0          | 0       | 0      | С        | 0                | . 0 *      |      |
| 207        | 1317   | Ordinnur Powon                        | 127  | kWh  | 39307    | 5991       | 106      | 1788     | 2508       | 5199    | 0      | 0        | 54899            |            |      |
| 207        | 1317   | Qadirput Nawen                        | 152  | kW   | 7638     | 1520       | 32       | 218      | 457        | 1057    | 0      | 0        | 8990             | U .        |      |
| 200        | 1219   | Ordirour Pawan                        | 122  | kWh  | 8205     | 300        | 0        | 383      | 837        | 2748    | 0      | 0        | 12473            |            |      |
| 208        | 1318   |                                       | 152  | kW   | 3406     | 78         | 0        | 47       | 150        | 569     | 0      | 0        | 3683             | U.         |      |
| 200        | 1310   | Oadirour Pawan                        | 122  | kWh  | 80066    | 11626      | 4        | 5042     | 84302      | 19510   | 0      | 0        | 200550           | 0          |      |
| 203.       | 1313   | Qadiipur Nawan                        |      | kW   | 27081    | 3661       | 1.       | 614      | 15392      | 3984    | 0      | 0        | 43911            | - 0        |      |
| 210        | 1217   | R Y Khan-III                          | 132  | kWh  | 0        | 0          | 0        | 0        | 0          | 0       | 0      | 0        | 0                | 0          |      |
| 210        | 1217   | · · · · · · · · · · · · · · · · · · · | 152  | kW   | 0        | 0          | . 0      | 0        | 0          | 0       | 0      | 0        | 0                | U          |      |
| 211        | 1324   | R Y Khan-III                          | 132  | kWh  | 11.0975  | 23016      | 71       | 3546     | 5545       | 4710    | 0      | 0        | 147863           |            |      |
| 211        | 1524   |                                       | 152  | kW   | 23033    | 7507       | 22       | 432      | 1007       | 973     | 0      | 0        | 28143            |            |      |

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|-----------|----------------|----------------------|-----|-----------|----------------|---------------|--------------------|-------------------|-------------------|------------------|----------------|----------|------------------------------------------|---------------------|------------------------------|
| -         | 4FPC           | 0                    |     |           |                |               |                    |                   |                   |                  |                |          | 10-10-10-10-10-10-10-10-10-10-10-10-10-1 |                     |                              |
| Sr<br>No. | Grid<br>Number | Name of Grid Station | kv  | Unit      | Domestic       | Commercial    | Public<br>Lighting | Small<br>Industry | M&L<br>Industries | Tuber<br>Private | vell<br>Public | Traction | Total of<br>Grid<br>Station              | Power<br>Factor (%) | Reactive-<br>Power<br>(Mvar) |
| 212       | 1241           | Rahim Yar Khan Indus | 132 | kWh<br>kW | 0              | 0             | 0_<br>0            | 0<br>0            | 175200<br>32000   | 0<br>0           | 0              | 0        | 175200<br>32000                          | 0                   | 0                            |
| 213       | 1215           | Sanawan              | 132 | kWh<br>kW | 0<br>0         | 0             | 0                  | 0                 | 0                 | 0                | 0              | 0        | 0                                        | 0                   | 0                            |
| 214       | 1320           | Sanawan              | 132 | kWh<br>kW | 57338<br>13091 | 10675<br>3899 | 35<br>11           | 3245<br>395       | 7826<br>1140      | 1836<br>364      | 0              | 0        | 80954<br>15535                           | 0                   | 0                            |
| 215       | 1321           | Sanawan              | 132 | kWh<br>kW | 48260<br>10250 | 8197<br>1970  | 482<br>147         | 8156<br>993       | 6437<br>1175      | 12135<br>2560    | 0<br>0         | 0        | 83667<br>14302                           | 0                   | 0                            |
| 216       | 12.30          | Sanjar Pur           | 132 | kWh<br>kW | 0              | 0             | 0                  | 0                 | 0                 | 0                | 0              | 0        | 0                                        | 0                   | 0                            |
| 217       | 1350           | Sanjar Pur           | 132 | kWh<br>kW | 98760<br>20975 | 17790<br>4642 | 50<br>15           | 4001<br>437       | 21338<br>3891     | 10906<br>2296    | 0              | 0        | 152845<br>27977                          | 0.                  | 0                            |
| 218       | 1351           | Sanjar Pur           | 132 | kWh<br>kW | 5631<br>3214   | 617<br>512    | 0                  | 318<br>39         | 0                 | 5682<br>1187     | 0              | 0        | 12249<br>4136                            | 0                   | 0                            |
| 219       | 1213           | Shah Jamal           | 132 | kWh       | 0<br>0         | 0             | 0                  | 0                 | 0                 | 0                | 0              | 0        | 0                                        | 0                   | 0                            |
| 220       | 1315           | Shah Jamal           | 132 | kWh       | 44942          | 6565<br>2398  | 0                  | 2492              | 6169<br>899       | 1471             | 0              | 0        | 61640                                    | 0                   | · · 0                        |
| 221       | 1316           | Shah Jamal           | 132 | kWh       | 31378<br>8955  | 6649<br>2760  | 0                  | 8150<br>992       | 1372              | 10124            | 0              | 0        | 57672                                    | 0                   | 0                            |
| 222       | 1233           | Suraj Miani          | 132 | kWh<br>kW | 0              | 0             | 0                  | 0                 | 0                 | 0                | 0              | 0        | 0                                        | 0                   | 0                            |
| 223       | 1355           | Suraj Miani          | 132 | kWh<br>kW | 42550<br>7772  | 39874<br>7916 | 1143<br>348        | 3277<br>399       | 2791              | 0                | 0              | 0        | 89635<br>14741                           | 0                   | 0                            |
| 224       | 1356           | Suraj Miani          | 132 | kWh       | 16856          | 2007          | 0                  | 2540              | 49746             | 4985             | 0              | 0        | 76134                                    | 0                   | 0                            |

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| -MEPCO                                                                                                                                                                                                                                             |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Sr Grid Name of Grid Station KV Unit Domestic Commercial Public Small MgL Tubewell Traction Total of Power Reactive   No. Number Name of Grid Station KV Unit Domestic Commercial Eighting Industry Industry Traction Traction Factor (%) Reactive |   |
| kw     3018     353     0     309     9085     1082     0     0     12017                                                                                                                                                                          | ] |
|                                                                                                                                                                                                                                                    |   |
|                                                                                                                                                                                                                                                    |   |
|                                                                                                                                                                                                                                                    |   |
|                                                                                                                                                                                                                                                    |   |
|                                                                                                                                                                                                                                                    |   |
|                                                                                                                                                                                                                                                    |   |



LEGEND EXISTING PROPOSED GRIDS RAJAT О 220KV 132KV SSKV SORV HYDEL P/STN SORV HYDEL P/STN 220KV HYDEL P/STN 220KV HYDEL P/STN 220KV HYDEL P/STN OKH SA NUMAN PUEB UCH S BELA Q QURESHIA RAJK 0 Y.KHAN Ø N. T. D. C PLANNING POWER PLANNING POWER ELECTRICAL NETWORK (Geographical) EXPANSION PLAN UPTO 202 ORG# GMPP/Geog/M017 Ġ. M IAMAL AN PUR 200 SEE ORYKHA

HANS RT. CHAN-

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LINES GRIDS LINES

**MNN** OC

-MEPCO

#### Disclaimer

CPPA-G centrally consolidated the data from all DISCOs. The data for this report has been provided by MEPCO. So, the responsibility of accuracy of data is on MEPCO. It is also important to mention here that CPPA-G only facilitated in the preparation of this forecast as it is the prime responsibility of the DISCOs to prepare their own forecast and the DISCO prepared the same.

Further, a transition plan has been prepared by CPPA-G to help build the overall capacity of the DISCOs in-terms of people, processes and technology so that DISCOs start doing this forecast without any assistance.





## **ANNEXURE-8**

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# YEAR WISE STG PROJECT LIST

# **STG PROJECT LIST BEST CASE**

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## LIST OF PROJECT S T/LINES & GRID STATIONS

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## Financial Year 2020-21

|             | Sr. No. | Proposed Substation | Туре | Transformer<br>Capacity<br>(MVA) | Proposed<br>Fiscal Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est.<br>Total<br>Cost<br>(MRs.<br>) |
|-------------|---------|---------------------|------|----------------------------------|-------------------------|---------------|---------------|-------------------------------------|
|             | 1       | RYK 3               | New  | 2X40                             | 2020-21                 | 338           | 28            | 366                                 |
|             | 2       | Arifwala-2          | New  | 2x40                             | 2020-21                 | 338           | 28            | 366                                 |
|             | 3       | Rawan Road          | New  | 2x40                             | 2020-21                 | 338           | 28            | 366                                 |
|             | 4       | PAKPATTAN-2         | New  | 2x40                             | 2020-21                 | 338           | 28            | 366                                 |
|             | 5       | GAGOO               | New  | 2x40                             | 2020-21                 | 338           | 28            | 366                                 |
|             | 6       | Dajal               | Conv | 1x13                             | 2020-21                 | 23            | 103           | 126                                 |
|             | 7       | SurajMiani          | Ext  | 26                               | 2020-21                 | 56            | 5             | 61                                  |
|             | 8       | Sanjar Pur          | Ext  | 26                               | 2020-21                 | 56            | 5             | 61                                  |
| -           | 9       | Sahiwal-III         | Ext  | 26                               | 2020-21                 | 56            | 5             | 61                                  |
|             | 10      | Bahawalnagar-2      | Ext  | 26                               | 2020-21                 | 56            | 5             | 61                                  |
|             | 11      | Burewala Old        | Ext  | 26                               | 2020-21                 | 92            | 5             | 97                                  |
|             | 12      | JAIL ROAD           | Ext  | 26                               | 2020-21                 | 56            | 5             | 61                                  |
|             | 13      | SAHUKA              | Ext  | 40                               | 2020-21                 | 110           | 6             | 116                                 |
|             | 14      | HARAPPA             | Ext  | 40                               | 2020-21                 | 110           | 6             | 116                                 |
|             | 15      | KHAN BELA           | Ext  | 26                               | 2020-21                 | 56            | 5             | 61                                  |
|             | 16      | M.P.PAHORAN         | Ext  | 26                               | 2020-21                 | 56            | 5             | 61                                  |
|             | 17      | Jatoi               | Aug  | 40                               | 2020-21                 | 90            | 0             | 90                                  |
|             | 18      | Jatoi               | Aug  | 40                               | 2020-21                 | 90            | 0             | 90                                  |
| -<br>-<br>- | 19      | Kabirwala           | Aug  | 40                               | 2020-21                 | 90            | 0             | 90                                  |
|             | 20      | Mailsi              | Aug  | 40                               | 2020-21                 | 90            | 0             | 90                                  |
|             | 21      | Sahiwal Old         | Aug  | 40                               | 2020-21                 | 90            | 0             | 90                                  |

| -  | 7   | 132KV Arif Wala   | 2020-21 | 4.7 | - | 4.7 |
|----|-----|-------------------|---------|-----|---|-----|
| a, | . 8 | 132KV Burewala    | 2020-21 | 4.7 | - | 4.7 |
|    | 9   | 132KV Khanewal    | 2020-21 | 4.7 | - | 4.7 |
|    | 10  | 132KV Qadirabad   | 2020-21 | 4.7 | - | 4.7 |
|    | 11  | 132KV Sahiwal New | 2020-21 | 4.7 | - | 4.7 |

Sub Total (C)

51.7 (MRs.)

## CONVERSION OF ISO BAYS INTO LINE BAYS

| Sr.<br>No. | Name of Grid Station         | Proposed Year | LCC (MRs.) | FCC (MRs.) | Est. Total<br>Cost (MRs.) |
|------------|------------------------------|---------------|------------|------------|---------------------------|
| 1          | 132KV Jalal Pur Pir<br>Wala  | 2020-21       | 9.7        | -<br>-     | 9.7                       |
| 2          | 132KV Mahra Khas             | 2020-21       | 9.7        |            | 9.7                       |
| 3          | 132KV Jattoi                 | 2020-21       | 9.7        | _          | 9.7                       |
| 4          | 132KV Jattoi                 | 2020-21       | 9.7        | _          | 9.7                       |
| 5          | 132KV K.P.Sadat              | 2020-21       | 9.7        |            | 9.7                       |
| 6          | 132KV Jamal Din Wali         | 2020-21       | 9.7        |            | 9.7                       |
| 7          | 132KV Mian Wali<br>Qurashain | 2020-21       | 9.7        |            | 9.7                       |
| 8          | 66KV Uch Sharif              | 2020-21       | 9.7        |            | 9.7                       |
| 9          | Banga Hayat                  | 2020-21       | 9.7        |            | 9.7                       |
| 10         | Sahuka                       | 2020-21       | 9.7        | -          | 9.7                       |
| 11         | Head Sidnai                  | 2020-21       | 9.7        | -          | 9.7                       |
| 12         | Hoota                        | 2020-21       | 9.7        | 1          | 9.7                       |
| 13         | Makhdoom Pur                 | 2020-21       | 9.7        |            | 9.7                       |
| 14         | Noor Pur                     | 2020-21       | 9.7        | -          | 9.7                       |
| 15         | Pak Pattan                   | 2020-21       | 9.7        |            | 9.7                       |

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| 16 | Mailsi       | 2020-21 | 9.7 | - | 9.7 |
|----|--------------|---------|-----|---|-----|
| 17 | Karam Pur    | 2020-21 | 9.7 | - | 9.7 |
| 18 | Dunya Pur    | 2020-21 | 9.7 | - | 9.7 |
| 19 | K.P Tamewali | 2020-21 | 9.7 | - | 9.7 |
| 20 | Chishtian    | 2020-21 | 9.7 | - | 9.7 |

| Sub Total (D) | 194 (MRs.) |
|---------------|------------|

#### EXTENSION OF 11KV CONTROL HOUSE BUILDING

| Sr.<br>No. | Name of<br>Grid<br>Station   | Remarks                                                                                        | Proposed<br>Year | LCC (MRs.) | FCC<br>(MRs.) | Est.<br>Total<br>Cost<br>(MRs.) |
|------------|------------------------------|------------------------------------------------------------------------------------------------|------------------|------------|---------------|---------------------------------|
| 1          | 132KV<br>Kabirwala           | Extension of 11KV switch room where T-3 Power Transformer panel board installed.               | 2020-21          | 2.2        | -             | 2.2                             |
| 2          | 132KV<br>Basti<br>Malook     | Extension of existing 11KV<br>switch room                                                      | 2020-21          | 2.2        | -             | 2.2                             |
| 3          | 132KV Kot<br>Addu            | Extension of existing 11KV control house building                                              | 2020-21          | 2.2        | -             | 2.2                             |
| 4          | 132KV<br>Ahmad Pur<br>East   | 11KV control room (T-4)                                                                        | 2020-21          | 2.2        | -             | 2.2                             |
| 5          | 132KV<br>Rahim Yar<br>Khan-I | 11KV control room (T-4)                                                                        | 2020-21          | 2.2        | -             | 2.2                             |
| 6          | 132KV<br>Pakpattan           | Extension required to<br>accommodate the Panel Board<br>on addition of 4 <sup>th</sup> PTF Bay | 2020-21          | 2.2        |               | 2.2                             |
| 7          | 132KV Arif<br>Wala           | Extension required to<br>accommodate the Panel Board<br>on addition of 4 <sup>th</sup> PTF Bay | 2020-21          | 2.2        | -             | 2.2                             |
| 8          | 132KV<br>Khanewal            | Extension required to accommodate the Panel Board on addition of 4 <sup>th</sup> PTF Bay       | 2020-21          | 2.2        | <u>-</u>      | 2.2                             |
| 9          | 132KV<br>Garah<br>More       | Extension required to accommodate the Panel Board on Augmentation of PTF.                      | 2020-21          | 2.2        | -             | 2.2                             |

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| . 10 | 132KV<br>Kacha Khu | Extension required to accommodate the Panel Board on Augmentation of PTF. | 2020-21 | 2.2 | _ | 2.2 |
|------|--------------------|---------------------------------------------------------------------------|---------|-----|---|-----|
| 11   | 132KV<br>Harappa   | Extension required to accommodate the Panel Board on Augmentation of PTF. | 2020-21 | 2,2 |   | 2.2 |

| Sub Total (E) | 24.2 (MRs.) |
|---------------|-------------|

## 132 KV T/LINES (NEW+RECONDUCTORING)

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| Sr.<br>No. | Name of T/Line                                                                                    | Length<br>(km) | Туре | Conductor                   | Proposed<br>Fiscal<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est.<br>Total<br>Cost<br>(MRs.) |
|------------|---------------------------------------------------------------------------------------------------|----------------|------|-----------------------------|----------------------------|---------------|---------------|---------------------------------|
| 1          | F/F RYK-3 (I/O of<br>R.Y.K-1 - Sadiqbad)                                                          | 5              | DC   | RAIL                        | 2020-21                    | 60            | 4             | 65                              |
| 2          | F/F 132 Arifwala-2<br>(I/O of Arifwala -<br>Qaboola T/L)                                          | 3              | DC   | RAIL                        | 2020-21                    | 47            | 4             | 51                              |
| 3          | F/F132kV Rawan<br>Road (I/O of Punjab<br>Housing - Man Kot)                                       | 4              | DC   | LYNX                        | 2020-21                    | 31            | 4             | 35                              |
| 4          | F/F 132KV Pak<br>Pattan-2 (Noorpur -<br>Pakpattan-2)                                              | 27             | DC   | Rail                        | 2020-21                    | 288           | 17            | 305                             |
| 5          | F/F 132KV Gaggo<br>(In/Out Arrangement<br>of Arifwala -<br>Burewala T/L at 132<br>KV Gagoo Mandi) | 0.5            | DC   | LYNX                        | 2020-21                    | 10            |               | 10                              |
| 6          | F/F 132 KV Dajal (132<br>KV Jampur - 132 KV<br>Dajal))                                            | 20             | SDT  | LYNX                        | 2020-21                    | 114           | 17            | 131                             |
| 7          | 132 KV T/L<br>Muzaffargarh -<br>Khangarh                                                          | 19             | SC   | Reconductoring<br>with RAIL | 2020-21                    | 119           | 4             | 123                             |
| 8          | 132 KV T/L Khangarh<br>- Mehrakhas                                                                | 24             | SC   | Reconductoring<br>with RAIL | 2020-21                    | 131           | 9             | 139                             |
| 9          | 132 KV T/L<br>Mehrakhas -<br>Dammarwala                                                           | 16             | SC   | Reconductoring<br>with RAIL | 2020-21                    | 92            | 4             | 96                              |
| 10         | 132KV 2nd circuit<br>Lodhran – Jalal Pur<br>Pir Wala                                              | 40             | SDT  | LYNX                        | 2020-21                    | 55            | -             | 55                              |

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| 11 | 132KV 2nd circuit<br>Basti Malook -<br>Shujabad                                                                                  | 22   | SDT | LYNX                        | 2020-21 | 29  |    |        |
|----|----------------------------------------------------------------------------------------------------------------------------------|------|-----|-----------------------------|---------|-----|----|--------|
| 12 | 132KV D/C<br>Transmission Line<br>from 220KV Lal<br>Sohanra – Baghdad-<br>ul-Jadid                                               | 12   | DC  | Rail                        | 2020-21 | 136 | 9  | 1      |
| 13 | 132KV G/S Shadan<br>Lund to 132KV G/S<br>Shah Sadar Din Din<br>CCT                                                               | 22   | SDT | Rail                        | 2020-21 | 173 | 9  | 1      |
| 14 | 132KV Transmission<br>Line from 500KV D.G<br>Khan - Shah Sadar<br>Din CCT                                                        | 43.9 | SDT | Rail                        | 2020-21 | 327 | 9  | 3      |
| 15 | 132 KV T/L Burewala<br>New - Sahuka                                                                                              | 20   | SDT | RAIL                        | 2020-21 | 291 | 17 | 3      |
| 16 | 132KV NGPS – Vehari<br>Road T/Line                                                                                               | 7    | SC  | Reconductoring<br>with HTLS | 2020-21 | 92  | -  | ,<br>C |
| 17 | 132KV New Multan -<br>Qasim Pur T/L                                                                                              | 18   | SC  | Reconductoring<br>with HTLS | 2020-21 | 271 | -  | 2      |
| 18 | 132KV Vehari Road -<br>Qasim Pur T/L                                                                                             | 3    | SC  | Reconductoring<br>with HTLS | 2020-21 | 52  | -  | 5      |
| 19 | 132KV Wapda Town<br>– Bosan Road T/L &<br>PGHS – Bosan Road<br>Transmission Line<br>(portion from<br>Wapda Town –<br>Bosan Road) | 6    | SC  | Reconductoring<br>with HTLS | 2020-21 | 99  |    | 9      |
| 20 | 132KV R.Y.Khan -<br>Sadiqabad CCT-II                                                                                             | 21   | SC  | Reconductoring<br>with Rail | 2020-21 | 291 | -  | 2!     |
| 21 | 132KV Jattoi —<br>K.P.Sadat T/Line                                                                                               | 34   | SC  | Reconductoring<br>with LYNX | 2020-21 | 222 | 17 | 2      |
| 22 | 132KV D/C KAPCO –<br>Kot Addu T/Line                                                                                             | 2    | SC  | Reconductoring<br>with HTLS | 2020-21 | 45  |    | 4      |
| 23 | 132KV D.G Khan 1st -<br>500KV D.G Khan G/S<br>CCT-1                                                                              | 21   | SC  | Reconductoring<br>with HTLS | 2020-21 | 293 |    | 2      |
| 24 | 132KV D.G Khan 1st -<br>500KV D.G Khan G/S<br>CCT-2                                                                              | 21   | SC  | Reconductoring<br>with HTLS | 2020-21 | 304 | -  | 31     |
| 25 | 132KV Rahim Yar<br>Khan-1 to Sadiqabad<br>CCT (from Tower                                                                        | 9.5  | SC  | Reconductoring<br>with RAIL | 2020-21 | 63  | 9  | 7      |

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| 26 | In/Out arrangement<br>of 132KV Guddu -<br>Kot Chutta T/Line at<br>132KV Grid Station<br>Jampur Dajal Road         | 0.5  | DC                                      | LYNX   | 2020-21 | 2   | - | 2   |          |
|----|-------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------|--------|---------|-----|---|-----|----------|
| 27 | In/Out arrangement<br>of 132KV Sakhi<br>Sarwar - Fort Manro<br>– Rakhni at 132KV<br>Grid Station Fort<br>Manro    | 0.5  | DC                                      | LYNX   | 2020-21 | 3   | - | 3 . | -        |
| 28 | In/Out arrangement<br>of 66KV Choubara -<br>T-off Nawan Kot -<br>Mankera CCT at<br>66KV Grid Station<br>Nawan Kot | 1    | DC                                      | Dog    | 2020-21 | 11  | - | 11  |          |
| 29 | 220/132KV Vehari –<br>Mailsi T/L                                                                                  | 65   | DC                                      | LYNX   | 2020-21 | 419 | 9 | 428 | C        |
| 30 | 132KV Jahanian-<br>Dunyapur T/L                                                                                   | 27   | SDT                                     | . LYNX | 2020-21 | 142 | 9 | 150 |          |
| 31 | 132KV Jahanian-<br>Chak 211/WB T/L                                                                                | 23   | SDT                                     | LYNX   | 2020-21 | 123 | 9 | 132 |          |
| 32 | 132KV Chak<br>211/WB-Mailsi T/L                                                                                   | 27   | SDT                                     | LYNX   | 2020-21 | 142 | 9 | 150 |          |
| 33 | 220/132KV Vehari-<br>132KV Burewala T/L                                                                           | 47   | SDT                                     | LYNX   | 2020-21 | 237 | 9 | 245 | -<br>  . |
| 34 | 132KV Mailsi-Kehror<br>Pacca T/L                                                                                  | 34.5 | 2 <sup>nd</sup><br>Circuit<br>Stringing | LYNX   | 2020-21 | 47  | - | 47  |          |
| 35 | In/Out arrangement<br>of 132KV Sahiwal Old<br>–Pak Pattan T-Off<br>Noorpur T/L at<br>132KV G/S Noorpur            | 1    | DC                                      | LYNX   | 2020-21 | 1   |   | 1   | C        |
| 36 | In/Out arrangement<br>of 132KV B/Nagar –<br>Noor Sar T-Off<br>Qabula T/L at 132KV<br>G/S B/Nagar                  | 1    | DC                                      | LYNX   | 2020-21 | 2   | - | 2   |          |

|          | ·····                                                                         |        |  |  |      | *      |  |
|----------|-------------------------------------------------------------------------------|--------|--|--|------|--------|--|
|          | Sub Tot                                                                       | al (F) |  |  | 4933 | (MRs.) |  |
|          |                                                                               |        |  |  |      |        |  |
| Grand To | Sub Total (F)     4933 (MRs.)       Grand Total (A+B+C+D+E+F)     8991 (MRs.) |        |  |  |      |        |  |
|          |                                                                               |        |  |  |      |        |  |
|          |                                                                               | · · ·  |  |  |      |        |  |



## LIST OF PROJECT S T/LINES & GRID STATIONS

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## Financial Year 2021-22

| Sr.<br>No. | Proposed Substation | Туре | Transformer<br>Capacity<br>(MVA) | Proposed<br>Fiscal<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est.<br>Total<br>Cost<br>(MRs.) |       |
|------------|---------------------|------|----------------------------------|----------------------------|---------------|---------------|---------------------------------|-------|
| <br> <br>  |                     |      |                                  |                            |               |               |                                 |       |
| 1          | Machiwal            | New  | 2X40                             | 2021-22                    | 360           | 30            | 390                             | _     |
| 2          | Lodhran-2           | New  | 2x40                             | 2021-22                    | 360           | 30            | 390                             | (     |
| 3          | Jatoi-2             | New  | 2x40                             | 2021-22                    | 360           | 30            | 390                             |       |
| 4          | P.Ghaib 132KV       | New  | 1x40                             | 2021-22                    | 244           | 24            | 268                             |       |
| 5          | Shah Jamal          | New  | 1x40                             | 2021-22                    | 244           | 24            | 258                             | ····· |
| 6          |                     | New  | 2x40                             | 2021-22                    | 360           | 30            | 390                             | -     |
| 7          | BUDLA SANT/VEHARI   | New  | 2×40                             | 2021-22                    | 200           | 20            | 200                             |       |
| 8          | Desce Desci         |      | 2240                             | 2021-22                    | 300           |               | 330                             |       |
| 9          | Bosan Koad          | EXT  | 40                               | 2021-22                    | 117           | 6             | 124                             |       |
| 10         | Qasimpur            | Ext  | 40                               | 2021-22                    | 117           | 6             | 124                             |       |
|            | Bahawalpur Cantt    | Ext  | 26                               | 2021-22                    | 60            | 5             | 65                              |       |
|            | MESCO               | Ext  | 40                               | 2021-22                    | 117           | 6             | 124                             |       |
| 12         | Vehari Road Multan  | Ext  | 40                               |                            | 117           | 6             | 124                             |       |
| 13         | DUNYA PUR           | Ext  | 26                               | 2021-22                    | 60            | 5             | 65                              |       |
| 14         | K.P.TAMMEWALI       | Ext  | 26                               | 2021-22                    | 60            | 5             | 65                              |       |

|                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |    | 2021-22 |      |   |     |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|---------|------|---|-----|
| 15                                                                                       | GARHMORE                                                                                                                                                                                                                                                                                                                                                                                                                                       | Exť | 26 | м.<br>С | 60   | 5 | 65  |
| 10                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |    | 2021-22 |      |   |     |
| 10                                                                                       | KAROR                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ext | 26 |         | 98   | 5 | 103 |
| 17                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |    | 2021-22 |      |   |     |
| ·                                                                                        | LIAQATPUR                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ext | 26 |         | 60   | 5 | 65  |
| 10                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |    | 2021-22 |      |   |     |
| 10                                                                                       | Khichiwala                                                                                                                                                                                                                                                                                                                                                                                                                                     | Aug | 40 |         | 96   | 0 | 96  |
| 10                                                                                       | · .                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |    | 2021-22 |      |   |     |
| 15 6   16 K   17 L   18 K   19 V   20 K   21 F   22 L   23 K   24 J   25 B   26 C   27 C | Vehari                                                                                                                                                                                                                                                                                                                                                                                                                                         | Aug | 40 |         | 96   | 0 | 96  |
| 20 K<br>21 F<br>22 L                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |    | 2021-22 |      |   |     |
|                                                                                          | Khichiwala                                                                                                                                                                                                                                                                                                                                                                                                                                     | Aug | 40 |         | 96   | 0 | 96  |
| 21                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |    | 2021-22 |      |   |     |
|                                                                                          | Fateh Pur                                                                                                                                                                                                                                                                                                                                                                                                                                      | Aug | 40 |         | 96   | 0 | 96  |
| 22                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |    | 2021-22 |      |   |     |
| Z. Z.                                                                                    | Layyah                                                                                                                                                                                                                                                                                                                                                                                                                                         | Aug | 40 |         | 96   | 0 | 96  |
| 23                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |    | 2021-22 |      |   |     |
|                                                                                          | Kacha Khu                                                                                                                                                                                                                                                                                                                                                                                                                                      | Aug | 40 |         | 96   | 0 | 96  |
| 24                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |    | 2021-22 |      |   |     |
| 16 k   17 L   18 k   19 N   20 k   21 F   22 L   23 k   24 J   25 E   26 C   27 C   28 N | J.D.WALI                                                                                                                                                                                                                                                                                                                                                                                                                                       | Aug | 40 |         | . 96 | 0 | 96  |
| 25                                                                                       | Vehari     Aug     40     96     0       Khichiwala     Aug     40     96     0       Khichiwala     Aug     40     96     0       Fateh Pur     Aug     40     96     0       Fateh Pur     Aug     40     96     0       Layyah     Aug     40     96     0       Kacha Khu     Aug     40     96     0       J.D.WALI     Aug     40     96     0       BAHAWALNAGAR     Aug     40     96     0       GARHMORE     Aug     40     96     0 |     |    |         |      |   |     |
| 25                                                                                       | BAHAWALNAGAR                                                                                                                                                                                                                                                                                                                                                                                                                                   | Aug | 40 |         | 96   | 0 | 96  |
| 26                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |    | 2021-22 |      |   |     |
| 20                                                                                       | GARHMORE                                                                                                                                                                                                                                                                                                                                                                                                                                       | Aug | 40 |         | 96   | 0 | 96  |
| ,<br>                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |    | 2021-22 |      |   |     |
| 27                                                                                       | DG KHAN-1                                                                                                                                                                                                                                                                                                                                                                                                                                      | Aug | 40 |         | 96   | 0 | 96  |
| 70                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |    | 2021-22 |      |   |     |
| 20                                                                                       | MAN KOT                                                                                                                                                                                                                                                                                                                                                                                                                                        | Aug | 40 |         | 96   | 0 | 96  |

Sub Total (A)

4462 (MRs.)

#### **132 KV CAPACITOR BANKS**

| Sr.<br>No. | NAME OF<br>GRID STATION | MVAR<br>PROPOSED | YEAR    | LCC (MRs.) | FCC (MRs.) | Est. Total Cost<br>(MRs.) |
|------------|-------------------------|------------------|---------|------------|------------|---------------------------|
| 1          | Bahawalnagar            | 24               | 2021-22 | 34.03      | -          | 34.03                     |
| 2          | Burewala Old            | 24               | 2021-22 | 34.03      | -          | 34.03                     |

|   | 3 | Chushtian | 24 | 2021-22 | 34.03 | - | 34.03 |
|---|---|-----------|----|---------|-------|---|-------|
| Î |   |           |    |         |       |   |       |

| Sub Total (D) | 107 (MD-)    |
|---------------|--------------|
| SUD IOLAI (B) | TUZ (IVIKS.) |
|               |              |
|               |              |

## TWIN BUNDLING OF 132KV BUS BAR

| Sr.<br>No. | Name of Grid Station | Proposed Year | LCC (MRs.) | FCC (MRs.) | Est. Total Cost<br>(MRs.) |
|------------|----------------------|---------------|------------|------------|---------------------------|
| 1          | 132KV A.P.East       | 2021-22       | 5.0        | -          | 5.0                       |
| 2          | 132KV Feroza         | 2021-22       | 5.0        | -          | 5.0                       |
| 3          | 132KV Khan Pur       | 2021-22       | 5.0        | -          | 5.0                       |
| 4          | 132KV PGHS Multan    | 2021-22       | 5.0        | -          | 5.0                       |
| 5          | 132KV Yazman         | 2021-22       | 5.0        | -          | 5.0                       |
| 6          | 132KV Layyah         | 2021-22       | 5.0        | -          | 5.0                       |

| Sub Total (C) | <b>30</b> (MRs.) |
|---------------|------------------|
|---------------|------------------|

## EXTENSION OF 11KV CONTROL HOUSE BUILDING

| Sr.<br>No. | Name of<br>Grid<br>Station      | Remarks                                                                   | Proposed<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est. Total<br>Cost<br>(MRs.) |
|------------|---------------------------------|---------------------------------------------------------------------------|------------------|---------------|---------------|------------------------------|
| 1          | 132KV<br>Qasim<br>Pur<br>Multan | Extension of existing 11KV switch room.                                   | 2021-22          | 2.3           |               | 2.3                          |
| 2          | 132KV<br>Chowk<br>Munda         | Extension of existing 11KV control house building                         | 2021-22          | 2.3           | -             | 2.3                          |
| 3          | 132KV<br>Dunyapur               | Extension required to accommodate the panel board on Augmentation of PTF. | 2021-22          | 2.3           | -             | 2.3                          |
| 4          | 132KV<br>Sahiwal<br>New         | Extension required to accommodate the panel board on Augmentation of PTF. | 2021-22          | 2.3           | -             | 2.3                          |

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| 5 | 132KV<br>K.P<br>Tamewali          | Extension required to accommodate the panel board on Augmentation of PTF. | 2021-22 | 2.3 | - | 2.3 |
|---|-----------------------------------|---------------------------------------------------------------------------|---------|-----|---|-----|
| 6 | 132KV<br>Mailsi                   | Extension required to accommodate the panel board on Augmentation of PTF. | 2021-22 | 2.3 | - | 2.3 |
| 7 | 66KV<br>Nawan<br>Kot              | Extension of existing 11KV control house building                         | 2021-22 | 2.3 | - | 2.3 |
| 8 | 132KV<br>Khan Pur                 | 11KV control room (T-1)                                                   | 2021-22 | 2.3 | - | 2.3 |
| 9 | 132KV<br>Rahim<br>Yar Khan-<br>II | 11KV control room (T-2)                                                   | 2021-22 | 2.3 | - | 2.3 |

1. . Sub Total (D)

21.1 (MRs.)

| Sr.<br>No. | Name of T/Line      | Length<br>(km) | Туре                                | Conductor | Proposed<br>Fiscal<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.)         | Est. Total<br>Cost (MRs.) |
|------------|---------------------|----------------|-------------------------------------|-----------|----------------------------|---------------|-----------------------|---------------------------|
|            | F/F Machiwal (I/O   |                | -<br>-<br>-                         |           | 2021-22                    |               |                       |                           |
| 1          | of Vehari 220 KV -  | 1              | DC                                  | LYNX      |                            | 13            | 5                     | 17                        |
|            | Burewala)           |                |                                     |           |                            |               |                       |                           |
|            | F/F Lodhran - 2     |                |                                     |           | 2021-22                    |               |                       |                           |
| 2          | (I/O 220/132 KV     | 4              | DC                                  | RAIL      |                            | 52            | 5                     | 57                        |
|            | BWP - Lodhran)      |                |                                     |           |                            |               |                       |                           |
| 3          | F/FJatoi-2 (Jatoi - | 36             | SDT                                 | RAII      | 2021-22                    | 310           | 9                     | 319                       |
|            | Jatoi-2 - Alipur)   |                |                                     |           |                            |               |                       | 515                       |
|            | F/F P.Ghaib 132     |                |                                     |           | 2021-22                    |               |                       |                           |
| .4         | KV (I/O 220 KV      | 2              | DC                                  | RAIL      |                            | 32            | 5                     | 37                        |
|            | NGPS - 132          |                |                                     |           |                            |               |                       |                           |
|            | Vehari Road)        |                |                                     |           |                            |               |                       |                           |
|            | F/F Shah Jamal      |                |                                     |           | 2021-22                    |               | a san a san<br>Alaman |                           |
| 5          | (1/O 220 KV         | 12             | DC                                  | LYNX      |                            | 95            | 9                     | 104                       |
|            | Muzaffargarh -      |                | 1999)<br>1997 - 1997<br>1997 - 1997 |           |                            |               |                       |                           |
| ni ann     | 132 KV D.G.Khan)    |                |                                     |           |                            |               |                       |                           |
| 6          | F/F Sadiqabad-2     |                |                                     |           | 2021-22                    |               |                       |                           |
|            | (In/Out             | 2              | DC                                  | RAIL      |                            | 32            | 5                     | 37                        |
|            | Arrangement of      |                | an Circa<br>ana                     |           |                            |               |                       |                           |
|            | Sadiqabad - J.D.W   |                | · · · ·                             |           |                            |               |                       |                           |

## 132 KV T/LINES (NEW+RECONDUCTORING)

|    | Station                                       |    |     |                              |         |     |   |       |   |
|----|-----------------------------------------------|----|-----|------------------------------|---------|-----|---|-------|---|
|    |                                               |    |     |                              |         |     |   |       |   |
| 20 | 132KV Qabula-<br>Sahuka T/L                   | 25 | SDT | Rail                         | 2021-22 | 219 | 9 | 228   |   |
| 21 | 132KV Bonga<br>Hayat-Pak Pattan<br>T/L        | 22 | SDT | Rail                         | 2021-22 | 198 | 9 | 207   |   |
| 22 | 132KV Lal<br>Sonhara-Hasil Pur<br>T/L         | 65 | SC  | Reconductoring<br>with Rail  | 2021-22 | 242 | 5 | 247   |   |
| 23 | 132KV<br>Yousafwala-<br>Sahiwal New CCT-<br>I | 5  | SC  | Reconductoring<br>with Rail  | 2021-22 | 43  | 5 | 48    |   |
| 24 | 132KV Mian<br>Channu-220/132<br>KV Kassowal   | 18 | SC  | Reconductoring<br>with Rail  | 2021-22 | 101 | 5 | 105 · | С |
| 25 | 220/132 KV<br>Vehari-Ludden<br>T/L            | 29 | SDT | Stringing of 2 <sup>nd</sup> | 2021-22 | 42  | - | 42    |   |

Sub Total (E)

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3065 (MRs.)

Grand Total (A+B+C+D+E)

7680 (MRs.)

| - 22 | WAPDA TOWN  | Aug                | 40 | 2020-21 | 90 | 0 | 90 |
|------|-------------|--------------------|----|---------|----|---|----|
|      |             | No. St. Starter of |    |         |    |   |    |
| 23   | M.P.PAHORAN | Aug                | 40 | 2020-21 | 90 | 0 | 90 |
| 24   | WAPDA TOWN  | Aug                | 40 | 2020-21 | 90 | 0 | 90 |
| 25   | SHUJABAD    | Aug                | 40 | 2020-21 | 90 | 0 | 90 |
| - 26 | QABULA      | Aug                | 40 | 2020-21 | 90 | 0 | 90 |

| Sub Total (A) 3612 (MRs.) | Sub Total (A) 3612 (MRs.) |
|---------------------------|---------------------------|
|---------------------------|---------------------------|

#### **132 KV CAPACITOR BANKS**

| Sr. No. | NAME OF GRID<br>STATION | MVAR<br>PROPOSED | YEAR    | LCC (MRs.) | FCC (MRs.) | Est. Total Cost<br>(MRs.) |
|---------|-------------------------|------------------|---------|------------|------------|---------------------------|
| 1       | Head Sidhnai            | 24               | 2020-21 | 31.95      | -          | 31.95                     |
| 2       | Lodhran                 | 36               | 2020-21 | 37.27      | -          | 37.27                     |
| 3       | Ahmed Pur<br>East       | 24               | 2020-21 | 31.95      | -          | 31.95                     |
| 4       | ARIFWALA                | 36               | 2020-21 | 37.27      | -          | 37.27                     |
| 5       | Alipur                  | 36               | 2020-21 | 37.27      | _          | 37.27                     |

|  | Ang Santa | Sub Tot | :al (B) |  | Ì |
|--|-----------|---------|---------|--|---|

## TWIN BUNDLING OF 132KV BUS BAR

| Sr. No. | Name of Grid Station | Proposed Year | LCC (MRs.) | FCC (MRs.) | Est. Total Cost<br>(MRs.) |  |
|---------|----------------------|---------------|------------|------------|---------------------------|--|
| 1       | 132KV Lal Sohanra    | 2020-21       | 4.7        | -          | 4.7                       |  |
| 2       | 132KV Kot Addu       | 2020-21       | 4.7        | -          | 4.7                       |  |
| 3       | 132KV Sadiq Abad     | 2020-21       | 4.7        | ···        | 4.7                       |  |
| 4       | 132KV Lodhran        | 2020-21       | 4.7        | -          | 4.7                       |  |
| 5       | 132KV D.G.Khan-I     | 2020-21       | 4.7        | -          | 4.7                       |  |
| 6       | 132KV R.Y.Khan-I     | 2020-21       | 4.7        | -          | 4.7                       |  |

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176 (MRs.)

## LIST OF PROJECT S T/LINES & GRID STATIONS

## Financial Year 2022-23

| Sr.<br>No. | Proposed Substation         | Туре | Transformer<br>Capacity<br>(MVA) | Proposed<br>Fiscal<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est.<br>Total<br>Cost<br>(MRs.) |
|------------|-----------------------------|------|----------------------------------|----------------------------|---------------|---------------|---------------------------------|
| 1          | Khanewal-2                  | New  | 2X40                             | 2022-23                    | 383           | 32            | 415                             |
| 2          | Muzaggargarh-2              | New  | _ 2x40                           | 2022-23                    | 3,83          | 32            | 415                             |
| 3          | Vehari-2                    | New  | 2x40                             | 2022-23                    | 383           | 32            | 415                             |
| 4          | Kot Mithan                  | New  | 1x40                             | 2022-23                    | 260           | 26            | 286                             |
| 5          | Darawar More                | New  | 1x40                             | 2022-23                    | 260           | 26            | 286                             |
| .6         | MUSA VIRK/ MIAN<br>CHANNU-2 | New  | 2×40                             | 2022-23                    | 383           | 32            | 415                             |
| 7          | Kot Khalifa                 | Conv | 2x13, 1x26                       | 2022-23                    | 37            | 218           | 255                             |
| 8          | Hasilpur                    | Ext  | 26                               | 2022-23                    | 64            | 6             | 69                              |
| 9          | Khanbela                    | Ext  | 26                               | 2022-23                    | 64            | 6             | 69                              |
| 10         | NawazabadBhong              | Ext  | 26                               | 2022-23                    | 64            | 6             | 69                              |
| 11         | Fort Mannro                 | Ext  | 13                               | 2022-23                    | 39            | 6             | 44                              |
| 12         | KAMEER                      | Ext  | 26                               | 2022-23                    | 64            | 6             | 69                              |
| 13         | DG KHAN-2                   | Ext  | 26                               | 2022-23                    | 64            | 6             | 69                              |
| 1.4        | BAHAWALPUR                  | Ext  | 26                               | 2022-23                    | 104           | 6             | 110                             |
| 15         | СНОТІ                       | Ext  | 26                               | 2022-23                    | 64            | 6             | 69                              |
| 16         | ROJHAN                      | Ext  | 13                               | 2022-23                    | 39            | 6             | 44                              |
| 17         | Khanpur                     | Aug  | 40                               | 2022-23                    | 102           | 0             | 102                             |
| 18         | Dammarwala                  | Aug  | 40                               | 2022-23                    | 102           | 0             | 102                             |
| 19         | Alipur                      | Aug  | 40                               | 2022-23                    | 102           | 0             | 102                             |
| 20         | Kot Addu                    | Aug  | 40                               | 2022-23                    | 102           | 0             | 102                             |
| 21         | Feroza                      | Aug  | 40                               | 2022-23                    | 102           | • 0           | 102                             |

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| 22 |               |     |    | 2022-23 |     |   |     |
|----|---------------|-----|----|---------|-----|---|-----|
|    | Karam Pur     | Aug | 40 | - ALT   | 102 | 0 | 102 |
| 22 |               |     |    | 2022-23 |     |   |     |
| 25 | A.P.EAST      | Aug | 40 |         | 102 | 0 | 102 |
| 24 |               |     |    | 2022-23 |     |   |     |
| 24 | K.P.TAMMEWALI | Aug | 40 |         | 102 | 0 | 102 |
| 25 |               |     |    | 2022-23 |     |   |     |
| 25 | MAN KOT       | Aug | 40 |         | 102 | 0 | 102 |
| 20 |               |     | -  | 2022-23 |     |   |     |
| 26 | GUJRAT SOUTH  | Aug | 40 |         | 102 | 0 | 102 |
| 77 |               |     |    | 2022-23 |     |   |     |
|    | ΜΑΝ ΚΟΤ       | Aug | 40 |         | 102 | 0 | 102 |

Sub Total (A) 4224 (MRs.)

**132 KV CAPACITOR BANKS** 

| Sr.<br>No. | NAME OF<br>GRID STATION | MVAR<br>PROPOSED | YEAR    | LCC (MRs.) | FCC (MRs.)  | Est. Total Cost<br>(MRs.) |
|------------|-------------------------|------------------|---------|------------|-------------|---------------------------|
| 1          | Faqirwali               | 24               | 2022-23 | 36.24      | -           | 36.24                     |
| 2          | Mailsi                  | 48               | 2022-23 | 45.37      |             | 45.37                     |
| 3          | Maroot                  | 36               | 2022-23 | 42.27      | -<br>-<br>- | 42.27                     |

| Sub Total (B) | 124 (MRs.) |  |
|---------------|------------|--|
|---------------|------------|--|

#### TWIN BUNDLING OF 132KV BUS BAR

| Sr.<br>No. | Name of Grid Station | Proposed Year | LCC (MRs.) | FCC (MRs.)                         | Est. Total Cost<br>(MRs.) |
|------------|----------------------|---------------|------------|------------------------------------|---------------------------|
| 1          | 132KV Choubara       | 2022-23       | 5.3        |                                    | 5.3                       |
| 2          | 132KV Chowk Munda    | 2022-23       | 5.3        | сан (ан сулсан)<br>1975 — <b>-</b> | 5.3                       |
| 3          | 132KV Mubarak Pur    | 2022-23       | 5.3        |                                    | 5.3                       |

|       | Sub Total (C) | and the second second second second second second second second second second second second second second secon  | 16 (MR | s.) |
|-------|---------------|------------------------------------------------------------------------------------------------------------------|--------|-----|
| · · · |               | and the second second second second second second second second second second second second second second second |        |     |

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#### **EXTENSION OF 11KV CONTROL HOUSE BUILDING**

|    | Power Plant T/L<br>at 132 KV                             |    |     |                             |         |     |          |      |
|----|----------------------------------------------------------|----|-----|-----------------------------|---------|-----|----------|------|
|    | Sadiqabad-2)                                             |    |     |                             |         |     |          |      |
|    | F/F Budla                                                |    |     |                             | 2021-22 |     |          |      |
|    | Sant/Vehari<br>Road-2 (In/Out                            | r. |     |                             |         |     |          |      |
| 7  | Arrangement of<br>P.Ghaib -                              | 3  | DC  | LYNX                        |         | 38  | 5        | 43 - |
|    | Makhdom Rashid<br>T/L at 132 KV                          |    |     |                             |         |     |          | -    |
| ·  | Budia Sant)                                              |    |     |                             |         |     | ·        |      |
| 8  | - Gujrat -<br>Muzaffargarh                               | 60 | DC  | Reconductoring<br>with RAIL | 2021-22 | 59  | -        | 59   |
| 9. | 132 KV T/L<br>Yazman - Maroot                            | 66 | SDT | RAIL                        | 2021-22 | 544 | 9        | 553  |
| 10 | 500KV Sardar<br>Garh- Jamal Din<br>Wali T/Line           | 45 | SDT | Rail                        | 2021-22 | 390 | 9        | 399  |
| 11 | 132KV Layyah –<br>Karor T/Line                           | 29 | SDT | LYNX                        | 2021-22 | 40  | _        | 40   |
| 12 | 132KV NGPS –<br>Basti Malook<br>T/Line                   | 44 | sc  | Reconductoring<br>with LYNX | 2021-22 | 67  |          | 67   |
| 13 | 132KV Industrial<br>Estate – Jail Road<br>– Mesco T/Line | 17 | SC  | Reconductoring<br>with LYNX | 2021-22 | 29  | -        | 29   |
| 14 | 132KV Sadiqabad-<br>Guddu T/Line                         | 46 | SC  | Reconductoring<br>with LYNX | 2021-22 | 72  | -        | 72   |
| 15 | 132KV Rahim Yar<br>Khan - Sardar<br>Garh CCT-II          | 54 | SC  | Reconductoring<br>with LYNX | 2021-22 | 84  |          | 84   |
| 16 | 132KV Rahim Yar<br>Khan -I - Rahim<br>Yar Khan-II T/Line | 15 | SC  | Reconductoring<br>with LYNX | 2021-22 | 24  |          | 24   |
| 17 | 132KV R.Y.Khan-<br>II-Sardar Garh<br>CCT-I               | 54 | SC  | Reconductoring<br>with LYNX | 2021-22 | 83  | <u> </u> | 83   |
|    | 132KV Kot Addu -                                         |    |     |                             | 2021-22 |     |          |      |
| 18 | Chowk Munda                                              | 38 | SC  | Reconductoring<br>with LYNX |         | 62  | -        | 62   |
|    | IN & Out<br>arrangement of                               |    |     |                             | 2021-22 |     |          |      |
| 19 | 132KV NGPS –<br>Khanewal                                 | 13 | DC  | LYNX                        |         | 99  | 5        | 103  |
|    | Transmission Line<br>at Kabirwala Grid                   |    |     |                             |         |     |          |      |

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 $\int_{\mathbb{T}} |\widehat{\mathcal{L}}_{ij}(x)| \leq \sum_{i=1}^{n-1} \int_{\mathbb{T}} \int_{\mathbb{T}} |\widehat{\mathcal{L}}_{ij}(x)| \leq \sum_{i=1}^{n-1} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} |\widehat{\mathcal{L}}_{ij}(x)| \leq \sum_{i=1}^{n-1} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}} \int_{\mathbb{T}$ 

| Sr.<br>No. | Name of<br>Grid<br>Station     | Remarks                                                                            | Proposed<br>Year | LCC (MRs.) | FCC<br>(MRs.) | Est. Total<br>Cost<br>(MRs.) |
|------------|--------------------------------|------------------------------------------------------------------------------------|------------------|------------|---------------|------------------------------|
| 1          | 132KV<br>Ludden                | Extension required to accommodate the panel board on Augmentation of PTF.          | 2022-23          | 2.5        | -             | 2.5                          |
| 2          | 132KV<br>Karam<br>Pur          | Extension required to accommodate the panel board on Bifurcation of 11 KV Feeders. | 2022-23          | 2.5        | -             | 2.5                          |
| 3          | 132KV<br>Jalal Pur<br>Pir Wala | Extension with new control room for T-3 Power Transformer                          | 2022-23          | 2.5        | _             | 2.5                          |
| 4          | 132KV<br>Makhdum<br>Rashid     | Extension of existing 11KV switch room.                                            | 2022-23          | 2.5        | -             | 2.5                          |
| 5          | 132KV<br>Damar<br>Wala         | Extension of existing 11KV control house building                                  | 2022-23          | 2.5        |               | 2.5                          |

## Sub Total (D)

12.5 (MRs.)

## 132 KV T/LINES (NEW+RECONDUCTORING)

| Sr.<br>No. | Name of T/Line                                                      | Length<br>(km) | Туре | Conduc<br>tor | Proposed<br>Fiscal<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est. Total<br>Cost<br>(MRs.) |
|------------|---------------------------------------------------------------------|----------------|------|---------------|----------------------------|---------------|---------------|------------------------------|
| 1          | F/F Khanewal-2 (I/O of NGPS -<br>Khanewal)                          | 1              | DC   | LYNX          | 2022-23                    | 32            | 5             | 37                           |
| 2          | F/F Muzaffargarh-2 (220/132<br>KV Muzaffargarh -<br>Muzaffargarh-2) | 5              | SDT  | RAIL          | 2022-23                    | 66            | 5             | 71                           |
| _3         | F/F Vehari-2 (Vehari 220/132<br>Kv - Vehari-2)                      | 8              | SDT  | RAIL          | 2022-23                    | 93            | 5             | 98                           |
| 4          | F/F Kot Mithan (I/O Rjanpur -<br>Rojhan)                            | 6              | DC   | LYNX          | 2022-23                    | 65            | 5             | 70                           |
| 5          | F/F Drawar More (132 KV Head<br>Rajkan - 132 KV Drawar More)        | 24             | DC   | RAIL          | 2022-23                    | 314           | 10            | 324                          |

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| 6  | F/F 132 KV Kot khalifa (I/O of<br>APE - Liaqatpur)                                                                | 7   | DC                | LYNX                                      | 2022-23 | 64  | 5  | 69  |
|----|-------------------------------------------------------------------------------------------------------------------|-----|-------------------|-------------------------------------------|---------|-----|----|-----|
| 7  | F/F 132 KV Musa Virk Mian<br>Channu-2 (In/Out Arrangement<br>of Khanewal -Chak-83 T/L at<br>132 KV Mian Channu-2) | 2   | DC                | LYNX                                      | 2022-23 | 34  | 5  | 39  |
| 8  | 132 KV T/L Haroonabad -<br>Faqirwali - Faortabbas - Maroot                                                        | 86  | Second<br>Circuit | 2nd<br>Line<br>Stringin<br>g With<br>LYNX | 2022-23 | 164 | -  | 164 |
| 9  | I/O of Kotchutta - Guddu 132<br>KV T/L at Fazilpur                                                                | 0.5 | DC                | LYNX                                      | 2022-23 | 22  | -  | 22  |
| 10 | I/O of Kotchutta - Guddu 132<br>KV T/L at Rajanpur                                                                | 0.5 | DC                | LYNX                                      | 2022-23 | 22  | -  | 22  |
| 11 | I/O of Kotchutta - Guddu 132<br>KV T/L at Rujhan                                                                  | 0.5 | DC                | LYNX                                      | 2022-23 | 22  | -  | 22  |
| 12 | I/O of RYK 500/220/132 KV -<br>132 KV R.Y.K-1 T/L at<br>M.W.Qureshian                                             | 3   | DC                | RAIL                                      | 2022-23 | 62  | 5  | 67  |
| 13 | 132KV D/C T/L from New<br>Multan – PGHS                                                                           | 4   | DC                | Rail                                      | 2022-23 | 72  | 5  | 77  |
| 14 | 132KV Shujabad – Jalal Pur Pir<br>Wala D/C T/Line                                                                 | 42  | DC                | Rail                                      | 2022-23 | 523 | 10 | 533 |
| 15 | 132KV Lar – Basti Malook<br>T/Line                                                                                | 19  | DC                | Recond<br>uctorin<br>g with<br>LYNX       | 2022-23 | 60  | -  | 60  |
| 16 | 132KV Nawazabad – Guddu<br>T/Line                                                                                 | 17  | DC                | Recond<br>uctorin<br>g with<br>LYNX       | 2022-23 | 56  |    | 56  |
| 17 | 132KV Sadiqabad-Nawazabad<br>T/Line                                                                               | 32  | DC                | Recond<br>uctorin<br>g with<br>LYNX       | 2022-23 | 97  | -  | 97  |
| 18 | 132KV Kot Addu – Chowk Azam<br>T/Line                                                                             | 90  | DC                | Recond<br>uctorin<br>g with<br>LYNX       | 2022-23 | 258 |    | 258 |
| 19 | 132KV Pak Pattan-Pak Pattan-2<br>T/L                                                                              | 4   | DC                | Rail                                      | 2022-23 | 40  | -  | 40  |
| 20 | 132KV Sahiwal Old-Pak Pattan<br>T-Off Noorpur                                                                     | 51  | SC                | Recond<br>uctorin<br>g with               | 2022-23 | 314 | 10 | 323 |
|    |                                                                                                                   |     |                   | g with                                    |         |     |    |     |

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| •    |                                       |    |    | Rail                                |         |     |    |     |
|------|---------------------------------------|----|----|-------------------------------------|---------|-----|----|-----|
| 21   | 132KV Khanewal-Kacha KhuT/L           | 37 | SC | Recond<br>uctorin<br>g with<br>Rail | 2022-23 | 231 | 10 | 241 |
| - 22 | 132KV Yousawala-Sahiwal New<br>CCT-II | 5  | SC | Recond<br>uctorin<br>g with<br>Rail | 2022-23 | 46  | 5  | 51  |

| Sub Total (E)           | 2743 (MRs.) |
|-------------------------|-------------|
|                         |             |
| Grand Total (A+B+C+D+E) | 7120 (MRs.) |

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## LIST OF PROJECT S T/LINES & GRID STATIONS

#### Financial Year 2023-24

| Sr. | Dran and Substation | Turce | Transformer<br>Capacity | Proposed | LCC    | FCC    | Est.<br>Total  |
|-----|---------------------|-------|-------------------------|----------|--------|--------|----------------|
| No. | Proposed Substation | iype  | (MVA)                   | Year     | (MRs.) | (MRs.) | Cost<br>(MRs.) |
| 1   | Kot Samaba          | New   | 2X40                    | 2023-24  | 408    | 34     | 442            |
| 2   | Bahawalpur-2        | New   | 2x40                    | 2023-24  | 408    | 34     | 442            |
| 3   | Array Wahan         | New   | 2x40                    | 2023-24  | 408    | 34     | 442            |
| 4   | Layyah-2            | New   | 1x40                    | 2023-24  | 277    | 28     | 304            |
| 5   | CHICHAWATNI-2       | New   | 2x40                    | 2023-24  | 408    | 34     | 442            |
| 6   | Dajal               | Ext   | 13                      | 2023-24  | 41     | 6      | 47             |
| 7   | Noor Ahmad Wali     | Ext   | 13                      | 2023-24  | 41     | 6      | 47             |
| 8   | Bonga Hayat         | Ext   | 26                      | 2023-24  | 68     | 6      | 74             |
| 9   | Hoota               | Ext   | 26                      | 2023-24  | 68     | 6      | 74             |
| 10  | Qadirabad           | Ext   | 26                      | 2023-24  | 68     | 6      | 74             |
| 11  | CHOWK MUNDA         | Ext   | .26                     | 2023-24  | 111    | 6      | 117            |
| 12  | HEAD SIDHNAI        | Ext   | 26                      | 2023-24  | 68     | 6      | 74             |
| 13  | СНАК 83/12          | Ext   | 26                      | 2023-24  | 68     | 6      | 74             |
| 14  | CHOWK AZAM          | Ext   | 26                      | 2023-24  | 68     | 6      | 74             |
| 15  | DAMMARWALA          | Ext   | 26                      | 2023-24  | 68     | 6      | 74             |
| 16  | Chishtian           | Aug   | 40                      | 2023-24  | 108    | 0      | 109            |
| 17  | Lal Sohanra         | Aug   | 40                      | 2023-24  | 108    | 0      | 109            |
| 18  | Karorpacca          | Aug   | 40                      | 2023-24  | 108    | 0      | 109            |
| 19  | RYK-2               | Aug   | 40                      | 2023-24  | 108    | 0      | 109            |
| 20  | Mehrakhas           | Aug   | 40                      | 2023-24  | 108    | 0      | 109            |
| 21  | Mehrakhas           | Aug   | 40                      | 2023-24  | 108    | 0      | 109            |
| 22  | A.P.EAST            | Aug   | 40                      | 2023-24  | 108    | 0      | 109            |

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|   | 117.00   | 1.00 |  | 12 |
|---|----------|------|--|----|
| • | - 19 (P) | - 1  |  | ε. |
|   |          |      |  |    |

| 23 |              |     |    | 2023-24 |     |   |     |
|----|--------------|-----|----|---------|-----|---|-----|
|    | BASTIMALOOK  | Aug | 40 |         | 108 | 0 | 109 |
| 24 |              |     |    | 2023-24 |     |   |     |
| 24 | CHAK-211     | Aug | 40 | · ·     | 108 | 0 | 109 |
| 25 |              |     |    | 2023-24 |     |   |     |
| 25 | QABULA       | Aug | 40 |         | 108 | 0 | 109 |
| 26 |              |     |    | 2023-24 |     |   |     |
| 20 | HEAD SIDHNAI | Aug | 40 |         | 108 | 0 | 109 |
|    |              |     |    |         |     |   |     |

| Sub Total (A) 3996 (MRs.) |               |               |
|---------------------------|---------------|---------------|
|                           | Sub Total (A) | 2996 (MPc)    |
|                           |               | 3330 (Mills.) |

#### **132 KV CAPACITOR BANKS**

| Sr. No. | NAME OF GRID<br>STATION | MVAR<br>PROPOSED | YEAR    | LCC (MRs.) | FCC (MRs.) | Est. Total Cost<br>(MRs.) |
|---------|-------------------------|------------------|---------|------------|------------|---------------------------|
| 1       | Sahuka                  | 24               | 2023-24 | 38.59      |            | 38.59                     |
| 2       | Chichawatni             | 48               | 2023-24 | 48.32      |            | 48.32                     |

| Sub Total (B) |  | 87 (MRs.) |
|---------------|--|-----------|
|               |  |           |

## EXTENSION OF 11KV CONTROL HOUSE BUILDING

| Sr.<br>No. | Name of Grid<br>Station               | Remarks                     | Proposed<br>Year | LCC (MRs.) | FCC (MRs.) | Est. Total<br>Cost<br>(MRs.) |
|------------|---------------------------------------|-----------------------------|------------------|------------|------------|------------------------------|
| 1          | 132KV Jamal<br>Din Wali               | 11KV control room (T-<br>2) | 2023-24          | 2.7        |            | 2.7                          |
|            | · · · · · · · · · · · · · · · · · · · |                             |                  |            |            |                              |

| Sub Total (C) | 1.5 | 27/MRs)   | · · |
|---------------|-----|-----------|-----|
|               |     | 2 (minor) |     |

## 132 KV T/LINES (NEW+RECONDUCTORING)

| Sr.<br>No | Name of T/Line                       | Length<br>(km) | Туре | Conductor | Proposed<br>Fiscal<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est. Total<br>Cost<br>(MRs.) |
|-----------|--------------------------------------|----------------|------|-----------|----------------------------|---------------|---------------|------------------------------|
| 1         | F/F Kot Samaba<br>(I/O 500KV R.Y.K - | 2              | DC   | LYNX      | Year 4                     | 44            | 5             | 49                           |

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|    | 132 KV R.Y.K)                                                                                                                |      | -   |                             |        |     |    | -   |
|----|------------------------------------------------------------------------------------------------------------------------------|------|-----|-----------------------------|--------|-----|----|-----|
| 2  | F/F Bahawalpur-2<br>(I/O B.U.Jadid -<br>Bahawalpur)                                                                          | 0.5  | DC  | LYNX                        | Year 4 | 24  | -  | 24  |
| 3  | F/F Array Wahan<br>(I/O of Karorpacca -<br>Mailsi)                                                                           | 3    | DC  | LYNX                        | Year 4 | 30  | 5  | 35  |
| 4  | F/F 132 KV<br>Nawakot (132 KV<br>Choubara - 132 KV<br>Nawakot)                                                               | 20   | SDT | LYNX                        | Year 4 | 126 | 5  | 131 |
| 5  | F/F 132 KV<br>Chichawatni-2<br>(In/Out<br>Arrangement of<br>Chichawatni -<br>Sheikh Fazil T/L at<br>132 KV<br>Chichawatni-2) | 2    | DC  | LYNX                        | Year 4 | 24  | 5  | 29  |
| 6  | 132 KV T/L Lal<br>Sohanra - QA Solar                                                                                         | 26.6 | SDT | RAIL                        | Year 4 | 262 | 10 | 272 |
| 7  | 132 KV T/L Lal<br>Sohanra -<br>Karorpacca                                                                                    | 22   | SDT | RAIL                        | Year 4 | 218 | 10 | 229 |
| 8  | 132 KV T/L<br>Qasimpur -<br>Shujabad                                                                                         | 35   | SDT | RAIL                        | Year 4 | 344 | 10 | 354 |
| Э  | 132 KV T/L<br>Qasimpur -<br>BastiMalook                                                                                      | 35   | SDT | RAIL                        | Year 4 | 344 | 10 | 354 |
| 10 | 132KV Basti Malook<br>– Lodhran T/Line                                                                                       | 32   | SC  | Reconductoring<br>with LYNX | Year 4 | 56  | -  | 56  |
| 11 | 132KV Chowk Munda<br>– Choubara T/Line                                                                                       | 76   | SC  | Reconductoring<br>with LYNX | Year 4 | 117 | -  | 117 |
| 12 | 132KV Sardar Garh -<br>Khan Pur CCT-I                                                                                        | 29   | SC  | Reconductoring<br>with LYNX | Year 4 | 52  |    | 52  |
| 13 | 132KV Sardar Garh -<br>Khan Pur CCT-II                                                                                       | 29   | Sc  | Reconductoring<br>with LYNX | Year 4 | 52  |    | 52  |
| 14 | 132KV CCWatni-<br>Sheikh Fazal T/L                                                                                           | 29   | SC  | Reconductoring<br>with LYNX | Year 4 | 52  | -  | 52  |

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|---------------------------------------|-----------------------|---------|--------|
| · · · · · · · · · · · · · · · · · · · |                       | <br>    |        |
|                                       | Sub Total (D)         | 1806 (M | /IRs.) |
|                                       |                       |         |        |
|                                       | Grand Total (A+B+C+D) | 5892 (N | /IRs.) |

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# LIST OF PROJECT S T/LINES & GRID STATIONS

# Financial Year 2024-25

| Sr. | Bronocod Substation | Turpo | Transformer<br>Capacity | Proposed | LCC    | FCC            | Est.<br>Total  |
|-----|---------------------|-------|-------------------------|----------|--------|----------------|----------------|
| No. | Proposed Substation | туре  | (MVA)                   | Year     | (MRs.) | (MRs.)         | Cost<br>(MRs.) |
| 1   | Industrial Estate-2 | New   | 2x26                    | 2024-25  | 297    | 36             | 333            |
| 2   | DGK-3               | New   | 2x13                    | 2024-25  | 241    | . 36           | 277            |
| 3   | Makhdoom Jahanian   | New   | 2x13                    | 2024-25  | 241    | 36             | 277            |
| 4   | Liaqatpur-2         | New   | 2x13                    | 2024-25  | 241    | 36             | 277            |
| 5   | Pull Panju          | New   | 1x26                    | 2024-25  | 225    | 30             | 255            |
| 6   | KOTADU-2            | New   | 2x40                    | 2024-25  | 435    | 36             | 471            |
| 7   | Makhdoom Rashid     | Ext   | 26                      | 2024-25  | 72     | . 6            | 78             |
| 8   | Ludden              | Ext   | 26                      | 2024-25  | 72     | 6              | 78             |
| 9   | Lar                 | Ext   | 26                      | 2024-25  | 72     | 6              | 78             |
| 10  | Maroot              | Ext   | 26                      | 2024-25  | 72     | 6              | 78             |
| 11  | QASIMBAGH           | Ext   | 26                      | 2024-25  | 118    | 6              | 125            |
| 12  | KASSOWAL NEW        | Ext   | 13                      | 2024-25  | 44     | 6              | 50             |
| 13  | BHATI BUNGLOW       | Ext   | 13                      | 2024-25  | 44     | 6              | 50             |
| 14  | JAMPUR              | Ext   | 13                      | 2024-25  | 44     | <sup>.</sup> 6 | 50             |
| 15  | MUBARAKPUR          | Ext   | 26                      | 2024-25  | 72     | 6              | 78             |
| 16  | NOORSAR             | Ext   | 26                      | 2024-25  | 72     | 6              | 78             |
| 17  | Jamal din wali      | Aug   | 40                      | 2024-25  | 116    | 0              | 116            |
| 18  | Rajan Pur           | Aug   | 40                      | 2024-25  | 116    | 0              | 116            |
| 19  | Sheikh Fazil        | Aug   | 40                      | 2024-25  | 116    | 0              | 116            |
| 20  | Sheikh Fazil        | Aug   | 40                      | 2024-25  | 116    | 0              | 116            |
| 21  | Chichawatni         | Aug   | 40                      | 2024-25  | 116    | Ο ·            | 116            |

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| 27 |               |     |    | 2024-25  |     |     |       |
|----|---------------|-----|----|----------|-----|-----|-------|
|    | Jehania       | Aug | 40 |          | 116 | 0   | 116   |
| 22 |               |     |    | 2024-25  |     |     |       |
| 25 | M.W.Qureshian | Aug | 40 | 1        | 116 | 0   | 116   |
| 24 |               |     |    | 2024-25  |     |     |       |
| 24 | Burewala Old  | Aug | 40 |          | 116 | 0   | 116   |
| 25 |               |     |    | 2024-25  |     |     |       |
| 25 | MUBARAKPUR    | Aug | 40 |          | 116 | 0   | 116   |
| 26 |               |     |    | 2024-25  |     |     |       |
| 26 | UCH SHARIF    | Aug | 40 |          | 116 | 0   | 116   |
| 07 |               |     |    | 2024-25  |     |     |       |
| 21 | TAUNSA SHARIF | Aug | 40 |          | 116 | · 0 | _ 116 |
| 20 |               |     |    | 2024-25  |     |     |       |
| 28 | MUBARAKPUR    | Aug | 40 | <u> </u> | 116 | 0   | 116   |

| Sub Total (A) | 4025(MRs.) |  |
|---------------|------------|--|

#### EXTENSION OF 11KV CONTROL HOUSE BUILDING

| Sr.<br>No. | Name of<br>Grid<br>Station      | Remarks                 | Proposed<br>Year | LCC (MRs.) | FCC<br>(MRs.) | Est. Total<br>Cost<br>(MRs.) |
|------------|---------------------------------|-------------------------|------------------|------------|---------------|------------------------------|
| 1          | 132KV<br>Khan Bela              | 11KV control room (T-1) | 2024-25          | 2.8        | -             | 2.8                          |
| 2          | 132KV<br>Mian Wali<br>Qurashain | 11KV control room (T-1) | 2024-25          | 2.8        | -             | 2.8                          |

|   | Sub Total (D)                         | E 7 (Mp.)           |       |
|---|---------------------------------------|---------------------|-------|
| - |                                       | <b>3.7</b> (IVIKS.) |       |
|   | · · · · · · · · · · · · · · · · · · · |                     | . E · |

# 132 KV T/LINES (NEW+RECONDUCTORING)

| Sr.<br>No. | Name of T/Line                                | Length<br>(km) | Туре | Conductor | Proposed<br>Fiscal<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est. Total<br>Cost<br>(MRs.) |
|------------|-----------------------------------------------|----------------|------|-----------|----------------------------|---------------|---------------|------------------------------|
| 1          | F/F Ind Est-2 (I/O<br>IndEst - Coca Cola)     | 2.             | DC   | LYNX      | 2024-25                    | 26            | 6             | 31                           |
| 2          | F/F DGK-3 (I/O<br>500KV DG Khan -<br>S.S.Din) | 3.5            | DC   | LYNX      | 2024-25                    | 36            | 6             | 41                           |
| 3          | F/F Makhdoom<br>Jahanian (Miranpur            | 25             | SDT  | RÀIL      | 2024-25                    | 262           | 11            | 273                          |

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|   | - Makhdoom<br>Jahanian)                                                                       |    |     | 1. (j. 40.                  |         |     |    |     |
|---|-----------------------------------------------------------------------------------------------|----|-----|-----------------------------|---------|-----|----|-----|
| 4 | F/F Liaqatpur-2 (I/O<br>Liaqatpur - A.P.E)                                                    | 3  | DC  | LYNX                        | 2024-25 | 32  | 6  | 38  |
| 5 | F/F Pull Panju (132<br>KV Dunyapur - 132<br>KV Pull Panju)                                    | 8  | DC  | RAIL                        | 2024-25 | 118 | 11 | 129 |
| 6 | F/F Kot Addu-2<br>(In/Out<br>Arrangement of Kot<br>Adu -Kot Sultan T/L<br>at 132 KV Kotadu-2) | 5  | DC  | LYNX                        | 2024-25 | 47  | 6  | 52  |
| 7 | 132 KV T/L NGPS -<br>Makhdoom Rashid                                                          | 28 | SDT | Reconductoring<br>with RAIL | 2024-25 | 194 | 11 | 205 |
| 8 | 132 KV T/L<br>Karorpacca - Mailsi                                                             | 36 | SDT | RAIL                        | 2024-25 | 370 | 11 | 381 |
| 9 | 132 KV T/L<br>Yousafwala -<br>Arifwala                                                        | 51 | SDT | Reconductoring<br>with RAIL | 2024-25 | 351 | 11 | 362 |

| Sub Total (C) | 1514 (MRs.) |
|---------------|-------------|
|---------------|-------------|

| Grand Total (A+B+C) | 5545 (MRs.) |
|---------------------|-------------|

# **STG PROJECT LIST ACHIEVEABLE CASE**

#### LIST OF PROJECTS T/LINES & GRID STATIONS FINANCIAL YEAR 1

|           |                                  |               | (Rs. In<br>Million) |
|-----------|----------------------------------|---------------|---------------------|
|           | Annaul Development pl            | an FY 2020-21 |                     |
| .Sr<br>No | Name of Work                     | Туре          | Total               |
| Grid      | Stations                         |               |                     |
| 1         | 132 KV G/S Kassowal              | New           | 39.612              |
| 2         | 132 KV G/S Khan Pur Bagga Sher   | New           | 21.711              |
| 3         | 132 KV G/S Bahawalnagar-II       | New           | 37.512              |
| 4         | 132 KV G/S Khichiwala (Unmanned) | New           | 67.024              |
| 5         | 132 KV G/S Donga Bonga           | New           | 141.731             |
| 6         | 132 KV G/S Karor Lal Eason       | Conv          | 50.665              |
| 7         | 132 KV G/S Kot Sultan            | Conv          | 57.381              |
| 8         | 132 KV G/S Macleod Gunj          | Conv          | 58.182              |
| 9         | 132 KV G/S Head Rajkan           | Conv          | 12.195              |
| 10        | 132 KV G/S Jamal Din Wali        | Ext           | 6.506               |
| 11        | 132 KV G/S Marha Khas            | Ext           | 2.187               |
| 12        | 132 KV G/S Fateh pur             | Ext           | 12.010              |
| 13        | 132 KV G/S R.Y.Khan II           | Aug           | 65.658              |
| 14        | 132 KV G/S Kabir Wala            | Aug           | 4.579               |
| 15        | 132 KV Jalal Pur Pirwala         | Aug           | 6.028               |
| 17        | 132KV G/S Bonga Hayat            | Aug           | 77.897              |
| 18        | 132KV G/S Kehroor Pacca          | Aug           | 78.185              |
| 19        | 132 KV Bahawal pur Cantt (Aug)   | Aug           | 75.982              |
| 20        | 132 KV Khan Pur (Aug)            | Aug           | 75.982              |
|           | TOTAL >>                         | •             | 891.02              |

|                | Transmission Lines                                       |             |                                |                             |           |  |  |  |  |
|----------------|----------------------------------------------------------|-------------|--------------------------------|-----------------------------|-----------|--|--|--|--|
| Sr.<br>No.     | Name of Transmission Line                                | Length (Km) | Туре                           | Conductor                   | Total     |  |  |  |  |
| 1              | 132 KV T/L Fort AbbasMaroot                              | 48.000      | SDT                            | LYNX                        | 106.410   |  |  |  |  |
| 2              | 132KV T/L Bahawalnagar-II-<br>Minchanabad-Macleod Gunj   | 64.000      | SDT                            | LYNX                        | 133.924   |  |  |  |  |
| 3              | 132 Kv T/L F/F Khan pur Bagga Sher                       | 6.900       | . DC                           | LYNX                        | 37.554    |  |  |  |  |
| 4              | 132 Kv T/L DG Khan cement factory<br>500 KV DG Khan      | 16.710      | SDT                            | LYNX                        | 36.129    |  |  |  |  |
| 5              | 500 KV Rahim Yar KhanFeroza                              | 35.500      | DC                             | RAIL                        | 116.065   |  |  |  |  |
| 6              | 500 KV Rahim Yar KhanRahim Yar<br>Khan Industrial Estate | 50.000      | DC                             | RAIL                        | 225.688   |  |  |  |  |
| 7              | 132 KV D/C T/L from Kot Addu G/S<br>Kot Sultan-Layyah    | 66.660      | DC                             | RAIL                        | 186.134   |  |  |  |  |
| 8              | 132 KV D/C T/L from Layyah G/S<br>Kehror Lal Eason       | 28.800      | SDT                            | LYNX                        | 103.648   |  |  |  |  |
| 9              | 132 KV T/L Arifwala-Hota-Bahawal<br>Nagar                | 38.800      | SC                             | Reconductoring<br>with LYNX | 149.931   |  |  |  |  |
| 10             | 132 KV T/L DG KhanShah Sadar Din                         | 27.000      | SDT                            | LYNX                        | 33.455    |  |  |  |  |
| 11             | 132 KV T/L New Multan-NGPS                               | 8.900       | DC                             | Reconductoring<br>with RAIL | 14.110    |  |  |  |  |
| 12             | 132 KV T/L F/F Donga Bonga                               | 16.900      | DC                             | LYNX                        | 160.270   |  |  |  |  |
| 13             | 132 KV SDT T/L From 132 KV G/S<br>YazmanHead Rajkan      | 26.000      | SDT                            | LYNX                        | 123.963   |  |  |  |  |
| 14             | 132 KV T/L NGPSIndustrial estate                         | 5.000       | SC                             | Reconductoring<br>with HTLS | 27.736    |  |  |  |  |
| 15             | 132 KV T/L Chowk AzamLayyah                              | 26.000      | Second<br>Circuit<br>Stringing | LYNX                        | 24.3      |  |  |  |  |
|                | TOTAL >>                                                 |             |                                |                             | 1,479.415 |  |  |  |  |
| Grand Total >> |                                                          |             |                                |                             |           |  |  |  |  |

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| Sr.<br>No. | Proposed<br>Substation | Туре | Transformer<br>Capacity<br>(MVA) | Proposed<br>Fiscal<br>Year | LCC<br>(MRs.) | FCC<br>· (MRs.) | Est. Total<br>Cost (MRs.) |  |  |
|------------|------------------------|------|----------------------------------|----------------------------|---------------|-----------------|---------------------------|--|--|
| 1          | RYK 3                  | New  | 2X40                             | Year 2                     | 338           | 28              | 366                       |  |  |
| 2          | Arifwala-2             | New  | 2x40                             | Year 2                     | 338           | 28              | 366                       |  |  |
| 3          | Rawan Road             | New  | 2x40                             | Year 2                     | 338           | 28              | 366                       |  |  |
| 4          | PAKPATTAN-2            | New  | 2x40                             | Year 2                     | 338           | 28              | 366                       |  |  |
| 5          | Gaggo                  | New  | 2x40                             | Year 2                     | 338           | 28              | 366                       |  |  |
| 6          | Dajal                  | Conv | 1x13                             | Year 2                     | 23            | 103             | 126                       |  |  |
| 7          | SurajMiani             | Ext  | 26                               | Year 2                     | 56            | 5               | 61                        |  |  |
| 8          | Sanjar Pur             | Ext  | 26                               | Year 2                     | 56            | 5               | 61                        |  |  |
| 9          | Sahiwal-III            | Ext  | 26                               | Year 2                     | 56            | 5               | 61                        |  |  |
| 10         | Bahawalnagar-2         | Ext  | 26                               | Year 2                     | 56            | 5               | 61                        |  |  |
| 11         | Burewala Old           | Ext  | 26                               | Year 2                     | 92            | 5               | 97                        |  |  |
| 12         | Jatoi                  | Aug  | 40                               | Year 2                     | 89.80         | 0.20            | 90.0                      |  |  |
| 13         | Jatoi                  | Aug  | 40                               | Year 2                     | 89.80         | 0.20            | 90.0                      |  |  |
| 14         | Kabirwala              | Aug  | 40                               | Year 2                     | 89.80         | 0.20            | 90.0                      |  |  |
| 15         | Mailsi                 | Aug  | 40                               | Year 2                     | 89.80         | 0.20            | 90.0                      |  |  |
| 16         | Sahiwal Old            | Aug  | 40                               | Year 2                     | 89.80         | 0.20            | 90.0                      |  |  |
|            | SUB TOTAL (A)          |      |                                  |                            |               |                 |                           |  |  |

#### LIST OF PROJECTS T/LINES & GRID STATIONS FINANCIAL YEAR 2

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Sr.<br>No. | Name of T/Line                                                                                          | Length<br>(km) | ength<br>(km) Type Conductor |                             | Proposed<br>Fiscal<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est.<br>Total<br>Cost<br>(MRs.) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------|----------------|------------------------------|-----------------------------|----------------------------|---------------|---------------|---------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1          | F/F RYK-3 (I/O of<br>R.Y.K-1 -<br>Sadiqbad)                                                             | 5              | DC                           | RAIL                        | Year 2                     | 60            | 4             | 65                              |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2          | F/F 132 Arifwala-2<br>(I/O of Arifwala -<br>Qaboola T/L)                                                | 3              | DC                           | RAIL                        | Year 2                     | 47            | 4             | 51                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3          | F/F132kV Rawan<br>Road (I/O of<br>Punjab Housing -<br>Man Kot)                                          | 4              | DC                           | LYNX                        | Year 2                     | 31            | 4             | 35                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4          | F/F 132KV Pak<br>Pattan-2 (Noorpur<br>- Pakpattan-2)                                                    | 27             | DC                           | Rail                        | Year 2                     | 288           | 17            | 305                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5          | F/F 132KV Gaggo<br>(In/Out<br>Arrangement of<br>Arifwala -<br>Burewala T/L at<br>132 KV Gagoo<br>Mandi) | 1              | DC                           | LYNX                        | Year 2                     | 29            | 4             | 33                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6          | F/F 132 KV Dajal<br>(132 KV Jampur -<br>132 KV Dajal))                                                  | 20             | SDT                          | LYNX                        | Year 2                     | 114           | 17            | 131                             |
| And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec | 7          | 132 KV T/L<br>Muzaffargarh -<br>Khangarh                                                                | 19             | SC                           | Reconductoring<br>with RAIL | Year 2                     | 119           | 4             | 123                             |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | 132 KV T/L<br>Khangarh -<br>Mehrakhas                                                                   | 24             | SC                           | Reconductoring<br>with RAIL | Year 2                     | 131           | 9             | 139                             |

# 132 KV T/LINES (NEW+RECONDUCTORING)

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| 9             | 132 KV T/L<br>Mehrakhas -<br>Dammarwala | 16 | SC  | Reconductoring<br>with RAIL | Year 2 | 92  | 4  | 96  |  |
|---------------|-----------------------------------------|----|-----|-----------------------------|--------|-----|----|-----|--|
| 10            | 132 KV T/L<br>Burewala New -<br>Sahuka  | 20 | SDŢ | RAIL                        | Year 2 | 291 | 17 | 308 |  |
| SUB TOTAL (B) |                                         |    |     |                             |        |     |    |     |  |

#### **132 KV CAPACITOR BANKS**

| Sr.<br>No. | NAME OF GRID<br>STATION | MVAR<br>PROPOSED | YEAR      | LCC (MRs.) | FCC (MRs.) | Est. Total Cost<br>(MRs.) |
|------------|-------------------------|------------------|-----------|------------|------------|---------------------------|
| 1          | Head Sidhnai            | 24               | Year-1    | 31.95      |            | 32                        |
| 2          | Lodhran                 | 36               | Year-1    | 37.27      | 2<br>2     | 37                        |
|            |                         | SUB              | ΓΟΤΑL (C) |            |            | 69                        |

#### CONVERSION OF ISO BAYS INTO LINE BAYS

| Sr.<br>No. Name of Grid Station |                             | Proposed Year | LCC (MRs.) | FCC (MRs.) | Est. Total<br>Cost (MRs.) |
|---------------------------------|-----------------------------|---------------|------------|------------|---------------------------|
| 1                               | 132KV Jalal Pur Pir<br>Wala | Year 2        | 9.7        | -          | 9.7                       |
| 2                               | 132KV Mahra Khas            | Year 2        | 9.7        |            | 9.7                       |
| 3                               | 132KV Jattoi                | Year 2        | 9.7        | -          | 9.7                       |

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| 4  | 132KV Jattoi                 | Year 2        | 9.7 | - | 9.7 |
|----|------------------------------|---------------|-----|---|-----|
| 5  | 132KV K.P.Sadat              | Year 2        | 9.7 | - | 9.7 |
| 6  | 132KV Jamal Din Wali         | Year 2        | 9.7 | - | 9.7 |
| 7  | 132KV Mian Wali<br>Qurashain | Year 2        | 9.7 | - | 9.7 |
| 8  | 66KV Uch Sharif              | Year 2        | 9.7 | - | 9.7 |
| 9  | Banga Hayat                  | Year 2        | 9.7 | - | 9.7 |
| 10 | Sahuka                       | Year 2        | 9.7 | - | 9.7 |
| 11 | Head Sidnai                  | Year 2        | 9.7 | - | 9.7 |
| 12 | Hoota                        | Year 2        | 9.7 | - | 9.7 |
| 13 | Makhdoom Pur                 | Year 2        | 9.7 | - | 9.7 |
| 14 | Noor Pur                     | Year 2        | 9.7 |   | 9.7 |
| 15 | Pak Pattan                   | Year 2        | 9.7 | - | 9.7 |
| 16 | Mailsi                       | Year 2        | 9.7 | - | 9.7 |
| 17 | Karam Pur                    | Year 2        | 9.7 | - | 9.7 |
| 18 | Dunya Pur                    | Year 2        | 9.7 | _ | 9.7 |
| 19 | K.P Tamewali                 | Year 2        | 9.7 | - | 9.7 |
| 20 | Chishtian                    | . Year 2      | 9.7 | - | 9.7 |
| •  |                              | SUB TOTAL (D) |     |   | 194 |

#### EXTENSION OF 11KV CONTROL HOUSE BUILDING

| Sr.<br>No. | Name of<br>Grid<br>Station | Remarks                                                                                   | Proposed<br>Year | LCC (MRs.) | FCC<br>(MRs.) | Est.<br>Total<br>Cost<br>(MRs.) |
|------------|----------------------------|-------------------------------------------------------------------------------------------|------------------|------------|---------------|---------------------------------|
| 1          | 132KV<br>Kabirwala         | Extension of 11KV switch<br>room where T-3 Power<br>Transformer panel board<br>installed. | Year 2           | 2.2        | -             | 2.2                             |
| 2          | 132KV                      | Extension of existing 11KV                                                                | Year 2           | 2.2        |               | 2.2                             |

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|    |                              | SUB TOTAL (E)                                                                                     |        |     |   | 24.2 |
|----|------------------------------|---------------------------------------------------------------------------------------------------|--------|-----|---|------|
| 11 | 132KV<br>Harappa             | Extension required to<br>accommodate the Panel<br>Board on Augmentation of<br>PTF.                | Year 2 | 2.2 |   | 2.2  |
| 10 | 132KV<br>Kacha Khu           | Extension required to<br>accommodate the Panel<br>Board on Augmentation of<br>PTF.                | Year 2 | 2.2 |   | 2.2  |
| 9  | 132KV<br>Garah<br>More       | Extension required to<br>accommodate the Panel<br>Board on Augmentation of<br>PTF.                | Year 2 | 2.2 |   | 2.2  |
| 8  | 132KV<br>Khanewal            | Extension required to<br>accommodate the Panel<br>Board on addition of 4 <sup>th</sup> PTF<br>Bay | Year 2 | 2.2 |   | 2.2  |
| 7  | 132KV<br>Arif Wala           | Extension required to<br>accommodate the Panel<br>Board on addition of 4 <sup>th</sup> PTF<br>Bay | Year 2 | 2.2 | - | 2.2  |
| 6  | 132KV<br>Pakpattan           | Extension required to<br>accommodate the Panel<br>Board on addition of 4 <sup>th</sup> PTF<br>Bay | Year 2 | 2.2 |   | 2.2  |
| 5  | 132KV<br>Rahim Yar<br>Khan-I | 11KV control room (T-4)                                                                           | Year 2 | 2.2 | _ | 2.2  |
| 4  | 132KV<br>Ahmad<br>Pur East   | 11KV control room (T-4)                                                                           | Year 2 | 2.2 | - | 2.2  |
| 3  | 132KV Kot<br>Addu            | Extension of existing 11KV control house building                                                 | Year 2 | 2.2 |   | 2.2  |
|    | Basti<br>Malook              | switch room                                                                                       |        |     |   |      |

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# TWIN BUNDLING OF 132KV BUS BAR

| Sr.<br>No. | Name of Grid Station | Proposed Year | LCC (MRs.) | FCC (MRs.) | Est. Total Cost<br>(MRs.) |     |
|------------|----------------------|---------------|------------|------------|---------------------------|-----|
|            |                      |               |            |            |                           | - L |

| 1  | 132KV Lal Sohanra | Year 2 | 4.7   | -        | 4.7 |  |  |  |  |  |
|----|-------------------|--------|-------|----------|-----|--|--|--|--|--|
| 2  | 132KV Kot Addu    | Year 2 | 4.7   | -        | 4.7 |  |  |  |  |  |
| 3  | 132KV Sadiq Abad  | Year 2 | 4.7   | -        | 4.7 |  |  |  |  |  |
| 4  | 132KV Lodhran     | Year 2 | 4.7   | -        | 4.7 |  |  |  |  |  |
| 5  | 132KV D.G.Khan-I  | Year 2 | 4.7   | -        | 4.7 |  |  |  |  |  |
| 6  | 132KV R.Y.Khan-I  | Year 2 | 4.7   | _        | 4.7 |  |  |  |  |  |
| 7  | 132KV Arif Wala   | Year 2 | 4.7   | · _      | 4.7 |  |  |  |  |  |
| 8  | 132KV Burewala    | Year 2 | · 4.7 | -        | 4.7 |  |  |  |  |  |
| 9  | 132KV Khanewal    | Year 2 | 4.7   | -        | 4.7 |  |  |  |  |  |
| 10 | 132KV Qadirabad   | Year 2 | 4.7   | <u> </u> | 4.7 |  |  |  |  |  |
| 11 | 132KV Sahiwal New | Year 2 | 4.7   | -        | 4.7 |  |  |  |  |  |
|    | SUB TOTAL (F)     |        |       |          |     |  |  |  |  |  |

# TOTAL (A+B+C+D+E+F)

4371.9

| 1   | Machiwal                                                      | New | 2X40 | Year 3 | 360   | 30   | 390 |  |  |  |
|-----|---------------------------------------------------------------|-----|------|--------|-------|------|-----|--|--|--|
| . 2 | Lodhran-2                                                     | New | 2x40 | Year 3 | 360   | 30   | 390 |  |  |  |
| 3   | latoi-2                                                       | New | 2x40 | Year 3 | 360   | 30   | 390 |  |  |  |
| 4   | P.Ghaib 132KV                                                 | New | 1x40 | Year 3 | 244   | 24   | 268 |  |  |  |
| 5   | Shah Jamal                                                    | New | 1x40 | Year 3 | 244   | 24   | 268 |  |  |  |
| 6   | Bosan Road                                                    | Ext | 40   | Year 3 | 117   | 6    | 124 |  |  |  |
| 7   | Qasimpur                                                      | Ext | 40   | Year 3 | 117   | 6    | 124 |  |  |  |
| 8   | Bahawalpur Cantt                                              | Ext | 26   | Year 3 | 60    | 5    | 65  |  |  |  |
| 9   | MESCO                                                         | Ext | 40   | Year 3 | 117   | 6    | 124 |  |  |  |
| 10  | Vehari Road Multan                                            | Ext | 40   | Year 3 | 117   | 6    | 124 |  |  |  |
| 11  | Khichiwala                                                    | Aug | 40   | Year 3 | 95.64 | 0.21 | 96  |  |  |  |
| 12  | Vehari                                                        | Aug | 40   | Year 3 | 95.64 | 0.21 | 96  |  |  |  |
| 13  | Khichiwala                                                    | Aug | 40   | Year 3 | 95.64 | 0.21 | 96  |  |  |  |
| 14  | Fateh Pur                                                     | Aug | 40   | Year 3 | 95.64 | 0.21 | 96  |  |  |  |
| 15  | Lavvah                                                        | Aug | 40   | Year 3 | 95.64 | 0.21 | 96  |  |  |  |
| 16  | Kacha Khu                                                     | Aug | 40   | Year 3 | 95.64 | 0.21 | 96  |  |  |  |
|     | Kacha Khu   Aug   40   Year 3   95.64   0.21<br>SUB TOTAL (A) |     |      |        |       |      |     |  |  |  |

#### LIST OF PROJECTS T/LINES & GRID STATIONS FINANCIAL YEAR 3

v. C. S.

| Sr. Name of T/Line L |                                                                  | Length<br>(km) | Туре | Conductor                   | Proposed<br>Fiscal<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est.<br>Total<br>Cost<br>(MRs.) |  |  |  |
|----------------------|------------------------------------------------------------------|----------------|------|-----------------------------|----------------------------|---------------|---------------|---------------------------------|--|--|--|
| 1                    | F/F Machiwal (I/O of<br>Vehari 220 KV -<br>Burewala)             | 1              | DC   | LYNX                        | Year 3                     | 13            | 5             | 17                              |  |  |  |
| 2                    | F/F Lodhran - 2 (I/O<br>220/132 KV BWP -<br>Lodhran)             | 4              | DC   | RAIL                        | Year 3                     | 52            | 5             | 57                              |  |  |  |
| 3                    | F/FJatoi-2 (Jatoi -<br>Jatoi-2 - Alipur)                         | 36             | SDT  | RAIL                        | Year 3                     | 310           | 9             | 319                             |  |  |  |
| 4                    | F/F P.Ghaib 132 KV<br>(I/O 220 KV NGPS -<br>132 Vehari Road)     | 2              | DC   | RAIL                        | Year 3                     | 32            | 5             | 37                              |  |  |  |
| 5                    | F/F Shah Jamal (I/O<br>220 KV Muzaffargarh<br>- 132 KV D.G.Khan) | 12             | DC   | LYNX                        | Year 3                     | 95            | 9             | 104                             |  |  |  |
| 6                    | 132 KV T/L KAPCO -<br>Gujrat -<br>Muzaffargarh                   | 60             | DC   | Reconductoring<br>with RAIL | Year 3                     | 59            |               | 59                              |  |  |  |
| 7                    | 132 KV T/L Yazman -<br>Maroot                                    | 66             | SDT  | RAIL                        | Year 3                     | 544           | 9             | 553                             |  |  |  |
|                      |                                                                  | SUB TOTAL (B)  |      |                             |                            |               |               |                                 |  |  |  |

# 132 KV T/LINES (NEW+RECONDUCTORING)

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#### **132 KV CAPACITOR BANKS**

| Sr. No. | NAME OF GRID<br>STATION | MVAR<br>PROPOSED | YEAR   | LCC (MRs.) | FCC (MRs.) | Est. Total Cost<br>(MRs.) |  |  |  |
|---------|-------------------------|------------------|--------|------------|------------|---------------------------|--|--|--|
| 1       | Ahmed Pur East          | 24               | Year-2 | 31.95      | -          | 32                        |  |  |  |
| 2       | ARIFWALA                | 36               | Year-2 | 37.27      | -          | 37                        |  |  |  |
|         | SUB TOTAL (C)           |                  |        |            |            |                           |  |  |  |

#### EXTENSION OF 11 KV CONTROL HOUSE BUILDING

| Sr.<br>No. | Name of<br>Grid<br>Station      | Remarks                                                                   | Proposed<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est. Total<br>Cost<br>(MRs.) |
|------------|---------------------------------|---------------------------------------------------------------------------|------------------|---------------|---------------|------------------------------|
| 1          | 132KV<br>Qasim<br>Pur<br>Multan | Extension of existing 11KV switch room.                                   | Year 3           | 2.3           | -             | 2.3                          |
| 2          | 132KV<br>Chowk<br>Munda         | Extension of existing 11KV control house building                         | Year 3           | 2.3           | -             | 2.3                          |
| 3          | 132KV<br>Dunyapur               | Extension required to accommodate the panel board on Augmentation of PTF. | Year 3           | 2.3           | -             | 2.3                          |
| 4          | 132KV<br>Sahiwal<br>New         | Extension required to accommodate the panel board on Augmentation of PTF. | Year 3           | 2.3           | -             | 2.3                          |
| 5          | 132KV<br>K.P<br>Tamewali        | Extension required to accommodate the panel board on Augmentation of PTF. | Year 3           | 2.3           | -             | 2.3                          |
| 6          | 132KV<br>Mailsi                 | Extension required to accommodate the panel board on Augmentation of PTF. | Year 3           | 2.3           | -             | 2.3                          |

|   | SUB TOTAL (D)                     |                                                   |        |     |   |     |  |
|---|-----------------------------------|---------------------------------------------------|--------|-----|---|-----|--|
| 9 | 132KV<br>Rahim<br>Yar Khan-<br>II | 11KV control room (T-2)                           | Year 3 | 2.3 | - | 2.3 |  |
| 8 | 132KV<br>Khan Pur                 | 11KV control room (T-1)                           | Year 3 | 2.3 | - | 2.3 |  |
| 7 | 66KV<br>Nawan<br>Kot              | Extension of existing 11KV control house building | Year 3 | 2.3 | - | 2.3 |  |

#### TWIN BUNDLING OF 132KV BUS BAR

| Sr. No. | Name of Grid Station | Proposed Year | LCC (MRs.) | FCC (MRs.) | Est. Total Cost<br>(MRs.) |
|---------|----------------------|---------------|------------|------------|---------------------------|
| 1       | 132KV A.P.East       | Year 3        | 5.0        |            | 5.0                       |
| 2       | 132KV Feroza         | Year 3        | 5.0        | -          | 5.0                       |
| 3       | 132KV Khan Pur       | Year 3        | 5.0        | -          | 5.0                       |
| 4       | 132KV PGHS Multan    | Year 3        | 5.0        | -          | 5.0                       |
| 5       | 132KV Yazman         | Year 3        | 5.0        |            | 5.0                       |
| 6       | 132KV Layyah         | Year 3        | 5.0        | -          | 5.0                       |
|         | 30                   |               |            |            |                           |

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|--------------------------------------------|--------|
| SUB TOTAL (A+B+C+D+E)                      | 4105.7 |
|                                            |        |

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| Sr.<br>No. | Proposed Substation | Туре | Transformer<br>Capacity<br>(MVA) | Proposed<br>Fiscal Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est.<br>Total<br>Cost<br>(MRs.) |
|------------|---------------------|------|----------------------------------|-------------------------|---------------|---------------|---------------------------------|
| 1          | Khanewal-2          | New  | 2X40                             | Year 4                  | 383           | 32            | 415                             |
| 2          | Muzaggargarh-2      | New  | 2x40                             | Year 4                  | 383           | 32            | 415                             |
| 3          | Vehari-2            | New  | 2x40                             | Year 4                  | 383           | 32            | 415                             |
| 4          | Sadiqabad-2         | New  | 2x40                             | Year 4                  | 383           | 32            | 415                             |
| 5          | Kot Mithan          | New  | 1x40                             | Year 4                  | 260           | 26            | 286                             |
| 6          | Darawar More        | New  | 1x40                             | Year 4                  | 260           | 26            | 286                             |
| 7          | Kot Khalifa         | Conv | 2x13, 1x26                       | Year 4                  | 37            | 218           | 255                             |
| 8          | Hasilpur            | Ext  | 26                               | Year 4                  | 64            | 6             | 69                              |
| 9          | Khanbela            | Ext  | 26                               | Year 4                  | 64            | 6             | 69                              |
| 10         | NawazabadBhong      | Ext  | 26                               | Year 4                  | 64            | 6             | 69                              |
| 11         | Fort Mannro         | Ext  | 13                               | Year 4                  | 39            | 6             | 44                              |
| 12         | Khanpur             | Aug  | 40                               | Year 4                  | 101.85        | 0.23          | 102                             |
| 13         | Dammarwala          | Aug  | 40                               | Year 4                  | 101.85        | 0.23          | 102                             |
| . 14       | Alipur              | Aug  | 40                               | Year 4                  | 101.85        | 0.23          | 102                             |
| 15         | Kot Addu            | Aug  | 40                               | Year 4                  | 101.85        | 0.23          | 102                             |
| 16         | Feroza              | Aug  | 40                               | Year 4                  | 101.85        | 0.23          | 102                             |
| 17         | Karam Pur           | Aug  | 40                               | Year 4                  | 101.85        | 0.23          | 102                             |
|            |                     | SUB  | TOTAL (A)                        |                         |               |               | 3351                            |

#### LIST OF PROJECTS T/LINES & GRID STATIONS FINANCIAL YEAR 4

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| Sr.<br>No. | Name of T/Line                                                          | Length<br>(km) | Туре              | Conductor                          | Proposed<br>Fiscal<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est.<br>Total<br>Cost<br>(MRs.) |
|------------|-------------------------------------------------------------------------|----------------|-------------------|------------------------------------|----------------------------|---------------|---------------|---------------------------------|
| 1          | F/F Khanewal-2<br>(I/O of NGPS -<br>Khanewal)                           | 1              | DC                | LYNX                               | Year 4                     | 32            | 5             | 37                              |
| 2          | F/F Muzaffargarh-<br>2 (220/132 KV<br>Muzaffargarh -<br>Muzaffargarh-2) | 5              | SDT               | RAIL                               | Year 4                     | 66            | 5             | 71                              |
| 3          | F/F Vehari-2<br>(Vehari 220/132<br>Kv - Vehari-2)                       | 8              | SDT               | RAIL                               | Year 4                     | 93            | 5             | 98                              |
| 4          | F/F Kot Mithan<br>(I/O Rjanpur -<br>Rojhan)                             | 6              | DC                | LYNX                               | Year 4                     | 65            | 5             | 70                              |
| 5          | F/F Drawar More<br>(132 KV Head<br>Rajkan - 132 KV<br>Drawar More)      | 24             | DC                | RAIL                               | Year 4                     | 314           | 10            | 324                             |
| 6          | F/F 132 KV Kot<br>khalifa (I/O of APE<br>- Liaqatpur)                   | 7              | DC                | LYNX                               | Year 4                     | 64            | 5             | 69                              |
| 7          | 132 KV T/L<br>Haroonabad -<br>Faqirwali -<br>Faortabbas -<br>Maroot     | 86             | Second<br>Circuit | 2nd Line<br>Stringing<br>With LYNX | Year 4                     | 164           |               | 164                             |
| 8          | I/O of Kotchutta -<br>Guddu 132 KV T/L<br>at Fazilpur                   | 0.5            | DC                | LYNX                               | Year 4                     | 22            |               | 22                              |
| 9          | I/O of Kotchutta -<br>Guddu 132 KV T/L<br>at Rajanpur                   | 0.5            | DC                | LYNX                               | Year 4                     | 22            | -<br>-<br>-   | 22                              |
| 10         | I/O of Kotchutta -<br>Guddu 132 KV T/L<br>at Rujhan                     | 0.5            | DC                | LYNX                               | Year 4                     | 22            | -             | 22                              |
| 11         | I/O of RYK<br>500/220/132 KV -<br>132 KV R.Y.K-1 T/L                    | 3              | DC                | RAIL                               | Year 4                     | 62            | 5             | 67                              |

# 132 KV T/LINES (NEW+RECONDUCTORING)

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| 12 | Arrangement of<br>Sadiqabad - J.D.W<br>Power Plant T/L at<br>132 KV Sadiqabad-<br>2) | 2 | DC | RAIL | Year 2 | 32 | 5 | 37 |
|----|--------------------------------------------------------------------------------------|---|----|------|--------|----|---|----|
|    | F/F Sadiqabad-2<br>(In/Out<br>Arrangement of                                         |   |    |      |        |    |   |    |

#### **132 KV CAPACITOR BANKS**

| Sr.<br>No. | NAME OF<br>GRID<br>STATION | MVAR<br>PROPOSED | YEAR     | LCC (MRs.) | FCC (MRs.) | Est. Total Cost<br>(MRs.) |
|------------|----------------------------|------------------|----------|------------|------------|---------------------------|
| 1          | Alipur                     | 36               | Year-3   | 37.27      | -          | 37                        |
| 2          | Burewala Old               | 24               | Year-3   | 34.03      | -          | 34                        |
|            |                            | SUB 1            | OTAL (C) |            |            | 71                        |

# EXTENSION OF 11 KV CONTROL HOUSE BUILDING

| Sr.<br>No. | Name of<br>Grid<br>Station     | Remarks                                                                                     | Proposed<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est. Total<br>Cost<br>(MRs.) |
|------------|--------------------------------|---------------------------------------------------------------------------------------------|------------------|---------------|---------------|------------------------------|
| 1          | 132KV<br>Ludden                | Extension required to<br>accommodate the panel<br>board on Augmentation of<br>PTF.          | Year 4           | 2.5           |               | 2.5                          |
| 2          | 132KV<br>Karam<br>Pur          | Extension required to<br>accommodate the panel<br>board on Bifurcation of 11<br>KV Feeders. | Year 4           | 2.5           | -             | 2.5                          |
| 3          | 132KV<br>Jalal Pur<br>Pir Wala | Extension with new control<br>room for T-3 Power<br>Transformer                             | Year 4           | 2.5           | -             | 2.5                          |

| 1  | Kot Samaba      | New   | 2X40    | Year 5 | 408    | 34   | 442         |
|----|-----------------|-------|---------|--------|--------|------|-------------|
| 2  | Bahawalpur-2    | New   | 2x40 ·  | Year 5 | 408    | · 34 | 442         |
| 3  | Array Wahan     | New   | 2x40    | Year 5 | 408    | 34   | 442         |
| 4  | Sadigabad-2     | New   | 2x40    | Year 5 | 408    | 34   | 442         |
| 5  | Lavvah-2        | New   | 1x40    | Year 5 |        | 28   | 304         |
| 6  | Daial           | Fxt   | 13      | Year 5 | 41     | 6    | 47          |
| 7  | Noor Ahmad Wali | Fxt   | 13      | Year 5 | 41     | 6    | 47          |
| 8  | Bonga Havat     | Fxt   | 26      | Year 5 | 68     | 6    | 74          |
| 9  | Hoota           | Ext   | 26      | Year 5 | 68     | 6    | 74          |
| 10 | Oadirabad       | Ext   | 26      | Year 5 | 68     | 6    | 74          |
| 11 | Chishtian       | Δυσ   | 40      | Voar 5 | 108.47 | 0.24 | 109         |
| 12 | Lal Sohanra     | Aug   | 40      | Vear 5 | 108.47 | 0.24 | 109         |
| 13 | Karorpacca      | Aug   | 40      | Vear 5 | 108.47 | 0.24 | 109         |
| 14 |                 | Aug   | 40      | Voor E | 100.47 | 0.24 | 109         |
| 15 | Mabrakhaa       | Aug   | 40      | Vera 5 | 108.47 | 0.24 | 109         |
| 16 | Mahrakhas       | Aug   | 40      | rear 5 | 108.47 | 0.24 | 109         |
|    | IVIETI AKTAS    | SUB T | TAL (A) | Tedf 5 | 108.47 | 0.24 | <b>3040</b> |

#### LIST OF PROJECTS T/LINES & GRID STATIONS FINANCIAL YEAR 5

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| 4 | 132KV<br>Makhdum<br>Rashid | Extension of existing 11KV switch room.           | Year 4 | 2.5 | - | 2.5 |  |  |
|---|----------------------------|---------------------------------------------------|--------|-----|---|-----|--|--|
| 5 | 132KV<br>Damar<br>Wala     | Extension of existing 11KV control house building | Year 4 | 2.5 | - | 2.5 |  |  |
|   | SUB TOTAL (D)              |                                                   |        |     |   |     |  |  |

#### TWIN BUNDLING OF 132KV BUS BAR

| Sr.<br>No. | Name of Grid<br>Station | Proposed Year | LCC (MRs.) | FCC (MRs.) | Est. Total<br>Cost (MRs.) |  |  |
|------------|-------------------------|---------------|------------|------------|---------------------------|--|--|
| 1          | 132KV Choubara          | Year 4        | 5.3        | -          | 5.3                       |  |  |
| 2          | 132KV Chowk<br>Munda    | Year 4        | 5.3        | ~          | 5.3                       |  |  |
| 3          | 132KV Mubarak Pur       | Year 4        | 5.3        | -          | 5.3                       |  |  |
|            | SUB TOTAL (E)           |               |            |            |                           |  |  |

|         | SUB TOTAL (A+B+C+D+E) | 4453.4                                 |
|---------|-----------------------|----------------------------------------|
| <u></u> |                       | ······································ |

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| Sr.<br>No. | Name of T/Line                                                                                               | Length<br>(km) | Туре  | Conductor | Proposed<br>Fiscal<br>Year | LCC<br>(MRs.) | FCC<br>(MRs.) | Est.<br>Total<br>Cost<br>(MRs.) |       |
|------------|--------------------------------------------------------------------------------------------------------------|----------------|-------|-----------|----------------------------|---------------|---------------|---------------------------------|-------|
| 1          | F/F Kot Samaba (I/O<br>500KV R.Y.K - 132 KV<br>R.Y.K)                                                        | 2              | DC    | LYNX      | Year 5                     | 44            | 5             | 49                              |       |
| 2          | F/F Bahawalpur-2 (I/O<br>B.U.Jadid - Bahawalpur)                                                             | 0.5            | DC    | LYNX      | Year 5                     | 24            | -             | 24                              |       |
| 3          | F/F Array Wahan (I/O of<br>Karorpacca - Mailsi)                                                              | 3              | DC    | LYNX      | Year 5                     | 30            | 5             | 35                              |       |
| 4          | F/F 132 KV Layyah-2 (I/O<br>132 KV Layyah-132 KV<br>Karoor L.E T/L)                                          | 2              | DC    | LYNX      | Year 5                     | 44            | 5             | 49                              |       |
| 5          | 132 KV T/L Lal Sohanra -<br>QA Solar                                                                         | 26.6           | SDT   | RAIL      | Year 5                     | 262           | 10            | 272                             |       |
| 6          | 132 KV T/L Lal Sohanra -<br>Karorpacca                                                                       | 22             | SDT   | RAIL      | Year 5                     | 218           | 10            | 229                             |       |
| 7          | 132 KV T/L Qasimpur -<br>Shujabad                                                                            | 35             | SDT   | RAIL      | Year 5                     | 344           | 10            | 354                             |       |
| 8          | 132 KV T/L Qasimpur -<br>BastiMalook                                                                         | 35             | SDT   | RAIL      | Year 5                     | 344           | 10            | 354                             |       |
| 9          | F/F 132 KV Mian Channu-<br>2 (In/Out Arrangement<br>of Khanewal -Chak-83 T/L<br>at 132 KV Mian Channu-<br>2) | 2              | DC    | LYNX      | Year 3                     | 34            | 5             | . 39                            |       |
|            |                                                                                                              | SUB            | TOTAL | (B)       |                            |               |               | 1404                            | ;<br> |

# 132 KV T/LINES (NEW+RECONDUCTORING)

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#### **132 KV CAPACITOR BANKS**

| Sr.<br>No. | NAME OF<br>GRID<br>STATION | MVAR<br>PROPOSED | YEAR     | LCC (MRs.) | FCC (MRs.) | Est. Total Cost<br>(MRs.) |
|------------|----------------------------|------------------|----------|------------|------------|---------------------------|
| 1          | Faqirwali                  | 24               | Year-4   | 36.24      | -          | 36                        |
| 2          | Mailsi                     | 48               | Year-4   | 45.37      | · -        | 45                        |
|            | I                          | SUB T            | OTAL (C) | 1          | · .        | 82                        |

# EXTENSION OF 11 KV CONTROL HOUSE BUILDING

| Sr.<br>No. | Name of Grid<br>Station | Remarks                     | Proposed<br>Year | LCC (MRs.) | FCC (MRs.) | Est. Total<br>Cost<br>(MRs.) |
|------------|-------------------------|-----------------------------|------------------|------------|------------|------------------------------|
| 1          | 132KV Jamal<br>Din Wali | 11KV control room (T-<br>2) | Year 5           | 2.7        |            | 2.7                          |
|            |                         | SUB TOTAL                   | (D)              |            |            | 2.7                          |

|  | TOTAL (A+B+C+D) | 4528.7 |
|--|-----------------|--------|
|  |                 |        |

# ANNEXURE-9 11 KV FEEDER LIST

# **11 KV FEEDER LIST BEST CASE**

# HT Feeders Planned for 05 years - BEST CASE

| Sr.<br>No.     | 11KV Feeder /<br>Proposal | Grid Station                              | Circle   | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|----------------|---------------------------|-------------------------------------------|----------|-----------------------|-----------------|--------------|------------------------|-----------------------|
| 1              | Akbar Shah                | 132 KV Karam Pur                          | Vehari   | 190                   | 64.0            | 44.6         | 1.589                  | 7.80                  |
| 2              | Zakheera                  | 132 KV Sama Sata                          | B/Pur    | 260                   | 67.8            | 21.60        | 1.440                  | 7.23                  |
| 3              | New Firdous               | 132 KV Shaikh Fazil                       | Sahiwal  | 380                   | 99.4            | 46.70        | 4.278                  | 6.19                  |
| 4              | Niaz Pur                  | 132 KV Mailsi                             | Vehari   | 400                   | 118.6           | 26.80        | 1.950                  | 5.53                  |
| 5              | Kot Muhammad              | 132 KV Chichawatni                        | Sahiwal  | 300                   | 71.9            | 35.80        | 2.642                  | 5.47                  |
| 6              | Shah Kot                  | 66 KV 83/12-L                             | Sahiwal  | 380                   | 74.9            | 36.20        | 3.118                  | 4.88                  |
| *<br>• •7* ••  | Tube Well                 | 132 KV K.P.Tamewali                       | B/Pur    | 400                   | 123.0           | 34.60        | 3.175                  | 3.53                  |
| 8              | Colony                    | 132 KV Lodhran                            | B/Pur    | 380                   | 25.3            | 8.50         | 1.475                  | 3.12                  |
| <sup>°</sup> 9 | Aalam Pur                 | 132 KV Mailsi                             | Vehari   | 380                   | 125.9           | 45.4         | 4.381                  | 17.02                 |
| 10             | Iqbal Nagar               | 132 KV Vehari Road & 132 KV<br>Qasim Bagh | Multan   | 320                   | 8.1             | 5            | 2.278                  | 16.98                 |
| 11             | Arif Pura                 | 132 KV Vehari Road & 132 KV<br>Qasim Bagh | Multan   | 340                   | 5.6             | 3.00         | 2.278                  | 16.97                 |
| 12             | New Mumtaz Abad           | 132 KV Vehari Road & 132 KV<br>Qasim Bagh | Multan   | 290                   | 6.9             | 2.00         | 2.278                  | 13.99                 |
| 13             | Gaggo                     | 132 KV Burewala                           | Vehari   | 390                   | 96.5            | 30.00        | 2.535                  | 11.9                  |
| 14             | B&R                       | 132 KV Burewala                           | Vehari   | 380                   | 79.5            | 19.0         | 1.901                  | 29.00                 |
| 15             | Tufail Shaheed            | 132 KV Burewala                           | Vehari   | 390                   | 82.5            | 50.80        | 3.634                  | 27.07                 |
| 16             | Shah Faisal               | 132 KV Burewala                           | Vehari   | 390                   | 58.3            | 29.90        | 5.788                  | 27.00                 |
| 17             | Raheem Shah               | 132 KV Jahanian                           | Khanewal | 400                   | 133.2           | 60.10        | 1.872                  | 22.00                 |
| 18             | City-l                    | 132 KV Vehari                             | Vehari   | 380                   | 17.1            | 5.50         | 1.161                  | 21.00                 |

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| Sr  | 11KV Feeder /                | C                                          | 4       | Max Load | l ength | % age | A.E.           | % age        |
|-----|------------------------------|--------------------------------------------|---------|----------|---------|-------|----------------|--------------|
| No. | Proposal                     | Grid Station                               | Circle  | Recorded | (K.M)   | V.D   | Loss<br>(MKWH) | A.E.<br>Loss |
| 19  | Umer Pur                     | 132 KV Sahuka                              | Vehari  | 380      | 78.4    | 27.90 | 2.471          | 20.91        |
| 20  | Jinnah Town                  | 132 KV Harappa                             | Sahiwal | 380      | 145.3   | 30.50 | 2.368          | 20.00        |
| 21  | Al-Rahman                    | 66 KV Chak-83/12-L                         | Vehari  | 260      | 75.2    | 20.10 | 1.979          | 20.00        |
| 22  | Rasool Pur                   | 132 KV Shaikh Fazil                        | Vehari  | 380      | 166.4   | 32.10 | 2.291          | 19.50        |
| 23  | Magar                        | 132 KV Arif Wala                           | Sahiwal | 390      | 73.2    | 35.80 | 3.156          | 19.49        |
| 24  | Al-Madni                     | 132 KV Arif Wala                           | Sahiwal | 390      | 70.0    | 42.60 | 3.600          |              |
| 25  | Ali Sher                     | 132 KV Dunya Pur                           | B/Pur   | 380      | 100.4   | 20.30 | 2.627          | 19.06        |
| 26  | Al-Abbas                     | 132 KV Sahuka                              | Vehari  | 380      | 99.2    | 50.0  | 4.059          | 19.00        |
| 27  | Fareed                       | 132 KV Shaikh Fazil                        | Vehari  | 390      | 79.1    | 39.60 | 6.801          | 18.93        |
| 28  | Dewan Sahib                  | 132 KV BTM (Burewala)                      | Vehari  | 380      | 102.4   | 23.40 | 1.719          | 18.00        |
| 29  | Firdous                      | 132 KV Ludden                              | Vehari  | 400      | 95.7    | 36.70 | 3.022          | 17.12        |
| 30  | Gunj Shakar                  | 220 KV Yousaf Wala<br>& 132 KV Sahiwal Old | Sahiwal | 320      | 109.6   | 57.60 | 4.922          | 17.00        |
| 31  | Sultan Salah-Uddin           | 66 KV Chak-83/12-L                         | Vehari  | 380      | 80.6    | 36.70 | 3.833          | 17.00        |
| 32  | Bonga Hayat                  | 132 KV Pak Pattan                          | Sahiwal | 380      | 59.0    | 19.00 | 3.962          | 17.00        |
| 33  | City Chowk Sarwar<br>Shaheed | 132 KV Chowk Sarwar<br>Shaheed             | M/Garh  | 380      | 124.6   | 28.00 | 1.841          | 16.71        |
| 34  | Baghdad                      | 132 KV Baghdad<br>-UI-Jadid                | B/Pur   | 390      | 41.2 &  | 11    | 1.620          | 16.42        |
| 35  | Tibba Badar                  | 132 KV Baghdad<br>-Ul-Jadid                | B/Pur   | 370      | 21.6    | 22.00 | 4.132          | 16.10        |
| 36  | Chak-67 Section              | 132 KV Arif Wala                           | Sahiwal | 400      | 86.2    | 30.00 | 2.687          | 16.00        |
| 37  | Chan Peer                    | 132 KV Pak Pattan                          | Sahiwal | 389      | 61.3    | 31.00 | 2.918          | 15.56        |

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|------------|---------------------------|----------------------------------------------|------------|-----------------------|-----------------|--------------------|------------------------|-----------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                                 | Circle     | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D       | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|            |                           |                                              |            |                       |                 |                    |                        |                       |
| 38         | Faisal Town               | 220 KV Vehari &<br>132 KV Vehari             | Vehari     | 400                   | 20.8            | 9.0                | 1.707                  | 15.37                 |
| 39         | Aziz Makki                | 132 KV Pak Pattan                            | Sahiwal    | 380                   | 10.6            | 5.00               | 1.203                  | 15.17                 |
| 40         | Machiwal                  | 132 KV Vehari                                | Vehari     | 390                   | 66.0            | 29.00              | 2.343                  | 15.00                 |
| 41         | Benazir                   | 132 KV Lodhran & 132 KV<br>Galay Wala        | B/Pur      | 380                   | 107.5           | 22                 | 5.326                  | 15.00                 |
| 42         | Salsadar                  |                                              | B/Pur      | 361                   | 97.9            | 45.00              | 5.326                  | 15.00                 |
| 43         | Scarp-9                   | 132 KV R.Y.Khan-II                           | R.Y.Khan   | 400                   | 167.9           | 47.00              | 2.061                  | 14.00                 |
| 44         | Bagho-Bahar               | 132 KV Khan Pur                              | R.Y.Khan   | 390                   | 71.7            | 13.00              | 1.919                  | 14.00                 |
| 45         | Fateh Pur Kamal           | 132 KV Khan Bela                             | R.Y.Khan   | 400                   | 225.9           | 49.00 <sub>.</sub> | 2.061                  | 13.96                 |
| 46         | City                      | 132 KV Pak Pattan                            | Sahiwal    | 380                   | 10.8            | 4.00               | 0.965                  | 13.92                 |
| 47         | Dhanote                   | 132 KV Lodhran                               | B/Pur      | 380                   | 86.9            | 26.00              | 2.625                  | 13.67                 |
| 48         | Mahmood Kot               | 132 KV Khanewal Road & 132<br>KV Buch Villas | Multan     | 390                   | 128.5           | 40.00              | 2.576                  | 13.28                 |
| 49         | Abdullah Shah             | 132 KV Sahiwal-III                           | Sahiwal    | 379                   | 91.1            | 32.00              | 2.821                  | 13.26                 |
| 50         | Shah Madar                | 132 KV Sahiwal-III                           | Sahiwal    | 380                   | 90.9            | 32.00              | 2.829                  | 13.11                 |
| 51         | Akbar Shah                | 132 KV WAPDA Town & 132<br>KV Buch Villas    | Multan     | 390                   | 47.6            | 11.59              | 0.875                  | 13.07                 |
| 52         | Kot Mohi                  | 132 kV Shahdun Lund                          | D.G.Khan   | 300                   | 133.2           | 27.76              | 1.782                  | 12.94                 |
| 53         | Vehari Road               | 132 kV Kacha Khu                             | Khanewal   | 380                   | 99.0            | 18.00              | 2.059                  | 12.75                 |
| 54         | Dullow Banglow            | 132 kV Mian Channu                           | Khanewal   | 370                   | 101.8           | 21.00              | 1.764                  | 12.63                 |
| 55         | City-4                    | 132 kV Mian Channu                           | Khanewal   | 398                   | 52.8            | 17.00              | 3.663                  | 12.45                 |
| 56         | Vanjari                   | 132 kV ha Khu                                | Khanewal   | 379 🔾                 | 85.6            | 40.00              | 4.046                  | 12.41                 |

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|------------|---------------------------|----------------------------------------------------------|----------|-----------------------|-----------------|---------------|------------------------|-----------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                                             | Circle   | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D  | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
| 57         | Cold Storage              | 132 kV Khanewal                                          | Khanewal | 377                   | 57.2            | 13.00         | 2.263                  | 12.38                 |
| 58         | Mochi Wala                | 132 kV Mahra Khas                                        | M/Garh   | 390                   | 149.8           | 46.00         | 3.772                  | 12.06                 |
| 59         | Murad Abad                | 132 KV M/Garh &<br>132 KV K P B Sher                     | M/Garh   | 172                   | 82.4            | 22.83         | 1.065                  | 12.06                 |
| 60         | Khan Pur Bagga Sher       | 132 KV M/Garh &<br>132 KV K B Sher                       | M/Garh   | 208                   | 124.3           | 13.20         | 0.734                  | 12.00                 |
| 61         | Tube Well-1               | 132 KV M/Garh &<br>132 KV K.B.P.Sher                     | M/Garh   | 220                   | 117.8           | 9.20          | 0.490                  | 12.00                 |
| 62         | Haji Sher                 | 132 KV Sahuka                                            | Vehari   | 370                   | 71.7            | 31.0          | 2.618                  | 12.00                 |
| 63         | Habib Colony              | 132 KV Burewala                                          | Vehari   | 370                   | 9.3             | 19.0          | 4.307                  | 11.66                 |
| 64         | Jall Wala                 | 132 KV Bahawal Nagar & 132<br>KV Bahawal Nagar-II        | B/Nagar  | 260                   | 148.0           | <u>3</u> 0.10 | 1.386                  | 11.44                 |
| 65         | Qaboola Road              | 132 KV Bahawal Nagar & 132<br>KV Bahawal Nagar-II        | B/Nagar  | 300                   | 142.9           | 14.20         | 0.998                  | 11.44                 |
| 66         | Amruka                    | 132 KV Macload Gunj                                      | B/Nagar  | 280                   | 213.4           | 35.85         | 2.044                  | 11.25                 |
| 67         | Kot Samaba                | 132 KV Khan Pur                                          | R.Y.Khan | 351                   | 105.4           | 43.31         | 3.065                  | 11.04                 |
| 68         | New Tibbi Qaisrani        | 132 KV Noor Ahmad Wali                                   | D.G.Khan | 340                   | 175.9           | 36.31         | 2.225                  | 11.00                 |
| 69         | Old Kot Qaisrani          | 132 KV Tounsa                                            | D.G.Khan | 340                   | 74.7            | 33.00         | 2.427                  | 10.93                 |
| 70         | Rural                     | 132 KV Faqir Wali ,132 KV<br>Fort Abbas & 132 KV Khichi  | B/Nagar  | 150                   | 91.7            | 14            | 0.496                  | 10.77                 |
| 71         | Walhar                    | 132 KV Faqir Wali ,132 KV<br>Fort Abbas & 132 KV Khichi  | B/Nagar  | 260                   | 177.3           | 27.00         | 1.301                  | 10.45                 |
| 72         | Ghazi Ghat                | 132 KV Qasba Gujrat                                      | M/Garh   | 260                   | 162.0           | 28.00         | 1.843                  | 10.35                 |
| 73         | Yateem Wala               | 132 KV Faqir Wali & 132 KV<br>Khichi Wala (Connectivity) | B/Nagar  | 220                   | 96.7            | 22            | 0.849                  | 10.10                 |
| 74         | Wains                     | 132 KV Faqir Wali & 132 KV<br>Khichi Wala (Connectivity) | B/Nagar  | 110                   | 111.6           | 13.00         | 0.369                  | 9.93                  |
| 75         | Haji Pur                  | 132 KV Fazil Pur                                         | D.G.Khan | 184                   | 262.6           | 27.00         | 1.041                  | 9.79                  |

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|-----------------|---------------------------|------------------------------------------|----------|-----------------------|-----------------|--------------|------------------------|-----------------------|
| Sr.<br>No.      | 11KV Feeder /<br>Proposal | Grid Station                             | Circle   | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
| 76              | Bait Sontra               | 132 KV Rajan Pur                         | D.G.Khan | 180                   | 129.3           | 29.00        | 1.577                  | 9.74                  |
| 77              | Quresh                    | 132 KV Fort Abbas                        | B/Nagar  | 360                   | 116.4           | 27.00        | 2.089                  | 9.66                  |
| 78              | Manghair Sharif           | 132 KV Chishtian                         | B/Nagar  | 320                   | 98.1            | 31.12        | 2.597                  | 9.50                  |
| 79              | Jamlera                   | 132 KV Sahuka                            | Vehari   | 360                   | 108.8           | 12.1         | 2.432                  | 9.36                  |
| 80              | Al-Wardi                  | 132 KV Bonga Hayat                       | Sahiwal  | 360                   | 72.7            | 37.00        | 2.920                  | 9.20                  |
| 81              | City Feroza               | 132 KV Feroza                            | R.Y.Khan | 380                   | 104.8           | 27.80        | 1.966                  | 9.00                  |
| 82              | Scarp-8                   | 132 KV R.Y.Khan-II                       | R.Y.Khan | 380                   | 115.1           | 29.00        | 2.219                  | 9.00                  |
| 83              | Rahman Pur                | 132 KV R.Y.Khan-II                       | R.Y.Khan | 360                   | 48.7            | 15.00        | 1.034                  | 9.00                  |
| 84              | Badli Sharif              | 132 KV Jamal Din Wali                    | R.Y.Khan | 361                   | 159.3           | 39.00        | 3.298                  | 8.94                  |
| 85              | Rang Pur                  | 132 KV Jamal Din Wali                    | R.Y.Khan | 360                   | 98.1            | 18.91        | 1.524                  | 8.84                  |
| 86              | Mahi                      | 132 KV Nawaz Abad                        | R.Y.Khan | 370                   | 117.8           | 29.27        | 2.603                  | 8.65                  |
| 87              | Chowk Chadhar             | 132 KV Nawaz Abad                        | R.Y.Khan | 360                   | 99.4            | 22.76        | 1.828                  | 8.61                  |
| 88              | Shah Suleman              | 132 KV Tounsa                            | D.G.Khan | 320                   | 14.1            | 9.00         | 0.817                  | 8.13                  |
| 89              | Hassan Shah               | 132 KV Karam Pur                         | Vehari   | 380                   | 101.0           | 22.00        | 1.988                  | 8.06                  |
| 90              | Raja Pur                  | 132 KV Lodhran & 132 KV<br>Kehror Pacca  | B/Pur    | 230                   | 50.3            | 38.00        | 2.321                  | 8.00                  |
| 91              | Loyal Pur                 | 132 KV Lodhran & 132 KV<br>Kehror Pàcca  | B/Pur    | 180                   | 90.9            | 20.00        | 0.850                  | 8.00                  |
| <sup>2</sup> 92 | City-I Ali Pur            | 132 kV Ali Pur                           | M/Garh   | 390                   | 10.6            | 4.00         | 1.097                  | 7.93                  |
| 93              | Azeem Wah                 | 132 KV Chishtian & 66 KV<br>Bakshan Wala | B/Nagar  | 290                   | 144.1           | 34           | 0.216                  | 6.66                  |
| 94              | Saydan Wala               | 132 KV Chintian & 66 KV<br>Baksteri Wala | B/Nagar  | 66 )                  | 38.7            | 4.00         | 2.246                  | 6.30                  |

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| C.r | 11KV Foodor /         |                                        | <b>.</b> . | Max Load | Length | ,<br>,<br>, | A.E.           | % age        |
|-----|-----------------------|----------------------------------------|------------|----------|--------|-------------|----------------|--------------|
| No. | Proposal              | Grid Station                           | Circle     | Recorded | (K.M)  | V.D         | Loss<br>(MKWH) | A.E.<br>Loss |
|     |                       |                                        |            |          |        |             |                |              |
| 95  | City-I Jahanian       | 132 KV Jahanian                        | Khanewal   | 350      | 16.5   | 7.00        | 1.381          | 6.29         |
| 96  | City Garha More       | 132 KV Garha More                      | Vehari     | 400      | 132.5  | 33          | 2:207          | 5.93         |
| 97  | Mitru                 | 132 KV Garha More                      | Vehari     | 400      | 48.9   | 9.00        | 0.807          | 5.38         |
| 98  | Shatab Garh           | 132 KV Garha More                      | Vehari     | 370      | 99.1   | 48.00       | 4.120          | 5.28         |
| 99  | Zaheer Nagar          | 132 KV Azeem Abad                      | Vehari     | 332      | 62.5   | 31.00       | 2.085          | 5.00         |
| 100 | Machi Wal             | 132 KV Azeem Abad                      | Vehari     | 391      | 70.9   | 40          | 3.544          | 4.97         |
| 101 | Masoom Shah           | 132 KV Azeem Abad                      | Vehari     | 290      | 15.3   | 7.00        | 1.075          | 4.90         |
| 102 | New Sher Wala         | 132 KV Shaikh Fazil                    | Sahiwal    | 374 ·    | 142.2  | 39.00       | 3.288          | 4.68         |
| 103 | Ghazi Mardan          | 132 KV Bonga Hayat                     | Sahiwal    | 360      | 97.2   | 18.00       | 1.748          | 4.64         |
| 104 | Head Muhammad<br>Wala | 66 KV Rang Pur                         | M/Garh     | 191      | 97.9   | 43.91       | 2.905          | 4.42         |
| 105 | Shouque Elahi         | 132 KV Chishtian                       | B/Nagar    | 322      | 122.1  | 40          | 2.916          | 4.35         |
| 106 | Gujiani               | 132 KV Chishtian                       | B/Nagar    | 220      | 111.2  | 24.00       | 2.403          | 4.20         |
| 107 | Vehniwal              | 132 KV Khanewal & 132 KV<br>Garha More | Khanewal   | 330      | 139.2  | 34.00       | 1.925          | 4.00         |
| 108 | Old Factory           | 132 KV Arif Wala                       | Sahiwal    | 300      | 36.5   | 9.00.       | 0.744          | 3.97         |
| 109 | Piran Ghaib           | 132 KV P.G.H.S                         | Multan     | 395      | 49.3   | 12          | 1.039          | 3.84         |
| 110 | 500 KV                | 132 KV Khanewal Road                   | Multan     | 20       | 3.6    | 2.00        | 0.830          | 3.51         |
| 111 | City Liaquat Pur      | 132 KV Liaquat Pur                     | R.Y.Khan   | 300      | 11.1   | 4.41        | 0.954          | 3.31         |
| 112 | Kachi Mandi           | 132 KV Liaquat Pur                     | R.Y.Khan   | 220      | 18.0   | 6.89        | 0.927          | 3.00         |
| 113 | Mohin Abad            | 66 KV Kot Khalifa                      | B/Pur      | 171      | 111.2  | 10          | 0.506          | 2.98         |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                          | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|------------|---------------------------|---------------------------------------|----------------|-----------------------|-----------------|--------------|------------------------|-----------------------|
| 114        | Abbasia                   | 132 KV Liaquat Pur                    | B/Pur          | 200                   | 71.8            | 29.00        | 1.853                  | 2.67                  |
| 115        | City Kabir Wala           | 132 KV Kabir Wala                     | Khanewal       | 320                   | 37.6            | 16.00        | 2.683                  | 2.14                  |
| 116        | Old Tibbi Qaisrani        | 132 KV Noor Ahmad Wali                | D.G.Khan       | 210                   | 169.8           | 39           | 2.861                  | 1.78                  |
| 117        | Jallo Wali                | 132 KV Noor Ahmad Wali                | D.G.Khan       | 100                   | 57.3            | 9.00         | 0.431                  | 0.37                  |
| 118        | GANJ SHAKAR               | 132kv Pak Pattan                      | SAHIWAL        | 380                   | 62.3            | 43.90        | 5.104                  | 0.32                  |
| 119        | RAJAN PUR KALAN           | 132kv<br>J.D.WALI                     | RAHIM YAR KHAN | 380                   | 201.8           | 51.00        | 5.275                  | 0.29                  |
| 120        | BAHAR                     | 132kv Chowk Sarwar<br>Shaheed/C.MUNDA | MUZAFFARGARH   | 360                   | 234.2           | 40.00        | 6.364                  | 0.29                  |
| 121        | QADIR PUR CHEEM           | 132kv Kehror Pacca                    | BAHAWALPUR     | 390                   | 130.7           | 48.23        | 4.785                  | 0.28                  |
| 122        | AZIZ CHOWK                | 132kv Chowk Sarwar<br>Shaheed/C.MUNDA | MUZAFFARGARH   | 400                   | 253.2           | 41.00        | 5.947                  | 0.27                  |
| 123        | KOTLA                     | 132kv<br>JALAL PUR PIR WALA           | MULTAN         | 380                   | 175.9           | 46.00        | 5.790                  | 0.26                  |
| 124        | DOGAR                     | 132kv MAKHDOOM RASHID                 | MULTAN         | 340                   | 110.4           | 48.00        | 3.504                  | 0.26                  |
| 125        | SHER SHAH                 | 132kv INDUSTRIAL ESTATE<br>MULTAN     | MULTAN         | 350                   | 158.2           | 39.00        | 5.287                  | 0.25                  |
| 126        | BASEERA                   | 132kv GUJRAT SOUTH                    | MUZAFFARGARH   | 360                   | 146.6           | 35.00        | 5.060                  | 0.25                  |
| 127        | BABA MOHSIN SHAH          | 132kv Hoota                           | SAHIWAL        | 390                   | 100.8           | 42.37        | 3.993                  | 0.25                  |
| 128        | SATLUJ                    | 132kv LODHRAN                         | BAHAWALPUR     | 360                   | 97.1            | 47.24        | 2.871                  | 0.25                  |
| 129        | ZAHIR PIR                 | 132kv KHAN PUR                        | RAHIM YAR KHAN | 360                   | 85.5            | 52.00        | 2.720                  | 0.25                  |
| 130        | CHOPPER HATTA             | 132kv Makhdoom Pur                    | KHANEWAL       | 320                   | 135.2           | 34.01        | 3.008                  | 0.25                  |
| 131        | SCARP-FW (SCARP           | 132kv Bahawal Nagar                   | B/Nagar        | 340                   | 222.2           | 40.75        | 4.866                  | 0.25                  |
| 132        | SHER SHAH                 | 132kv 🔿a More                         | VEHARI         | 360 🔾                 | 118.3           | 33.92        | 3.619                  | 0.24                  |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|------------|---------------------------|-----------------------------|----------------|-----------------------|-----------------|--------------|------------------------|-----------------------|
| 133        | IQBAL ABAD                | 132kv R.Y.KHAN-I            | RAHIM YAR KHAN | 350                   | 100.0           | 41.00        | 3.562                  | 0.24                  |
| 134        | AL-KARAM                  | 132kv SHUJABAD              | MULTAN         | 360                   | 170.3           | 40.00        | 3.458                  | 0.24                  |
| 135        | ZIA                       | 66KV MAROOT                 | B/Nagar        | 390                   | 119.6           | 43.11        | 4.126                  | 0.24                  |
| 136        | KOT ABBAS SHAHEE          | 132KV KHANEWAL              | KHANEWAL       | 350                   | 139.6           | 43.25        | 3.337                  | 0.24                  |
| 137        | SHER KHAN                 | 132kv KABIR WALA            | KHANEWAL       | 320                   | 169.2           | 38.10        | 3.072                  | 0.23                  |
| 138        | MULTANI WALA              | 132kv JEHANIAN              | KHANEWAL       | 360                   | 133.3           | 35.26        | 3.840                  | 0.23                  |
| 139        | ISLAM PUR                 | 132kv LAAR                  | MULTAN         | 360                   | 100.2           | 31.00        | 3.748                  | 0.23                  |
| 140        | ВАТНІ                     | 132kv N.A.WALI              | D.G. KHAN      | 360                   | 85.3            | 40.17        | 3.019                  | 0.23                  |
| 141        | RAJA FIDA HUSSAI          | 132kv Qaboola               | SAHIWAL        | 380                   | 90.9            | 31.90        | 3.111                  | 0.23                  |
| 142        | AL-FAZAL                  | 132kv SHUJABAD              | MULTAN         | 390                   | 122.7           | 37.00        | 5.620                  | 0.23                  |
| 143        | NAWAB LIAQAT ALI          | 132kv SHUJABAD              | MULTAN         | 400                   | 98.6            | 37.00        | 2.880                  | 0.23                  |
| 144        | LAL KAMAL                 | 132kv LODHRAN               | BAHAWALPUR     | 340                   | 108.8           | 33.08        | 3.439                  | 0.23                  |
| 145        | HUSSAIN ABAD              | 132kv Pak Pattan            | SAHIWAL        | 380                   | 66.9            | 33.88        | 3.921                  | 0.23                  |
| 146        | SIKANDAR CHOWK            | 132kv Bunga Hayat           | SAHIWAL        | 360                   | 79.1            | 34.74        | 2.934                  | 0.22                  |
| 147        | MAKHDOOM<br>JAHANIA       | 132kv<br>JALAL PUR PIR WALA | MULTAN         | 360                   | 128.4           | 34.00        | 3.489                  | 0.22                  |
| 148        | NEW KOT QAISRANI          | 132kv TOUNSA                | D.G. KHAN      | 350                   | 88.4            | 36.43        | 3.335                  | 0.22                  |
| 149        | MEHMOOD KOT               | 132kv WAPDA TOWN<br>MULTAN  | MULTAN         | 390                   | 147.5           | 37.00        | 5.288                  | 0.22                  |
| 150        | KASRANWAN                 | 132KV KHANEWAL              | KHANEWAL       | 330                   | 169.4           | 36.59        | 3.072                  | 0.22                  |
| 151        | GHAZI ABBAS               | 132kv Chak 211/W.B          | VEHARI         | 360                   | 128.8           | 29.29        | 2.580                  | 0.21                  |

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|------------|---------------------------|-------------------------------|----------------|-----------------------|-----------------|--------------|----------------|--------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                  | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | Loss<br>(MKWH) | A.E.<br>Loss |
|            |                           |                               |                |                       |                 |              |                |              |
| 152        | VAHNIWAL                  | 132KV KHANEWAL                | KHANEWAL       | 360                   | 139.2           | 37,33        | 3.734          | 0.21         |
| 153        | NOOR PUR                  | 132kv Makhdoom Pur            | KHANEWAL       | 370                   | 126.0           | 31.04        | 3.305          | 0.21         |
| 154        | CITY DONGA BONGA          | 132kv Haroon Abad             | B/Nagar .      | 350                   | 91.6            | 35.45        | 1.920          | 0.21         |
| 155        | SAHU FEEDER               | 132kv MAKHDOOM RASHID         | MULTAN         | 350                   | 76.3            | 31.00        | 2.374          | 0.21         |
| 156        | PIR HAJIN SHER            | 132kv JEHANIAN                | KHANEWAL       | 320                   | 79.1            | 33.08        | 2.589          | 0.21         |
| 157        | KIKRI KHURD               | 132kv Mailsi                  | VEHARI         | 380                   | 89.1            | 31.51        | 2.667          | 0.21         |
| 158        | NOOR AHMAD WALI           | 132kv N.A.WALI                | D.G. KHAN      | 340                   | 74.0            | 25.48        | 2.269          | 0.21         |
| 159        | MARI ALLAH BACHA          | 132kv KHAN PUR                | RAHIM YAR KHAN | 330                   | 117.1           | 25.00        | 2.373          | 0.20         |
| 160        | NEW KACHAKHU              | 132kv Mianchannu              | KHANEWAL       | 330                   | 59.3            | 20.88        | 4.143          | 0.20         |
| 161        | BABA FARID                | 132kv Hoota                   | SAHİWAL        | 400                   | 114.1           | 31.77        | 2.741          | 0.20         |
| 162        | Ladhana                   | 132kv CHOWK AZAM              | MUZAFFARGARH   | 200                   | 126.1           | 41.00        | 3.908          | 0.20         |
| 163        | SHAHIDAN WALA             | 132kv LODHRAN                 | BAHAWALPUR     | 340                   | 111.9           | 21.38        | 2.403          | 0.20         |
| 164        | RAWAN                     | 132kv KHANEWAL ROAD<br>MULTAN | MULTAN         | 395                   | 87.9            | 22.00        | 4.601          | 0.20         |
| 165        | IRSHAD AHMAD KHA          | 132kv Mailsi                  | VEHARI         | 380                   | 102.8           | 29.50        | 2.309          | 0.20         |
| 166        | KOT AZAM                  | 132kv K.P.T Wali              | BAHAWALPUR     | 340                   | 142.6           | 26.62        | 2.574          | 0.20         |
| 167        | 8.KASSI                   | 132kv KABIR WALA              | KHANEWAL       | 325                   | 86.8            | 26.13        | .2.318         | 0.20         |
| 168        | NEW VEHARI RD             | 132kv VEHARI ROAD             | MULTAN         | 400                   | 66.9            | 24.00        | 3.964          | 0.20         |
| 169        | PAK PATTAN ROAD           | 132kv Kameer                  | SAHIWAL        | 330                   | 54.0            | 26.13        | 1.737          | 0.19         |
| 170        | Qureshi                   | 132kv VFORI ROAD              | MULTAN         | 370                   | 100.0           | 48.00        | 0.320          | 0.19         |

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|------------|---------------------------|-----------------------------|----------------|-----------------------|-----------------|--------------|------------------------|-----------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
| 171        | NOOR SHAH                 | 132kv Sahiwal New           | SAHIWAL        | 330                   | 105.3           | 31.39        | 2.599                  | 0.19                  |
| 172        | KARAMAN WALA              | 132kv Arif Wala             | SAHIWAL        | 370                   | 77.4            | 25.34        | 2.259                  | 0.19                  |
| 173        | SCARP-2                   | 132kv R.Y.KHAN-I            | RAHIM YAR KHAN | 320                   | 83.7            | 26.00        | 2.519                  | 0.19                  |
| 174        | NEW GARRAY WALA           | 132kv WAPDA TOWN<br>MULTAN  | MULTAN         | 390                   | 139.9           | 18.00        | 5.523                  | 0.19                  |
| 175        | RAHIM ABAD                | 132kv NAWAZABAD             | RAHIM YAR KHAN | 360                   | 97.3            | 24.00        | 2.203                  | 0.19                  |
| 176        | GAMEN SHAH                | 132kv Qaboola               | SAHIWAL        | 390                   | 143.8           | 33.20        | 1.964                  | 0.19                  |
| 177        | SOAN MIANI (F.NO          | 132kv<br>J.D.WALI           | RAHIM YAR KHAN | 390                   | 78.5            | 29.00        | 1.213                  | 0.19                  |
| 178        | MIRAN SHAH                | 132kv Pak Pattan            | SAHIWAL        | 320                   | 84.8            | 20.28        | 2.224                  | 0.19                  |
| 179        | SYED IRSHAD SHAH          | 132kv Arif Wala             | SAHIWAL        | 380                   | 30.3            | 24.47        | 2.807                  | 0.19                  |
| 180        | KHAN KAMAL                | 132kv Qadirabad             | SAHIWAL        | 320                   | 71.7            | 18.14        | 2.350                  | 0.19                  |
| 181        | T.WELL                    | 132kv SHUJABAD              | MULTAN         | 330                   | 86.9            | 17.00        | 2.146                  | 0.19                  |
| 182        | SALDERA                   | 132kv Sahuka                | VEHARI         | 390                   | 129.6           | 26.13        | 2.337                  | 0.19                  |
| 183        | PIR KABEER                | 132kv KABIR WALA            | KHANEWAL       | 320                   | 29.3            | 16.42        | 2.224                  | 0.19                  |
| 184        | KAREEM WALA               | 132kv SHAHDAN LUND          | D.G. KHAN      | 380                   | 135.0           | 22.36        | 2.546                  | 0.19                  |
| 185        | PULL MURAD                | 132kv Haroon Abad           | B/Nagar        | 320                   | 118.5           | 23.69        | 2.326                  | 0.18                  |
| 186        | BEHLI SHARIF              | 132kv<br>JALAL PUR PIR WALA | MULTAN         | 370                   | 78.5            | 29.00        | 0.921                  | 0.18                  |
| 187        | BORIAN WALA               | 132kv LAAR                  | MULTAN         | 350                   | 96.5            | 24.00        | 1.150                  | 0.18                  |
| 188        | NAO QABAL WAH             | 132kv Kehror Pacca          | BAHAWALPUR     | 320                   | 100.8           | 21.24        | 1.845                  | 0.18                  |
| 189        | FACTORY                   | 132kv Mailsi                | VEHARI         | 380                   | 100.6           | 18.16        | 1.984                  | 0.18                  |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station               | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|------------|---------------------------|----------------------------|----------------|-----------------------|-----------------|--------------|------------------------|-----------------------|
|            |                           |                            |                |                       |                 |              |                        |                       |
| 190        | ALI SHERWAN               | 132kv JEHANIAN             | KHANEWAL       | 360                   | 69.9            | 23.36        | 1.850                  | 0.18                  |
| 191        | DERA RAHIM                | 132kv Sahiwal Old          | SAHIWAL        | 380                   | 59.9            | 24.34        | 2.482                  | 0.18                  |
| 192        | DANI                      | 132kv MARA KHAS            | MUZAFFARGARH   | 180                   | 121.7           | 35.00        | 2.934                  | 0.18                  |
| 193        | DUNYA PUR                 | 132kv JEHANIAN             | VEHARI         | 380                   | 104.8           | 19.88        | 1.902                  | 0.18                  |
| 194        | IMAM SHAH                 | 132kv SHUJABAD             | MULTAN         | 380                   | 68.2            | 31.00        | 1.696                  | 0.17                  |
| 195        | CHICHAWATNI OLD           | 132kv Chichawatni          | SAHIWAL        | 320                   | 93.6            | 20.94        | 2.263                  | 0.17                  |
| 196        | INDUSTRIAL                | 132kv SHUJABAD             | MULTAN         | 290                   | 149.5           | 35.00        | 5.778                  | 0.17                  |
| 197        | 11.KV NEW MANTHA          | 132kv SADIQABAD            | RAHIM YAR KHAN | 210                   | 156.2           | 32.00        | 5.491                  | 0.17                  |
| 198        | THATHA GABOLLAN           | 132kv KOT CHUTTA           | D.G. KHAN      | 330                   | 91.9            | 14.98        | 1.682                  | 0.17                  |
| 199        | FACTORY KP                | 132kv Kehror Pacca         | BAHAWALPUR     | 380                   | 131.1           | 20.34        | 2.158                  | 0.17                  |
| 200        | KHAWAJA ARIF              | 132kv Sahiwal Old          | SAHIWAL        | 360                   | 107.0           | 55.83        | 2.020                  | 0.17                  |
| 201        | KOTLY NAJABAT             | 132kv BASTI MALOOK         | MULTAN         | 350                   | 105.6           | 19.00        | 1.922                  | 0.17                  |
| 202        | NOORPUR CITY              | 132kv Noor Pur             | SAHIWAL        | 360                   | 72.1            | 15.00        | 1.591                  | 0.17                  |
| 203        | KAMEER CITY               | 132kv Kameer               | SAHIWAL        | 335                   | 41.0            | 11.11        | 1.913                  | 0.17                  |
| 204        | BADAR SHER                | 132kv BAGHDAD-UL-JADID     | BAHAWALPUR     | 390                   | 21.6            | 14.25        | 1.974                  | 0.17                  |
| 205        | CHAK 5-FAIZ               | 132kv LAAR                 | MULTAN         | 350                   | 44.0            | 22.00        | 0.475                  | 0.17                  |
| 206        | NAWAB PUR ROAD            | 132kv BOSAN ROAD<br>MULTAN | MULTAN         | . 380                 | 13.4            | 12.00        | 2.044                  | 0.17                  |
| 207        | <b>FATEH SHAH KP</b>      | 132kv Kehror Pacca         | BAHAWALPUR     | 330                   | 75.7            | 19.18        | 1.046                  | 0.17                  |
| 208        | . BURHAN PUR              | 132kv K 🍞r Pacca           | BAHAWALPUR     | 350 🔾                 | 109.8           | 21.93        | 1.310                  | 0.17                  |

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|------------|---------------------------|---------------------------|----------------|-----------------------|-----------------|--------------|------------------------|-----------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station              | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
| 209        | QUAID-E-AZAM              | 132kv R.Y.KHAN-II         | RAHIM YAR KHAN | 340                   | 12.3            | 15.00        | 1.169                  | 0.17                  |
| 210        | TABARAKWAH                | 133 KV Karam Pur          | VEHARI         | 320                   | 70.5            | 14.46        | 1.095                  | 0.17                  |
| 211        | PEER HASAN SAWAL          | 132kv<br>JAIL ROAD MULTAN | MULTAN         | 340                   | 34.0            | 13.00        | 1.715                  | 0.17                  |
| 212        | CHAK-182/E.B              | 132kv Vehari              | VEHARI         | 380                   | 82.6            | 17.10        | 1.470                  | 0.17                  |
| 213        | CITY-II                   | 132kv MUBARAK PUR         | BAHAWALPUR     | 350                   | 99.4            | 12.76        | 1.559                  | 0.17                  |
| 214        | COLLEGE ROAD              | 132kv BAGHDAD-UL-JADID    | BAHAWALPUR     | 350                   | 29.1            | 12.61        | 1.801                  | 0.17                  |
| 215        | SHAKAR GUNJ               | 132kv Mailsi              | VEHARI         | 380                   | 60.1            | 20.27        | 1.298                  | 0.17                  |
| 216        | DHORI                     | 132kv CHOWK AZAM          | MUZAFFARGARH   | 330                   | 170.8           | 20.00        | 1.314                  | 0.17                  |
| 217        | SAKHI SARWAR              | 132kv R.Y.KHAN-II         | RAHIM YAR KHAN | 380                   | 28.9            | 14.00        | 1.324                  | 0.16                  |
| 218        | AL-HALAL                  | 132kv VEHARI ROAD         | MULTAN         | 360                   | 57.0            | 11.00        | 1.969                  | 0.16                  |
| 219        | CHAK-22/W.B               | 132kv Vehari              | VEHARI         | 390                   | 116.6           | 17.03        | 1.481                  | 0.16                  |
| 220        | NISHAT ROAD               | 132kv QASIM PUR MULTAN    | MULTAN         | 400                   | 13.5            | 14.00        | 1.479                  | 0.16                  |
| 221        | GHAZI ABAD                | 132kv Chichawatni         | SAHIWAL        | 330                   | 86.7            | 15.49        | 1.449                  | 0.16                  |
| 222        | NEW SATELLITE TO          | 132kv R.Y.KHAN-II         | RAHIM YAR KHAN | 320                   | 17.8            | 14.00        | 0.945                  | 0.16                  |
| 223        | PEOPLES COLONY            | 132kv QASIM PUR MULTAN    | MULTAN         | 390                   | 30.3            | 11.00        | 1.782                  | 0.16                  |
| 224        | KHAN GARH                 | 132kv KHAN GARH           | MUZAFFARGARH   | 340                   | 47.2            | 12.00        | 1.227                  | 0.16                  |
| 225        | MUHAMMAD NAGAR            | 132kv Qaboola             | SAHIWAL        | 380                   | 59.1            | 10.92        | 1.180                  | 0.16                  |
| 226        | NEW CHAK-37/W.B           | 132kv Vehari              | VEHARI         | 360                   | 75.5            | 12.43        | 1.054                  | 0.16                  |
| 227        | D.D.PANAH                 | 132kv KOT ADDU            | MUZAFFARGARH   | 330                   | 95.9            | 15.00        | 1.261                  | 0.16                  |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                      | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D      | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|------------|---------------------------|-----------------------------------|----------------|-----------------------|-----------------|-------------------|------------------------|-----------------------|
| 228        | QASBA MARAL               | 132kv SHUJABAD                    | MULTAN         | 350                   | 91.8            | 12.00             | 1.101                  | 0.16                  |
| 229        | KALYANA                   | 132kv Arif Wala                   | SAHIWAL        | 340                   | 71.7            | 14.00             | 1.207                  | 0.16                  |
| 230        | MES THINGI                | 132kv Vehari                      | VEHARI         | 390                   | 92.1            | 14.10             | 1.323                  | 0.16                  |
| 231        | KOT SABZAL                | 132kv NAWAZABAD                   | RAHIM YAR KHAN | 180                   | 40.2            | 32.00             | 3.253                  | 0.16                  |
| 232        | FATEH SHAH                | 132kv Burewala Old                | VEHARI         | 320                   | 91.2            | 11.75             | 1.140                  | 0.16                  |
| 233        | AHMADABAD                 | 132kv Ludden                      | VEHARI         | 400 .                 | 116.5           | 15.05             | 1.065                  | 0.15                  |
| 234        | MUZAFFAR ABAD             | 132kv INDUSTRIAL ESTATE<br>MULTAN | MULTAN         | 350                   | 16.9            | 9.00              | 1.236                  | 0.15                  |
| 235        | AFTAB MEHMOOD             | 135 KV Karam Pur                  | VEHARI         | 340                   | 85.1            | 12.51             | 0.783                  | 0.15                  |
| 236        | MILLAT                    | 132kv R.Y.KHAN-I                  | RAHIM YAR KHAN | 320                   | 8.9             | 9.00              | 0.864                  | 0.15                  |
| 237        | JINNAH                    | 132kv KHAN PUR                    | RAHIM YAR KHAN | 360                   | 10.5            | 9.00              | 1.229                  | 0.15                  |
| 238        | CITY                      | 132kv SHUJABAD                    | MULTAN         | 370                   | 17.7            | 8.00              | 1.250                  | 0.15                  |
| 239        | CITY                      | 132kv LAYYAH                      | MUZAFFARGARH   | 320                   | 22.1            | 8.00              | 0.806                  | 0.15                  |
| 240        | COLONY-II                 | 132KV KHANEWAL                    | KHANEWAL       | 350                   | 14.1            | 8.28              | 0.885                  | 0.15                  |
| 241        | CITY-1 JHN                | 132kv JEHANIAN                    | KHANEWAL       | 380                   | 16.5            | 7.75              | 1.006                  | 0.15                  |
| 242        | GHOUS PURA                | 132kv VEHARI ROAD                 | MULTAN         | 390                   | 12.0            | 9.00              | 0.824                  | 0.15                  |
| 243        | WAINS                     | 132kv WAPDA TOWN<br>MULTAN        | MULTAN         | 330                   | 10.4            | 9.00              | 0.634                  | 0.15                  |
| 244        | CITY-II                   | 132kv LODHRAN                     | BAHAWALPUR     | 380                   | 30.3            | 9.05 <sup>.</sup> | 1.072                  | 0.15                  |
| 245        | FATEH PUR                 | 132kv FATEH PUR                   | MUZAFFARGARH   | 370                   | 18.6            | 6.00              | 0.877                  | 0.15                  |
| 246        | MAROOT-IST                | 66KV SOOT                         | B/Nagar        | 380 🔾                 | 48.2            | 9.24              | 0.694                  | 0.15                  |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal      | Grid Station                      | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | י,<br>% agè<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|------------|--------------------------------|-----------------------------------|----------------|-----------------------|-----------------|--------------------|------------------------|-----------------------|
| 247        | COLLEGE ROAD-II                | 132kv BAGHDAD-UL-JADID            | BAHAWALPUR     | 360                   | 19.5            | 9.73               | 0.898                  | 0.15                  |
| 248        | JEHANGIRABAD                   | 132KV KHANEWAL                    | KHANEWAL       | 330                   | 53.0            | 9.62               | 0.561                  | 0.15                  |
| 249        | POWER HOUSE-II                 | 132kv LAYYAH                      | MUZAFFARGARH   | 340                   | 106.3           | 9.00               | 0.584                  | 0.14                  |
| 250        | TUBEWEL(B.PUR)                 | 132kv R.Y.KHAN-I                  | RAHIM YAR KHAN | 360                   | 24.5            | 9.00               | 1.003                  | 0.14                  |
| 251        | TIBBA SULTAN                   | 132kv JEHANIAN                    | VEHARI         | 390                   | 82.0            | 10.20              | 1.020                  | 0.14                  |
| 252        | OLD SHUJAABAD RO               | 132kv<br>JAIL ROAD MULTAN         | MULTAN         | 360                   | 10.6            | 6.00               | 0.907                  | 0.14                  |
| 253        | ÚSMAN E GHANI RO               | 132kv VEHARI ROAD                 | MULTAN         | 390                   | 10.8            | 6.00               | 0.954                  | 0.13                  |
| 254        | T.P.S/TALIRI                   | 132kv M/GARH                      | MUZAFFARGARH   | 320                   | 23.9            | 7.00               | 0.883                  | 0.13                  |
| 255        | ANSAR COLONY                   | 132kv VEHARI ROAD                 | MULTAN         | 380                   | 7.9             | 6.00               | 1.071                  | 0.13                  |
| 256        | AZIZ ABAD                      | 132kv R.Y.KHAN-II                 | RAHIM YAR KHAN | 320                   | 11.6            | 6.00               | 0.607                  | 0.13                  |
| 257        | EXPRESS                        | 132kv BOSAN ROAD<br>MULTAN        | MULTAN         | 320                   | 11.4            | 6.00               | 0.678                  | 0.13                  |
| 258        | I.ESTET-II/Multan<br>Chemicals | 132kv INDUSTRIAL ESTATE<br>MULTAN | MULTAN         | 390                   | 11.4            | 5.00               | 1.057                  | 0.13                  |
| 259        | GHALA MANDI                    | 132kv QASIM PUR MULTAN            | MULTAN         | 330                   | 10.8            | 7.00               | 0.774                  | 0.13                  |
| 260        | KHAN VILLAGE ROA               | 132kv BOSAN ROAD<br>MULTAN        | MULTAN         | 320                   | 8.5             | 6.00`              | 0.580                  | 0.13                  |
| 261        | AHMAD FEEDER                   | 132kv WAPDA TOWN<br>MULTAN        | MULTAN         | 390                   | 19.1            | 6.00               | 1.020                  | 0.13                  |
| 262        | PIR ISMAIL                     | 132kv QASIM PUR MULTAN            | MULTAN         | 390                   | 33.6            | 9.00               | 0.646                  | 0.13                  |
| 263        | CITY LODHRAN                   | 132kv LODHRAN                     | BAHAWALPUR     | 380                   | 26.9            | 8.25               | 0.821                  | 0.13                  |
| 264        | SURAJ KUND ROAD                | 132kv QASIM PUR MULTAN            | MULTAN         | 370                   | 14.4            | 7.00               | 0.785                  | 0.13                  |
| 265        | GHAFOOR                        | 132kv WAPDA TOWN                  | MULTAN         | 390                   | 11.8            | 5.00               | 0.887                  | 0.12                  |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                         | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|------------|---------------------------|--------------------------------------|----------------|-----------------------|-----------------|--------------|------------------------|-----------------------|
| 266        | CITY-3                    | 132kv Burewala                       | VEHARI         | 320                   | 40.9            | 6.28         | 0.654                  | 0.12                  |
| 267        | SHALIMAR                  | 132kv BOSAN ROAD<br>MULTAN           | MULTAN         | 350                   | 9.7             | 5.00         | 0.749                  | 0.12                  |
| 268        | GULZAR MAHEL              | 132kv BAHAWAL PUR<br>CANTT           | BAHAWALPUR     | 380                   | 14.9            | 8.16         | 0.720                  | 0.12                  |
| 269        | LUDDEN                    | 132kv Ludden                         | VEHARI         | 320                   | 93.3            | 5.59         | 0.662                  | 0.12                  |
| 270        | JAHANGIR ABAD             | 132kv PUNJAB GOVT<br>HOUSING SOCIETY | MULTAN         | 390                   | 44.9            | 7.00         | 0.709                  | 0.12                  |
| 271        | WAPDA TOWN                | 132kv WAPDA TOWN<br>MULTAN           | MULTAN         | 380                   | 21.2            | 8.00         | 0.541                  | 0.12                  |
| 272        | INDUSTRIAL-5              | 132kv INDUSTRIAL ESTATE<br>MULTAN    | MULTAN         | 360                   | 2.2             | 2.00         | 0.788                  | 0.12                  |
| 273        | USMAN ABAD                | 132kv BOSAN ROAD<br>MULTAN           | MULTAN         | 370                   | 9.0             | 5.00         | 0.548                  | 0.12                  |
| 274        | Muslim Town               | 132kv VEHARI ROAD                    | MULTAN         | 380                   | 12.7            | 8.00         | 0.145                  | 0.12                  |
| 275        | CITY-II CHOWK AZ          | 132kv CHOWK AZAM                     | MUZAFFARGARH   | 350                   | 12.5            | 4.00         | 0.484                  | 0.12                  |
| 276        | TIMBER MARKT              | 132kv MESCO MULTAN                   | MULTAN         | 330                   | 8.0             | 3.00         | 0.669                  | 0.12                  |
| 277        | PIR KHURSHID COL          | 132kv BOSAN ROAD<br>MULTAN           | MULTAN         | 340                   | 9.4             | 4.00         | 0.536                  | 0.11                  |
| 278        | BAHISHTI                  | 132kv R.Y.KHAN-II                    | RAHIM YAR KHAN | 390                   | 20.4            | 4.00         | 0.636                  | 0.11                  |
| 279        | CITY JALAL PUR            | 132kv<br>JALAL PUR PIR WALA          | MULTAN         | 370                   | 19.9            | 4.00         | 0.734                  | 0.11                  |
| 280        | AKBAR ROAD                | 132kv MESCO MULTAN                   | MULTAN         | 340                   | 7.1             | 4.00         | 0.520                  | 0.11                  |
| 281        | SHARIF PURA               | 132kv VEHARI ROAD                    | MULTAN         | 320                   | 8.2             | 3.00         | 0.495                  | 0.11                  |
| 282        | INDUSTRIAL ESTAT          | 132kv INDUSTRIAL ESTATE<br>MULTAN    | MULTAN         | 370                   | 14.2            | 4.00         | 0.683                  | 0.11                  |
| 283        | CITY NO.3                 | 132kv Mianchannu                     | KHANEWAL       | 330                   | 5.4             | 2.32         | 0.441                  | 0.11                  |
| 284        | ASHRAF ABAD               | 132kv BOON ROAD<br>MULTAN            | MULTAN         | 360 🔾                 | 4.7             | 4.00         | 0.233                  | 0.11                  |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal  | Grid Station                      | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D       | A.E.<br>Loss<br>(MKWH)                      | % age<br>A.E.<br>Loss |
| 285        | BALAL                      | 132kv Vehari                      | VEHARI         | 380                   | 20.7            | 6.21               | 0.228                                       | 0.11                  |
| 286        | INDUSTRIAL ESTAT           | 132kv INDUSTRIAL ESTATE<br>MULTAN | MULTAN         | 360                   | 7.8             | 3.00.              | 0.642                                       | 0.11                  |
| 287        | WAHDAT COLONY              | 132kv BOSAN ROAD<br>MULTAN        | MULTAN         | 340                   | 9.4             | 2.00               | 0.394                                       | 0.10                  |
| 288        | CITY-1                     | 132kv Mailsi                      | VEHARI         | 380                   | 12.2            | 3.01               | 0.300                                       | 0.10                  |
| 289        | ALLAMA IQBAL               | 132kv R.Y.KHAN-II                 | RAHIM YAR KHAN | 400                   | 18.9            | 10.00              | 1.063                                       | 0.10                  |
| 290        | SULTAN PURA                | 132kv QASIM PUR MULTAN            | MULTAN         | 360                   | 11.5            | 5.00               | 0.765                                       | 0.10                  |
| 291        | JANGLE BURALI              | 220KV, Vehari                     | VEHARI         | 350                   | 102.8           | 25.77.             | 3.061                                       | 0.10                  |
| 292        | СІТҮ КОТ СНИТТА            | 132kv KOT CHUTTA                  | D.G. KHAN      | 340                   | 87.3            | 6.97               | 0.771                                       | 0.10                  |
| 293        | <sup>•</sup> HOSPITAL ROAD | 132kv D.G.KHAN-I                  | D.G. KHAN      | 330                   | 10.4            | 5.19               | 0.519                                       | 0.10                  |
| 294        | CITY(RAJAN PUR)            | 132kv RAJAN PUR                   | D.G. KHAN      | 320                   | 14.1            | 2.70               | 0.501                                       | 0.10                  |
| 295        | DEHLI GATE                 | 132kv VEHARI ROAD                 | MULTAN         | 400                   | 12.4            | 11.00              | 0.338                                       | 0.10                  |
| 296        | CITY-2                     | 132kv BASTI MALOOK                | BAHAWALPUR     | 350                   | 60.2            | 15.95 <sub>.</sub> | 1.345                                       | 0.10                  |
| 297        | Z-Town                     |                                   | MULTAN         | 340                   | 44.8            | 12.00              | 0.052                                       | 0.10                  |
| 298        | SARDAR PUR                 | 132kv BASTI MALOOK                | BAHAWALPUR     | 340                   | 53.0            | 8.09               | 0.666                                       | 0.09                  |
| 299        | SATELLITE TOWN             | 132kv BAHAWAL PUR                 | BAHAWALPUR     | 340                   | 21.5            | 6.19               | 0.598                                       | 0.09                  |
| 300        | AL-FARID                   | 132kv Pak Pattan                  | SAHIWAL        | 340                   | 10.8            | 3.19               | 0.495                                       | 0.09                  |
| 301        | KOT HAIBAT                 | 132kv D.G.KHAN-II                 | D.G. KHAN      | 330                   | 40.7            | 24.55              | 2.579                                       | 0.09                  |
| 302        | CITY-5                     | 132kv Burewala                    | VEHARI         | 330                   | 34.9            | 8.26               | 0.815                                       | 0.09                  |
| 303        | SHADAB TOWN                | 132kv Sahiwal Old                 | SAHIWAL        | 325                   | 12.7            | 12.12              | 1.793                                       | 0.09                  |

 $\sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1} \sum_{j=1}^{n-1} \sum_{i=1}^{n-1} \sum_{j=1}^{n-1}  

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D       | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|            |                           |                             |                |                       |                 |                    |                        |                       |
| 304        | KHAYBANA SARWER           | 132kv D.G.KHAN-I            | D.G. KHAN      | 320                   | 30.0            | 13.40              | 1.472                  | 0.09                  |
| 305        | MACHI GOTH                | 132kv SADIQABAD             | RAHIM YAR KHAN | 320                   | 25.0            | 9.00               | 0.471                  | 0.08                  |
| 306        | SADAR-UD-DIN SHA          | 132kv SHUJABAD              | MULTAN         | 320                   | 14.5            | 8.00               | 0.587                  | 0.08                  |
| 307        | M.CHANNU C-2              | 132kv Mianchannu            | KHANEWAL       | 320                   | 23.5            | 5.10               | 0.642                  | 0.08                  |
| 308        | CITY KHAIRPUR             | 132kv K.P.T Wali            | BAHAWALPUR     | 320                   | 37.7            | 4.24               | 0.184                  | 0.08                  |
| 309        | ISLAM GARH (EXP)          | 132kv KHAN PUR              | RAHIM YAR KHAN | 280                   | 208.7           | 41.00              | 4.848                  | 0.08                  |
| 310        | CHOWKI HIRAJ              | 132kv KABIR WALA            | KHANEWAL       | 200                   | 130.7           | 35.42              | 3.082                  | 0.08                  |
| 311        | CHACHARAN SHARIF          | 132kv Mian Wali Qureshian   | RAHIM YAR KHAN | 310                   | 183.7           | 49.00              | 6.034                  | 0.08                  |
| 312        | CHAK-24/10 R              | 132kv Kacha Khuh            | KHANEWAL       | 280                   | 108.0           | 38.76 <sup>-</sup> | 5.134                  | 0.08                  |
| 313        | MEHARIA CITY              | 132kv Faqir Wali            | B/Nagar        | 230                   | 99.5            | 32.10              | 3.560                  | 0.08                  |
| 314        | MERAY SHAH                | 132kv SADIQABAD             | RAHIM YAR KHAN | 260                   | 70.2            | 44.00              | 2.861                  | 0.08                  |
| 315        | M/GANG                    | 66KV Mecleod Gunj           | B/Nagar        | 300                   | 164.6           | 32.46              | 5.249                  | 0.08                  |
| 316        | MIAN WALA BANGLO          | 132kv Haroon Abad           | B/Nagar        | 285                   | 135.7           | 41.12              | 4.115                  | 0.07                  |
| 317        | SHAH JAMAL                | 132kv MARA KHAS             | MUZAFFARGARH   | 310                   | 130.6           | 38.00              | 5.568                  | 0.07                  |
| 318        | SHARIF ANSARI             | 132kv GUJRAT SOUTH          | MUZAFFARGARH   | 200                   | 108.8           | 29.00              | 3.542                  | 0.07                  |
| 319        | NAWAN CHOWK               | 132KV KHANEWAL              | KHANEWAL       | 240                   | 103.6           | 40.17              | 3.155                  | 0.07                  |
| 320        | KARMAN WALA               | 132kv Kameer                | SAHIWAL        | 240                   | 51.7            | 36.45              | 2.818                  | 0.07                  |
| 321        | QADIR PUR                 | 132kv<br>JALAL PUR PIR WALA | MULTAN         | 260                   | 200.2           | 46.00              | 2.103                  | 0.07                  |
| 322        | CHAK-NO.28/10 R           | 132kv K Khuh                | KHANEWAL       | 290                   | 108.0           | 40.46              | 3.825                  | 0.07                  |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                      | Circle         | Max. Load | Length | % age | A.E.<br>Loss | % age<br>A.E. |
|------------|---------------------------|-----------------------------------|----------------|-----------|--------|-------|--------------|---------------|
|            |                           |                                   |                | Recorded  | (1)    |       | (MKWH)       | Loss          |
| 323        | SHEIKH TAYYAB             | 132kv Chichawatni                 | SAHIWAL        | 220       | 93.3   | 31.90 | 3.714        | 0.07          |
| 324        | KHANBELA                  | 132kv<br>JALAL PUR PIR WALA       | MULTAN         | 300       | 237.2  | 32.00 | 5.620        | 0.07          |
| 325        | ADDA KHIRAJ PURA          | 132kv Bahawal Nagar               | B/Nagar        | 165 ·     | 85.2   | 32.63 | 2.043        | 0.07          |
| 326        | CITY-II                   | 132kv MARA KHAS                   | MUZAFFARGARH   | 180       | 30.4   | 3.00  | 2.095        | 0.07          |
| 327        | GHULAM QADIR              | 132kv Arif Wala                   | SAHIWAL        | 260       | 57.6   | 36.95 | 2.663        | 0.06          |
| 328        | AL-MURAD                  | 132kv Dahran Wala                 | B/Nagar        | 280       | 85.9   | 38.94 | 3.050        | 0.06          |
| 329        | WASANDAY WALI             | 132kv MARA KHAS                   | MUZAFFARGARH   | 300       | 79.5   | 38.00 | 3.696        | 0.06          |
| 330        | SARAI SIDHU               | 132kv Head Sidhnai                | KHANEWAL       | 300       | 254.1  | 39.65 | 4.026        | 0.06          |
| 331        | AHSAN ABAD                | 132kv Harrapa                     | SAHIWAL        | 280       | 74.3   | 37.14 | 3.154        | 0.06          |
| 332        | BAHAUDDIN ZAKARI          | 132kv INDUSTRIAL ESTATE<br>MULTAN | MULTAN         | 310       | 14.5   | 2.00  | 2.555        | 0.06          |
| 333        | SAUDULLAH PUR             | 132kv<br>JALAL PUR PIR WALA       | BAHAWALPUR     | 300       | 109.0  | 38.79 | 2.420        | 0.06          |
| 334        | EXPRESS-1                 | 132kv SADIQABAD                   | RAHIM YAR KHAN | 260       | 134.2  | 39.00 | 3.177        | 0.06          |
| 335        | TIBI QASRANI              | 132kv N.A.WALI                    | D.G. KHAN      | 220       | 169.8  | 35.51 | 2.760        | 0.06          |
| 336        | MUOWALA                   | 132kv Ali Pur                     | MUZAFFARGARH   | 270       | 79.6   | 29.00 | 3.156        | 0.06          |
| 337        | ABBASIA                   | 132kv LIAQAT PUR                  | RAHIM YAR KHAN | 240       | 71.8   | 36.00 | 2.712        | 0.06          |
| 338        | NEW MUSA PAK              | 132kv MAAN KOT                    | MULTAN         | 170       | 4.5    | 2.00. | 1.644        | 0.06          |
| 339        | NEW SANGI                 | 132kv MAAN KOT                    | MULTAN         | 300       | 114.0  | 32.00 | 2.779        | 0.06          |
| 340        | TUBEWELL-6                | 132kv KOT ADDU                    | MUZAFFARGARH   | . 300     | 66.3   | 41.00 | 2.459        | 0.06          |
| 341        | PIROWAL-II                | 132kv Makhdoom Pur                | KHANEWAL       | 270       | 60.4   | 27.83 | 2.442        | 0.06          |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                  | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
| 342        | LALAZAR                   | 132kv CHOBARA                 | MUZAFFARGARH   | 310                   | 172.8           | 39.00        | 3.232                  | 0.05                  |
| 343        | DILBER                    | 132kv ROJHAN                  | D.G. KHAN      | 160                   | 150.3           | 41.66        | 1.374                  | 0.05                  |
| 344        | THUL HAMZA (KB-7          | 132kv KHAN BELA               | RAHIM YAR KHAN | 220                   | 166.5           | 29.00        | 2.776                  | 0.05                  |
| 345        | AL-HAIDER                 | 132kv Hasil Pur               | BAHAWALPUR     | 210                   | 119.7           | 28.69        | 2.346                  | 0.05                  |
| 346        | JAMAN SHAH                | 66KV KOT SULTAN               | MUZAFFARGARH   | 260                   | 84.7            | 7.00         | 3.364                  | 0.05                  |
| 347        | MEHAR WALI                | 132kv Noor Ser                | B/Nagar        | 180                   | 115.9           | 26.74        | 2.018                  | 0.05                  |
| 348        | KALANCH WALA              | 220KV, Mari Sh. Shajra        | BAHAWALPUR     | 200                   | 145.1           | 32.39        | 2.477                  | 0.05                  |
| 349        | GHAZI                     | 132kv NAWAZABAD               | RAHIM YAR KHAN | 300                   | 58.8            | 28.00        | 2.442                  | 0.05                  |
| 350        | RAFIQ ABAD                | 132kv Fort Abbas              | B/Nagar        | 180                   | 79.5            | 27.86        | 2.002                  | 0.05                  |
| 351        | CITY JUNPUR               | 132kv KHAN BELA               | RAHIM YAR KHAN | 250                   | 166.4           | 27.00        | 3.310                  | 0.05                  |
| 352        | TUBEWELL-10               | 132kv KOT ADDU                | MUZAFFARGARH   | 140                   | 136.8           | 26.00        | 1.797                  | 0.05                  |
| 353        | HAFIZ DAEM                | 132kv Qadirabad               | SAHIWAL        | 280                   | 85.8            | 32.13        | 3.075                  | 0.05                  |
| 354        | GHAZI PUR                 | 132kv<br>JALAL PUR PIR WALA   | MULTAN         | 260                   | 118.7           | 26.00        | 2.714                  | 0.05                  |
| 355        | KUD WALA                  | 132kv YAZMAN                  | BAHAWALPUR     | 85                    | 156.0           | 13.72        | 2.172                  | 0.05                  |
| 356        | BUREWALA ROAD             | 132kv Arif Wala               | SAHIWAL        | 300                   | 65.0            | 30.67        | 2.901                  | 0.05                  |
| 357        | CITY VAHOVA               | 132kv N.A.WALI                | D.G. KHAN      | 300                   | 90.8            | 28.91        | 3.777                  | 0.05                  |
| 358        | SANGHI                    | 132kv KHANEWAL ROAD<br>MULTAN | MULTAN         | 230                   | 106.1           | 30.00        | 2.429                  | 0.05                  |
| 359        | RAZA ABAD                 | 132kv KABIR WALA              | KHANEWAL       | 310                   | 69.0            | 27.94        | 3.074                  | 0.05                  |
| 360        | TUBEWELL-7                | 132kv K ADDU                  | MUZAFFARGARH   | 160 🔾                 | 124.4           | 24.00        | 1.968                  | 0.04                  |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
| 361        | ZAFFAR ABAD               | 132kv<br>JALAL PUR PIR WALA | MULTAN         | 280                   | 92.6            | 29.00        | 3.156                  | 0.04                  |
| 362        | 11-KV GUJIANI             | 132kv Chishtian             | B/Nagar        | 220                   | 111.2           | 24.28        | 2.814                  | 0.04                  |
| 363        | FORT COLONY               | 132kv MESCO MULTAN          | MULTAN         | 290                   | 1.7 .           | 1.00         | 1.712                  | 0.04                  |
| 364        | UMER KOT                  | 132kv ROJHAN                | D.G. KHAN      | 150                   | 175.1           | 30.66        | 1.339                  | 0.04                  |
| 365        | MURGHAI                   | 132kv RAJAN PUR             | D.G. KHAN      | 280                   | 167.7           | 33.32        | 2.719                  | 0.04                  |
| 366        | JHOKE WAINS               | 132kv MAAN KOT              | MULTAN         | 180                   | 8.2             | 2.00         | 2.124                  | 0.04                  |
| 367        | KAMAND                    | 132kv Burewala              | VEHARI         | 310                   | 80.3            | 30.69        | 2.358                  | 0.04                  |
| 368        | NAIWALA                   | 132kv Harrapa               | SAHIWAL        | . 280                 | 91.9            | 30.79        | 2.789                  | 0.04                  |
| 369        | MUSA NAGAR                | 132kv SADIQABAD             | RAHIM YAR KHAN | 160                   | 65.1            | 22.00        | 2.441                  | 0.04                  |
| 370        | RANG PUR                  | 220KV, Mari Sh. Shajra      | BAHAWALPUR     | 160                   | 127.0           | 17.67        | 4.391                  | 0.04                  |
| 371        | VEHOVA                    | 132kv N.A.WALI              | D.G. KHAN      | 150                   | 93.8            | 25.75        | 1.848                  | 0.04                  |
| 372        | AKRAM SHAHEED             | 220KV, Vehari               | VEHARI         | 240                   | 53.7            | 24.52        | 2.871                  | 0.04                  |
| 373        | SHAHEED CHOWK             | 132kv Dahran Wala           | B/Nagar        | 220                   | 83.0            | 22.04        | 2.318                  | 0.04                  |
| 374        | FIRDOUS                   | 132kv Chichawatni           | SAHIWAL        | 220                   | 65.4            | 25.04        | 2.375                  | 0.04                  |
| 375        | Islami Colony             | 132kV BAHAWAL PUR           | BAHAWALPUR     | 280                   | 18.5            | 18.90        | 3.732                  | 0.04                  |
| 376        | FAQIR SHAH                | 132kv Noor Ser              | B/Nagar        | 130                   | 56.1            | 23.21        | 1.250                  | 0.04                  |
| 377        | HUSSAIN ABAD              | 132kv R.Y.KHAN-I            | RAHIM YAR KHAN | 240                   | 109.4           | 27.00        | 2.443                  | 0.04                  |
| 378        | CHABRI BALA               | 132kv D.G.KHAN-I            | D.G. KHAN      | 260                   | 113.7           | 29.52        | 2.558                  | 0.04                  |
| 379        | PIPLY                     | 220KV, Vehari               | VEHARI         | 165                   | 130.2           | 18.20        | 2.536                  | 0.04                  |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                      | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|            |                           |                                   |                |                       |                 |              |                        |                       |
| 380        | HAZOOR ABAD               | 132kv Chichawatni                 | SAHIWAL        | 300                   | 76.9            | 28.47        | 2.740                  | 0.04                  |
| 381        | CHAK-29                   | 132kv Kacha Khuh                  | KHANEWAL       | 280                   | 112.3           | 23.63        | 2.399                  | 0.04                  |
| 382        | BAKANI                    | 132kv DAMMAR WALA                 | MUZAFFARGARH   | 160                   | 104.5           | 21.00        | 1.531                  | 0.04                  |
| 383        | KHOKHAR                   | 132kv INDUSTRIAL ESTATE<br>MULTAN | MULTAN         | 220                   | 90.6            | 23.00        | 1.770                  | 0.04                  |
| 384        | NIZAM ABAD                | 132kv Mian Wali Qureshian         | RAHIM YAR KHAN | 250                   | 98.5            | 28.00        | 1.569                  | 0.04                  |
| 385        | TAKHT MEHAL               | 132kv Noor Ser                    | BAHWALNAGAR    | 200                   | 228.1           | 18.36        | 1.935                  | 0.04                  |
| 386        | MUHAMMAD PUR              | 66KV UCH SHARIF/ Kot<br>Khalifa   | BAHAWALPUR     | 280                   | 195.8           | 21.31        | 2.917                  | 0.04                  |
| 387        | BUKHARA                   | 132kv JAM PUR                     | D.G. KHAN      | 180                   | 220.2           | 14.37        | 0.457                  | 0.04                  |
| 388        | M/ABAD-II                 | 66KV Mecleod Gunj                 | BAHWALNAGAR    | 170                   | 145.3           | 22.16        | 1.026                  | 0.03                  |
| 389        | Sahan wala                | 132kv FAZIL PUR                   | D.G. KHAN      | 220                   | 177.2           | 24.58        | 1.475                  | 0.03                  |
| 390        | SHIKAR PUR                | 132kv RAJAN PUR                   | D.G. KHAN      | 280                   | 176.1           | 24.29        | 1.788                  | 0.03                  |
| 391        | MAHMOOD KOT               | 132kv GUJRAT SOUTH                | MUZAFFARGARH   | 190                   | 148.7           | 19.00        | 1.323                  | 0.03                  |
| 392        | CITY FEEDER               | 132kv Arif Wala                   | SAHIWAL        | 310                   | 10.3            | 2.54         | 0.423                  | 0.03                  |
| 393        | WARANN SERAN              | 66KV K.L.ESSAN                    | MUZAFFARGARH   | 270                   | 211.8           | 25.00        | 2.912                  | 0.03                  |
| 394        | MASOOM SHAH               | 132kv Pak Pattan                  | SAHIWAL        | 310                   | 78.2            | 21.55        | 1.946                  | 0.03                  |
| 395        | K.D.QURESHI               | 132kv GUJRAT SOUTH                | MUZAFFARGARH   | 280                   | 124.7           | 18.00        | 2.237                  | 0.03                  |
| 396        | QATALL PUR                | 132kv Head Sidhnai                | KHANEWAL       | 310                   | 153.1           | 12.64        | 1.948                  | 0.03                  |
| 397        | ΗΟΟΤΑ-CITY                | 132kv Hoota                       | SAHIWAL        | 300                   | 116.8           | 16.70        | 1.298                  | 0.03                  |
| 398        | GYPSUM                    | 132kv SINSA                       | D.G. KHAN      | 220                   | 142.5           | 15.62        | 1.148                  | 0.03                  |

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|------------|---------------------------|-----------------------------|--------------|-----------------------|-----------------|--------------|------------------------|-----------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                | Circle       | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
| 399        | NABI PUR FEEDER           | 132kv UCH SHARIF            | BAHAWALPUR   | 140                   | 154.8           | 9.83         | 0.770                  | 0.03                  |
| 400        | SHEIKH FAZIL              | 132kv Shaikh Fazil          | VEHARI       | 310                   | 88.4            | 12.80        | 1.241                  | 0.03                  |
| 401        | KARAM PUR                 | 134 KV Karam Pur            | VEHARI       | 310                   | 50.3            | 7.50         | 0.700                  | 0.03                  |
| 402        | ISLAM NAGAR               | 132kv QASIM PUR MULTAN      | MULTAN       | 310                   | 11.1            | 4.00         | 0.447                  | 0.03                  |
| 403        | MANZOOR ABAD              | 132kv QASIM BAGH<br>MULTAN  | MULTAN       | 310                   | 5.9             | 3.00         | 0.523                  | 0.03                  |
| 404        | INDUSTRIAL                | 132kv Chichawatni           | SAHIWAL      | 300                   | 32.4            | 10.93        | 1.265                  | 0.03                  |
| 405        | EID GAH                   | 132kv LAYYAH                | MUZAFFARGARH | 290                   | 17.6            | 9.00         | 0.861                  | 0.03                  |
| 406        | LIAQAT SHAHEED            | 132kv Vehari                | VEHARI       | 280                   | 79.4            | 23.22        | 1.928                  | 0.03                  |
| 407        | HALLA                     | 132kv Kameer                | SAHIWAL      | 270                   | 48.8            | 11.33        | 0.743                  | 0.03                  |
| 408        | DUNIA PUR                 | 132kv QASIM PUR MULTAN      | MULTAN       | 250                   | 29.6            | 10.00        | 0.549                  | 0.03                  |
| 409        | NEW HIGH COURT            | 132kv SURAJ MIANI<br>MULTAN | MULTAN       | 250                   | 14.8            | 7.00         | 0.092                  | 0.02                  |
| 410        | SHAH PUR                  | 66KV K.L.ESSAN              | MUZAFFARGARH | 210                   | 214.0           | 18.00        | 2.784                  | 0.02                  |
| 411        | PIR SAWAG                 | 66KV K.L.ESSAN              | MUZAFFARGARH | 200                   | 179.3           | 16.00        | 2.267                  | 0.02                  |
| 412        | Lal Shah                  | 132 KV Qaboola              | VEHARI       | 380                   | 111.7           | 36.22        | 4.084                  | 0.02                  |
| 413        | Noor Pur                  | 132KV Noor Pur              | SAHIWAL      | 380                   | 49.0            | 33.00        | 2.321                  | 0.02                  |
| 414        | Mehdi Khan                | 132KV Qaboola               | VEHARI       | 380                   | 174.6           | 32.06        | 5.020                  | 0.02                  |
| 415        | Shanti Nagar              | 132KV Khanewal              | KHANEWAL     | 380                   | 61.6            | 23.34        | 1.732                  | 0.02                  |
| 416        | Bhadar Pur                | 132KV<br>J.P.P.Wala         | MULTAN       | 380                   | 98.2            | 9.71         | 0.884                  | 0.02                  |
| 417        | Badla Sant                | 132KV Makhdoom Rashid       | MULTAN       | 370                   | 119.5           | 34.06        | 3.299                  | 0.02                  |

| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station              | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|------------|---------------------------|---------------------------|----------------|-----------------------|-----------------|--------------|------------------------|-----------------------|
| 418        | Dokota                    | 132 KV Chak 211/W.B       | VEHARI         | 370                   | 198.9           | 34.00        | 4.400                  | 0.02                  |
| 419        | Nadir Wali                | 132 KV Ludden             | VEHARI         | 370                   | 132.7           | 21.00        | 3.272                  | 0.02                  |
| 420        | Noor Garh                 | 132 KV Chak 211/W.B       | VEHARI         | 340                   | 62.9            | 25.45        | 2.466                  | 0.01                  |
| 421        | Ismail Pur                | 132KV Uch Sharif          | BAHAWALPUR     | 320                   | 126.9           | 46.91        | 8.283                  | 0.01                  |
| 422        | City-III                  | 132 KV jehanian           | KHANEWAL       | 260                   | 61.6            | 23.11        | 0.158                  |                       |
| 423        | RAHIM SHAH                | 132kv JEHANIAN            | KHANEWAL       | 310                   | 131.5           | 43.26        | 7.119                  | 28.300%               |
| 424        | MURADABAD                 | 132kv M/GARH              | MUZAFFARGARH   | 280                   | 86.7            | 36           | 3.719                  | 20.663%               |
| 425        | KAMAL PUR                 | 132kv KHAN GARH           | MUZAFFARGARH   | 280                   | 113.5           | 35           | 4.306                  | 21.518%               |
| 426        | TAILWALA                  | 132kv YAZMAN              | BAHAWALPUR     | 285                   | 124.5           | 33.09        | 2.629                  | 14.132%               |
| 427        | KHAWAJA FAREED            | 132kv SADIQABAD           | RAHIM YAR KHAN | 300                   | 72.1            | 33           | 1.569                  | 12.275%               |
| 428        | MONDKA                    | 132kv MARA KHAS           | MUZAFFARGARH   | 300                   | 125             | 31           | 3.713                  | 20.277%               |
| 429        | PIR JUGGI                 | 66KV KOT SULTAN           | MUZAFFARGARH   | 300                   | 223.2           | 31           | 2.434                  | 16.672%               |
| 430        | SATLUJ                    | 132kv Kehror Pacca        | BAHAWALPUR     | 290                   | 70.6            | 30.66        | 1.988                  | 15.046%               |
| 431        | QUTAB SHAHANA             | 132kv Sahiwal III         | SAHIWAL        | 310                   | 112.7           | 30.52        | 2.375                  | 13.401%               |
| 432        | MOHAR SHARIF              | 132kv Chishtian           | BAHWALNAGAR    | 280                   | 111.8           | 30.09        | 3.482                  | 19.233%               |
| 433        | M.W.Q-11                  | 132kv Mian Wali Qureshian | RAHIM YAR KHAN | 300                   | 124.1           | 30           | 2.045                  | 14.737%               |
| 434        | BUDH DHAKOO               | 132kv Sahiwal Old         | SAHIWAL        | 300                   | 59.7            | 29.49        | 4.221                  | 20.816%               |
| 435        | 65 YAREY WALA             | 132kV Sahiwal New         | SAHIWAL        | 285                   | 74.7            | 28.49        | 2.052                  | 13.479%               |
| 436        | KHAIR PUR SADAT           | 132kv K.P.SADAT           | MUZAFFARGARH   | 280                   | 222             | 28           | 2.551                  | 13.718%               |
| 437        | NMC NO.1                  | 132kv R.Y.KHAN-I          | RAHIM YAR KHAN | 280                   | 69.7            | 28           | 1.573                  | 12.404%               |
| 438        | NEW MATTITAL              | 132kv MAAN KOT            | MULTAN         | 285                   | 108.7           | 27           | 1.610                  | 13.658%               |
| 439        | GOTH MEHRAB               | 220KV, Mari Sh. Shajra    | BAHAWALPUR     | 310                   | 156.2           | 26.92        | 1.903                  | 11.364%               |
| 440        | ROHI                      | 66KV MAROOT               | BAHWALNAGAR    | 300                   | 75.7            | 26.81        | 1.741                  | 11.838%               |
| 441        | 88/15-L                   | 132kv Kacha Khuh          | KHANEWAL       | 315                   | 157.1           | 26.1         | 0.769                  | 9.821%                |
| 442        | MUMDOAT                   | 132kv Mianchannu          | KHANEWAL       | 310                   | 94              | 25.5         | 1.627                  | 11.472%               |
| 443        | D.H.Q. LODHRAN            | 132kv LODHRAN             | BAHAWALPUR     | 280                   | 13.4            | 25.41        | 0.142                  | 10.168%               |
| 444        | NEW MOHSINWAL             | 132kV Mianchannu          | KHANEWAL       | 280                   | 92              | 24.98        | 0.948                  | 9.490%                |
| 445        | DALLON BANGLOW            | 132kv Burewala            | VEHARI         | 310                   | 76.6            | 24.02        | 2.186                  | 12.179%               |
| 446        | JALLAH                    | 132kv Dunya Pur           | BAHAWALPUR     | 310                   | 138.1           | 23.36        | 1.964                  | 12.125%               |
| 447        | MUHAMMAD SHAH             | 136 KV Karam Pur          | VEHARI         | 280                   | 78.1            | 22.96        | 1.895                  | 13.117%               |
| 448        | CANAL                     | 132kv SAMMA SATTA         | BAHAWALPUR     | 285                   | 101.7           | 22.89        | 1.825                  | 11.216%               |
| 449        | MEHMOODIA                 | 132kv TueNSA              | D.G. KHAN      | 310                   | 94.7            | 22.41        | 1.510                  | 11.493%               |
| 450        | JAFAR LAL                 | 132kv NAWAZABAD           | RAHIM YAR KHAN | 290                   | 160.9           | 22           | 2.174                  | 13.393%               |

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|------------|---------------------------|---------------------------|----------------|-----------------------|-----------------|--------------|------------------------|-----------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station              | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.É.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
| 451        | BUKHARI WAHIN             | 132ky Kehror Pacca        | BAHAWAI PUR    | 300                   | 94.9            | 21.91        | 1 533                  | 10 214%               |
| 452        | SHAH MURAD                | 132ky Harrapa             | SAHIWAL        | 280                   | 62.9            | 21.64        | 2 229                  | 13 242%               |
| 453        | BASTI MALOOK              | 132ky SHUJABAD            | MULTAN         | 300                   | 93.1            | 21           | 2.463                  | 12,218%               |
| 454        | ALLAHABAD(CITY-2          | 132kv LIAQAT PUR          | RAHIM YAR KHAN | 280                   | 84.4            | 21           | 2.409                  | 12.704%               |
| 455        | SCARP NO.8                | 132kv R.Y.KHAN-II         | RAHIM YAR KHAN | 280                   | 121.3           | 21           | 1.784                  | 10.381%               |
| 456        | M.SHAH                    | 132KV KHANEWAL            | KHANEWAL       | 300                   | 94.9            | 20.86        | 3.107                  | 14.812%               |
| 457        | KACHA KHUH CITY           | 132kv Kacha Khuh          | KHANEWAL       | 300                   | 134.7           | 20.75        | 1.258                  | 8.249%                |
| 458        | MUKHDUM RASHID            | 132kv JEHANIAN            | KHANEWAL       | 300                   | 57.4            | 20.09        | 1.767                  | 11.520%               |
| 459        | KOT MELA RAM              | 132KV KHANEWAL            | KHANEWAL       | 280                   | 77.4            | 20           | 1.817                  | 10.285%               |
| 460        | CITY ZAHIR PIR            | 132kv Mian Wali Qureshian | RAHIM YAR KHAN | 280                   | 45.7            | 20           | 1.984                  | 10.941%               |
| 461        | MADINA COLONY             | 132kv Burewala Old        | VEHARI         | 290                   | 79.7            | 18.82        | 1.207                  | 8.130%                |
| 462        | AKBAR ABAD                | 132kv Bati Bangla         | KHANEWAL       | 300                   | 115.6           | 18.52        | 1.942                  | 10.805%               |
| 463        | ADAM WAHAN                | 132kv LODHRAN             | BAHAWALPUR     | 300                   | 65.8            | 18.39        | 1.650                  | 8.603%                |
| 464        | COLLEGE                   | 132kv Chishtian           | BAHWALNAGAR    | 300                   | 64.5            | 18           | 2.467                  | 10.302%               |
| 465        | NAWAN KOT(KP.6)           | 132kv KHAN PUR            | RAHIM YAR KHAN | 310                   | 233.1           | 18           | 2.640                  | 11.619%               |
| 466        | KOHIWALA                  | 132kv KABIR WALA          | KHANEWAL       | 300                   | 106.8           | 17.45        | 1.348                  | 7.770%                |
| 467        | SARWAR SHAHEED            | 132kv Pak Pattan          | SAHIWAL        | 300                   | 46.2            | 17.06        | 0.742                  | 7.425%                |
| 468        | NEW LAR                   | 132kv QASIM PUR MULTAN    | MULTAN         | 280                   | 54              | 17           | 0.725                  | 6.134%                |
| 469        | TIBBI DATA                | 132kv MUBARAK PUR         | BAHAWALPUR     | 300                   | 92.1            | 16.86        | 1.585                  | 9.280%                |
| 470        | TULAMBA                   | 132kv Mianchannu          | KHANEWAL       | 300                   | 70.1            | 16.14        | 1.697                  | 9.157%                |
| 471        | GHULAM HAIDER             | 132kv Pak Pattan          | SAHIWAL        | 300                   | 38.4            | 15.66        | 1.414                  | 8.667%                |
| 472        | NAWAZ ABAD (F.NO          | 132kv SADIQABAD           | RAHIM YAR KHAN | 310                   | 29.3            | 15           | 1.786                  | 10.074%               |
| 473        | CHAK SHAHANA              | 132kv Garha More          | VEHARI         | 300                   | 84.8            | 14.82        | 1.836                  | 11.231%               |
| 474        | QADIR ABAD                | 132kv Qadirabad           | SAHIWAL        | 295                   | 64.3            | 14.76        | 1.552                  | 8.434%                |
| 475        | GALAY WALA                | 132kv LODHRAN             | BAHAWALPUR     | 300                   | 102.6           | 14.09        | 1.159                  | 5.952%                |
| 476        | KOTLA QAIM KHAN           | 132kv K.P.T Wali          | BAHAWALPUR     | 280                   | 122.9           | 13.91        | 1.137                  | 6.973%                |
| 477        | DEWAN DISTGEER            | 132kv Hoota               | SAHIWAL        | 280                   | 71.8            | 13.84        | 1.425                  | 9.419%                |
| 478        | RATTI TIBBI               | 132kv Sahiwal New         | SAHIWAL        | 300                   | 38.5            | 13.43        | 1.267                  | 7.106%                |
| 479        | DAIRY                     | 132kv Sahiwal Old         | SAHIWAL        | 280                   | 71.6            | 13.28        | 0.982                  | 5.973%                |
| 480        | UCH ROAD                  | 132kv A.P.EAST            | BAHAWALPUR     | 310                   | 68.2            | 13.11        | 0.693                  | 6.401%                |
| 481        | ROHILAN WALI              | 132kv MARA KHAS           | MUZAFFARGARH   | 300                   | 48.1            | 13           | 1.307                  | 6.582%                |
| 482        | • TUBEWELL-2              | 132kv BASTI MALOOK        | MULTAN         | 280                   | 60.6            | 13           | 0.829                  | 6.592%                |
| 483        | JINNAH FEEDER             | 132kv R.Y.KHAN-I          | RAHIM YAR KHAN | 310 ·                 | 14.7            | 13 ·         | 2.431                  | 9.264%                |
| 484        | BABA FARID(KAMAN          | 132kv C-83/12L            | VEHARI         | 300                   | 95.9            | 12.39        | 0.941                  | 5.899%                |
| 485        | JINNAH                    | 132kv BAGHDAD-UL-JADID    | BAHAWALPUR     | 280                   | 28.1            | 11.9         | 0.579                  | 6.476%                |
| 486        | JHANGI WALA               | 132kv BAGHDAD-UL-JADID    | BAHAWALPUR     | 310                   | 124.1           | 11.87        | 1.132                  | 5.524%                |
| 487        | ABBASIA                   | 132kv A.P.EAST            | BAHAWALPUR     | 290                   | 28.5            | 11.81        | 1.725                  | 8.167%                |
| 488        | JALLAH Jeem               | 132ky Mailsi              | VEHARI         | 300                   | 62.6            | 11.64        | 0.713                  | 4.956%                |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                    | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D     | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|------------|---------------------------|---------------------------------|----------------|-----------------------|-----------------|------------------|------------------------|-----------------------|
| 489        | TUBEWELL                  | 132kv K.P.T Wali                | BAHAWALPUR     | 280                   | 53.3            | 11.39            | 0.735                  | 5.461%                |
| 490        | <b>TIBBA SULTAN PUR 2</b> | 132kv JEHANIAN                  | VEHARI         | 280                   | 78.3            | 11.24            | 0.640                  | 4.451%                |
| 491        | INDUSTRIAL                | 132kv Chichawatni               | SAHIWAL        | 300                   | 32.4            | 10.93            | 1.265                  | 5.814%                |
| 492        | MAIZ FORM                 | 500/220, Yousuf Wala            | SAHIWAL        | 290                   | 53.6            | 10.67            | 1.302                  | 5.756%                |
| 493        | KALA                      | 132kv SHAHDAN LUND              | D.G. KHAN      | 290                   | 129.3           | 10.52            | 1.114                  | 5.715%                |
| 494        | BASTI BALAIL              | <b>kv INDUSTRIAL ESTATE MUL</b> | MULTAN         | 310                   | 67.6            | 10               | 1.160                  | 5.207%                |
| 495        | F.NO-4                    | 132kv SADIQABAD                 | RAHIM YAR KHAN | 300                   | 84.9            | 10               | 1.395                  | 7.017%                |
| 496        | BALHE-WALA                | 132kv Sahiwal Old               | SAHIWAL        | 300                   | 40              | 9.79             | 1.118                  | 5.505%                |
| 497        | DAHER                     | 32kv WAPDA TOWN MULTAN          | MULTAN         | 300                   | 32.9            | 9                | 1.384                  | 6.517%                |
| 498        | NAURANG ABAD              | 132kv D.G.KHAN-I                | D.G. KHAN      | 280                   | 8.5             | 8.91             | 1.103                  | 6.549%                |
| 499        | CITY GALLAY WAL           | 132kv MIRAN PUR                 | BAHAWALPUR     | 300                   | 55.3            | 8.59             | 1.013                  | 5.555%                |
| -500       | SARGHANA                  | 132kv Mailsi                    | VEHARI         | 310                   | 73.9            | 8.46             | 0.408                  | 3.207%                |
| 501        | NEW FAROOQ PURA           | 132kv JAIL ROAD MULTAN          | MULTAN         | 300                   | 12.3            | 8                | 0.977                  | 5.736%                |
| 502        | HOOT WALA                 | 132kv BAHAWAL PUR CANTT         | BAHAWALPUR     | 280                   | 66.5            | 7.23             | 0.977                  | 5.155%                |
| 503        | CITY-II                   | 132kv LAYYAH                    | MUZAFFARGARH   | 290                   | 15.6            | 7                | 0.527                  | 3.555%                |
| 504        | CANTT                     | <b>kv INDUSTRIAL ESTATE MUL</b> | MULTAN         | 300                   | 6.4             | 7                | 0.579                  | 3.044%                |
| 505        | SAMIJABAD                 | 132kv VEHARI ROAD               | MULTAN         | 310                   | 13.4            | 7                | 0.572                  | 3.713%                |
| 506        | A.T.M.2                   | 132kv R.Y.KHAN-I                | RAHIM YAR KHAN | 280                   | 6.7             | 7                | 0.184                  | 2.286%                |
| 507        | SIDHNAI                   | 132kV Head Sidhnai              | KHANEWAL       | 300                   | 43.4            | 6.99             | 0.322                  | 3.012%                |
| 508        | GULSHAN IQBAL             | 132kv Arif Wala                 | SAHIWAL        | 280                   | 12.6            | 6.78             | 0.921                  | 5.315%                |
| 509        | SUNDDAY KHAN              | 132kv Pak Pattan                | SAHIWAL        | 280                   | 23.9            | 6.77             | 0.789                  | 4.667%                |
| 510        | CITY-02                   | 132kv Sahiwal Old               | SAHIWAL        | 300                   | 8.5             | 6.67             | 0.681                  | 4.416%                |
| 511        | SHAKIR TOWN               | 132kv D.G.KHAN-II               | D.G. KHAN      | 315                   | 11.7            | 6.63             | 0.735                  | 3.930%                |
| 512        | COLONY FEEDER             | 132KV KHANEWAL                  | KHANEWAL       | 300                   | 19.1            | 6.46             | 0.794                  | 3.888%                |
| 513        | CITY-IST                  | 132kv Haroon Abad               | BAHWALNAGAR    | 300                   | 24.9            | 6.08             | 0.567                  | 3.170%                |
| 514        | GARDEN TOWN               | <b>kv INDUSTRIAL ESTATE MUL</b> | MULTAN         | 300                   | 16.6            | 6                | 0.905                  | 4.126%                |
| 515        | FAZAL CLOTH MILL          | 2kv KHANEWAL ROAD MULT          | MULTAN         | 280                   | 6               | <u>6 ·</u>       | 0.005                  | 1.855%                |
| 516        | GULBERG CLNY              | 132kv QASIM PUR MULTAN          | MULTAN         | 280                   | 8.5             | 6                | 1.701                  | 6.100%                |
| 517        | NEW MUMTAZ ABAD           | 132kv VEHARI ROAD               | MULTAN         | 280                   | 10.1            | .6               | 0.448                  | 1.925%                |
| 518        | LAHORE ROAD               | 500/220, Yousuf Wala            | SAHIWAL        | 280                   | 12              | 5.88             | 0.588                  | 3.317%                |
| 519        | BAHAWAL                   | 132kv BAHAWAL PUR CANTT         | BAHAWALPUR     | 280                   | 15.5            | 5.56             | 0.371                  | 2.476%                |
| 520        | CITY-2                    | 132KV KHANEWAL                  | KHANEWAL       | 300                   | 14.5            | 5.48             | 0.876                  | 3.713%                |
| 521        | MUZAFFAR GARH             | 132kv M/GARH                    | MUZAFFARGARH   | 280                   | 42.4            | 5                | 0.642                  | 3.122%                |
| 522        | SABZA ZAR                 | 32kv BOSAN ROAD MULTAN          | MULTAN         | 300                   | 10.4            | 5                | 0.623                  | 2.870%                |
| 523        | F.C.M-3                   | 2kv KHANEWAL ROAD MULT          | MULTAN         | 300                   | 5.1             | <u>     5   </u> | 0.025                  | 1.143%                |
| 524        | CITY LIAQAT PUR           | 132kv LIA T PUR                 | RAHIM YAR KHAN | 300                   | 11.1            | 5                | 0.736                  | 3.777%                |
| 525        | JINAH TOWN                | 132ky SADIQABAD                 | RAHIM YAR KHAN | 280                   | 1 10.6          | 5                | 0.532                  | 2.924%                |

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|        |                  |                         |                                       |                                                                             |        | •     |        | ``      |
| Sr.    | 11KV Feeder /    | 0.11.04.4               |                                       | Max. Load                                                                   | Length | % age | A.E.   | % age   |
| No.    | Proposal         | Grid Station            | Circie                                | Recorded                                                                    | (K.M)  | V.D   | LOSS   | A.E.    |
|        |                  |                         |                                       | ${\cal L} = \{ {\cal L} : {\cal L} \in {\cal L} : {\cal L} \in {\cal L} \}$ | . ,    |       | (MKWH) | Loss    |
| 1.<br> |                  |                         |                                       |                                                                             |        |       |        |         |
| 526    | MASHOOM SHAH     | 132kv Burewala          | VEHARI                                | 290                                                                         | 15.5   | 4.21  | 0.453  | 2.602%  |
| 527    | BABA QUTAB SHAH  | 132kv Kameer            | SAHIWAL                               | 280                                                                         | 18     | 4.09  | 1,906  | 11 493% |
| 528    | CITY CHOWK AZAM  | 132ky CHOWK AZAM        | MUZAFFARGARH                          | 290                                                                         | 32     | 4     | 0.417  | 2.608%  |
| 529    | NEW HAFIZ JAMAL  | 132kv QASIM BAGH MULTAN | MULTAN                                | 280                                                                         | 7      | 4     | 0.697  | 2.932%  |
| 530    | RASHID ROAD      | 132kv QASIM PUR MULTAN  | MULTAN                                | 300                                                                         | 8.8    | 4     | 0.762  | 3.308%  |
| 531    | S.M.FOODS        | 132kv QASIM PUR MULTAN  | MULTAN                                | 280                                                                         | 4      | 4     | 0.594  | 2.409%  |
| 532    | NEW MULTAN       | 132kv VEHARI ROAD       | MULTAN                                | 300                                                                         | 10.5   | 4     | 0.407  | 2.523%  |
| 533    | SHADMAN          | 132kv Sahiwal New       | SAHIWAL                               | 280                                                                         | 10.1   | 3.78  | 0.475  | 2.753%  |
| 534    | CITY(AR-1)       | 132kv Minchin Abad      | BAHWALNAGAR                           | 310                                                                         | 16.1   | 3.65  | 0.569  | 3.096%  |
| 535    | Model Town-C     | 132kV BAHAWAL PUR       | BAHAWALPUR                            | 280                                                                         | 6.2    | 3.62  | 0.891  | 3.735%  |
| 536    | SUTLAJ           | 132kv BAHAWAL PUR       | BAHAWALPUR                            | 310                                                                         | 91.8   | 3.6   | 0.366  | 2.196%  |
| 537    | BADAR-UD-DIN SHA | 132kv BAHAWAL PUR       | BAHAWALPUR                            | 290                                                                         | 12     | 3.58  | 0.392  | 1.966%  |
| 538    | CITY DUNIYA PUR  | 132kv Dunya Pur         | BAHAWALPUR                            | 300                                                                         | 7.8    | 3.23  | 0.388  | 2.075%  |
| 539    | POWER HOUSE      | 132kv Arif Wala         | SAHIWAL                               | 300                                                                         | 9.8    | 3.18  | 0.470  | 2.740%  |
| 540    | BURA ROAD        | 132kV Mianchannu        | KHANEWAL                              | 300                                                                         | 8.3    | 3.16  | 0.066  | 1.703%  |
| 541    | CITY (T/W.5)     | 132kv JATOI             | MUZAFFARGARH                          | 300                                                                         | 15.3   | 3     | 0.498  | 2.707%  |
| 542    | WHITE HOUSE      | 132kv JAIL ROAD MULTAN  | MULTAN                                | 300                                                                         | 22.4   | 3     | 0.366  | 1.988%  |
| 543    | EID GAH ROAD     | 32kv BOSAN ROAD MULTAN  | MULTAN                                | 300                                                                         | 9.2    | 3     | 0.402  | 2.157%  |
| 544    | GULGASHT COLONY  | 32kv BOSAN ROAD MULTAN  | MULTAN                                | 300                                                                         | 10     | 3     | 0.589  | 2.513%  |
| 545    | BOHER GATE       | 132kv MESCO MULTAN      | MULTAN                                | 300                                                                         | 8.2    | 3.    | 0.281  | 1.700%  |
| 546    | S/RUKAN-E-ALAM   | 132kv VEHARI ROAD       | MULTAN                                | 310                                                                         | 7.2    | 3     | 0.474  | 2.589%  |
| 547    | CHAK 85          | 132kv Sahiwal New       | SAHIWAL                               | 280                                                                         | 10.8   | 2.87  | 0.362  | 2.287%  |
| 548    | CITY KEHROR PACC | 132kv Kehror Pacca      | BAHAWALPUR                            | 290                                                                         | 10.3   | 2.58  | 0.215  | 1.281%  |
| 549    | MASOOD FABRICS   | 132kv KABIR WALA        | KHANEWAL                              | 280                                                                         | 1.3    | 2.55  | 0.017  | 0.869%  |
| 550    | R.T.M-II         | 2kv KHANEWAL ROAD MULT. | MULTAN                                | 290                                                                         | 1.9    | 2     | 0.004  | 0.464%  |
| 551    | ISMAILABAD       | 132kv MESCO MULTAN      | MULTAN                                | 280                                                                         | 17.9   | 2     | 0.356  | 1.959%  |
| 552    | MODEL TOWN B     | 132kv BAHAWAL PUR       | BAHAWALPUR                            | 290                                                                         | 9.6    | 1.91  | 0.241  | 1.213%  |
| 553    | CITY -II         | 132kv Burewala          | VEHARI                                | 300                                                                         | 10.3   | 1.73  | 0.196  | 1.035%  |
| 554    | MULTAN ROAD      | 132kv Sahiwal Old       | SAHIWAL                               | 300                                                                         | 11     | 1.5   | 0.337  | 1.692%  |
| 555    | MODEL TOWN-II    | 132kv D.G.KHAN-II       | D.G. KHAN                             | 300                                                                         | 17.4   | 0.9   | 2.525  | 14.777% |
| 556    | LAL EASON        | 66KV K.L.ESSAN          | MUZAFFARGARH                          | 300                                                                         | 1.9    | 0.39  | 0.308  | 12.935% |
| 557    | CITY-4           | 132kv Burewala          | VEHARI                                | 310                                                                         | 9.2    | 0.14  | 0.111  | 0.820%  |
| 558    | F.PUR KAMAL (KB- | 132kv KHAN BELA         | RAHIM YAR KHAN                        | 330                                                                         | 225.9  | 55    | 6.273  | 27.644% |
| 559    | TUBEWELL-5+6     | 132kv KOT ADDU          | MUZAFFARGARH                          | 400                                                                         | 126.5  | 49    | 9.656  | 26.694% |
| 560    | KASSOWAL OLD     | 132kv Mianchannu        | KHANEWAL                              | 390                                                                         | 113.3  | 48.14 | 4.383  | 20.575% |
| 561    | KOT SAMABA(F/ABA | 132kv KHAN PUR          | RAHIM YAR KHAN                        | 380                                                                         | 105.4  | 48    | 6.258  | 23.630% |
| 562    | NEW SHERWALA     | 132kv Shaikh Fazil      | SAHIWAL                               | 360                                                                         | 142.2  | 42.82 | 5.236  | 22.428% |
| 563    | SHOUQ ELAHI      | 132ky Chishtian         | BAHWALNAGAR                           | 340                                                                         | 122.1  | 42.37 | 4.485  | 23.325% |

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| Sr. |                           |                         |                |                       |                 |              | ΔF             | % age   |
|-----|---------------------------|-------------------------|----------------|-----------------------|-----------------|--------------|----------------|---------|
| No. | 11KV Feeder /<br>Proposal | Grid Station            | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | Loss<br>(MKWH) | A.E.    |
| 564 |                           |                         |                | 205                   | 170.1           | A 1          | 6 272          | 22 7540 |
| 565 | EXPRESS-2                 |                         | RAHIM YAR KHAN | 380                   | 195             | <u> </u>     | 5 743          | 22.131  |
| 566 | SCARP-D (SCARP)           | 132ky Bahawal Nagar     | BAHWAI NAGAR   | 390                   | 191.2           | 39.11        | 5 915          | 25.003  |
| 567 | NEW TIBBLOAISRA           | 132ky N A WALL          | DG KHAN        | 360                   | 175.9           | 38.71        | 4 369          | 18 312  |
| 568 | AMEEN SHAHEED             | 132kV YAZMAN            | BAHAWAI PUR    | 175                   | 124.5           | 36.74        | 0.003          | 10.012  |
| 569 | ADEEB SHAHEED             | 132ky Chichawatni       | SAHIWAI        | 320                   | 104 1           | 36.65        | 1 594          | 12 316  |
| 570 | OLD KACHAKHU              | 132kv Mianchannu        | KHANEWAI       | 350                   | 118.8           | 36.02        | 3 890          | 19 429  |
| 571 | AZEEM WAH                 | 132kv Chishtian         | BAHWALNAGAR    | 320                   | 144.1           | 35.84        | 3 793          | 19,711  |
| 572 | AHMAD YAR                 | 132kv Qaboola           | SAHIWAL        | 390                   | 108.2           | 35.78        | 3.035          | 16.095  |
| 573 | BODLA FEEDER              | 132kv Mianchannu        | KHANEWAL       | 360                   | 120.2           | 34.85        | 2.664          | 16.247  |
| 574 | MOHSAN WAL                | 132kv Mianchannu        | KHANEWAL       | 370                   | 119.5           | 34.06        | 3.299          | 16.268  |
| 575 | RATTA TIBBA               | 132kv Vehari            | VEHARI         | 340                   | 108.9           | 34.05        | 2.540          | 16.452  |
| 576 | BAHADARPUR                | 32kv JALAL PUR PIR WALA | MULTAN         | 370                   | 198.9           | 34           | 4.400          | 16.329  |
| 577 | CHAMAN                    | 132kv SADIQABAD         | RAHIM YAR KHAN | 270                   | 114.8           | 34 .         | 0.272          | 9.5129  |
| 578 | JANAH TOWN                | 132kv Harrapa           | SAHIWAL        | 390                   | 132.7           | 33.19        | 4.698          | 19.831  |
| 579 | MEHMOOD                   | 132kv Minchin Abad      | BAHWALNAGAR    | 220                   | 112.7           | 31.78        | 2.007          | 17.469  |
| 580 | FIDAI SHAH                | 132kv Minchin Abad      | BAHWALNAGAR    | 320                   | 133.5           | 31.18        | 2.721          | 18.217  |
| 581 | . HATHEJI                 | 132kv A.P.EAST          | BAHAWALPUR     | 350                   | 132.8           | 30.84        | 2.456          | 15.623  |
| 582 | KHALIQ WALI               | 132kV MAAN KOT          | KHANEWAL       | 200                   | 164.6           | 30.09        | 0.565          | 11.675  |
| 583 | T.P.LINK+8+9              | 132kv KOT ADDU          | MUZAFFARGARH   | 270                   | 201.7           | 30           | 3.020          | 14.511  |
| 584 | RIAZ ABAD                 | 2kv KHANEWAL ROAD MULT  | MULTAN         | 260                   | 111.9           | 30           | 0.506          | 7.8099  |
| 585 | SHAHI WALA                | 132kv A.P.EAST          | BAHAWALPUR     | 350                   | 192.3           | 29.77        | 2.525          | 14.745  |
| 586 | H/PUR                     | 132kv FAZIL PUR         | D.G. KHAN      | 200                   | 262.6           | 29.68        | 1.121          | 13.150  |
| 587 | DULLO BANGALOW            | 132kv Mianchannu        | KHANEWAL       | 380                   | 101.8           | 29.51        | 2.923          | 12.861  |
| 588 | LOOTHER                   | 2kv KHANEWAL ROAD MULT  | MULTAN         | 395                   | 160.7           | 29           | 2.271          | _11.780 |
| 589 | RAWANI                    | 132kv BASTI MALOOK      | BAHAWALPUR     | 200                   | 101.4           | 28.41        | 0.521          | 11.395  |
| 590 | PUNJNAD FEEDER            | 132kv UCH SHARIF        | BAHAWALPUR     | 350                   | 165.7           | 28.4         | 2.360          | 13.407  |
| 591 | HUKAM DIN                 | 132kV LODHRAN           | BAHAWALPUR     | 260                   | 122.9           | 27.26        | 1.810          | 14.039  |
| 592 | MUSHIAQ ABAD              | 132kv LAYYAH            | MUZAFFARGARH   | 200                   | 104             | 27           | 1.442          | 13.545  |
| 593 | SHAH GARH (SCARP          | 132kv R.Y.KHAN-II       | KAHIM YAR KHAN | 245                   | 163.5           | 27           | 2.780          | 16.757  |
| 594 | VVARIS SHAH               | 132kv Noor Pur          | SAHIWAL        | 340                   | 115.8           | 26.89        | 2.657          | 14.946  |
| 595 | BAILSUNTRA                | 132kv RAJAN PUR         | D.G. KHAN      | 160                   | 129.3           | 26.78        | 2.262          | 22.030  |
| 596 |                           | 132kv Mailsi            | VEHARI         | 380                   | 118.4           | 26.51        | 2.433          | 12.524  |
| 59/ | WALLHAR                   | 132kv Fort Abbas        | BAHVVALNAGAR   | 260                   | 182.9           | 26.19        | 1.983          | 11.1/0  |
| 298 | GHAZI GHATT               | 132KV GUJKAT SOUTH      |                | 240                   | 162             | 26           | 3.655          | 19.217  |
| 599 | PAIGAN                    | 132KV D. HAN-I          | D.G. KHAN      | 390                   | 180.9           | 25.83 •      | 2.859          | 13.512  |
| 600 | KUTLA MOSA KHAN           | 132KV A. MEASI          | BAHAWALPUR     | 330                   | 1/4.3           | 25.81        | 1.430          | 9.035%  |

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|------------|---------------------------|---------------------------|----------------|-----------------------|-----------------|--------------|------------------------|-----------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station              | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|            |                           |                           |                |                       |                 |              |                        |                       |
| 602        | JAMAL PUR                 | 132kv Hasil Pur           | BAHAWALPUR     | 250                   | 167.3           | 25.24        | 2.004                  | 13.488%               |
| 603        | LATTI FEEDER              | 132kv Ali Pur             | MUZAFFARGARH   | 220                   | 115.8           | 25           | 2.208                  | 14.877%               |
| 604        | MAITILA (T.W.5)           | 132kv LIAQAT PUR          | RAHIM YAR KHAN | 260                   | 173.3           | 25           | 2.559                  | 15.251%               |
| 605        | GHULAM HUSSAIN            | 132kv Garha More          | VEHARI         | 330                   | 105.3           | 24.2         | 3.028                  | 13.661%               |
| 606        | SHAHER SULTAN             | 132kv DAMMAR WALA         | MUZAFFARGARH   | 390                   | 107.3           | 24           | 2.491                  | 11.039%               |
| 607        | KACHA RAZI                | 132kv J.D.WALI            | RAHIM YAR KHAN | 240                   | 112.7           | 24           | 2.097                  | 14.928%               |
| 608        | HAMID ABAD(KB-1)          | 132kv KHAN BELA           | RAHIM YAR KHAN | 250                   | 140.9           | 24           | 2.080                  | 13.241%               |
| 609        | SYPHON                    | 132kv Mailsi              | VEHARI         | 380                   | 142.8           | 23.76        | 3.203                  | 12.240%               |
| 610        | KHAN PUR(BAGGA S          | 132kv M/GARH              | MUZAFFARGARH   | 230                   | 198.1           | 23           | 2.169                  | 13.567%               |
| 611        | CHOWK CHADAR              | 132kv NAWAZABAD           | RAHIM YAR KHAN | 340                   | 104.4           | 23           | 2.532                  | 11.996%               |
| 612        | CITY II-JAHANIAN          | 132ky JEHANIAN            | KHANEWAL       | 390                   | 109.6           | 22.87        | 2.096                  | 8.226%                |
| 613        | I FGHARI                  | 66KV CHOTI                | D.G. KHAN      | 180                   | 120.5           | 22.75        | 1.467                  | 13 574%               |
| 614        | CHAK-NO 95                | 132ky Mianchannu          | KHANEWAL       | 360                   | 132.8           | 22.45        | 2.031                  | 9.485%                |
| 615        | KOTI A MUGHLAN            | 132ky JAM PUR             | D.G. KHAN      | 150                   | 112.3           | 22.14        | 0.854                  | 11 300%               |
| 616        | INDUS                     | 132ky FATEH PUR           | MUZAFFARGARH   | 240                   | 107.4           | 22:11        | 1 744                  | 11.981%               |
| 617        | SHOLIKAT WALA             | 132ky FATEH PUR           | MUZAFFARGARH   | 190                   | 136.2           | 22           | 1 223                  | 11 285%               |
| 618        |                           | 132ky Mian Wali Oureshian | RAHIM YAR KHAN | 260                   | 109.5           | 22           | 2 351                  | 13 729%               |
| 619        |                           | 132ky Noor Ser            | BAHWAI NAGAR   | 140                   | 107             | 21.36        | 0.904                  | 10.619%               |
| 620        | TARKU                     | 132ky CHOBARA             | MUZAFFARGARH   | 180                   | 270.3           | 21.00        | 1 280                  | 11 525%               |
| 621        | BUDHLA SANT               | 132ky MAKHDOOM BASHID     | MULTAN         | 370                   | 132.7           | 21           | 3 272                  | 14 803%               |
| 622        | THATH GHAI WAN            | 132ky MIRAN PUR           | MULTAN         | 200                   | 104.6           | 21           | 0.435                  | 8 533%                |
| 623        |                           | 132ky SHUJABAD            | MULTAN         | 270                   | 132.1           | 21           | 1 596                  | 11 640%               |
| 624        | AMIN ABAD (F 2)           | 132kv FEROZA              | RAHIM YAR KHAN | 220                   | 173.8           | 21           | 2 540                  | 16 220%               |
| 625        | GARAH MORE                | 132ky Garba More          | VEHARI         | 380                   | 102.8           | 20.63        | 2 306                  | 9 556%                |
| 626        | NARI                      | 132ky TOLINSA             | DG KHAN        | 180                   | 195.4           | 20.33        | 1 382                  | 14 543%               |
| 627        | RANG PUR (F.NO.5          | 132ky   D WALL            | RAHIM YAR KHAN | 380                   | 100.6           | 20.00        | 2 763                  | 11 290%               |
| 628        | Zaki nagar                | 132ky SANJAR PUR          | RAHIM YAR KHAN | 150                   | 158.1           | 20           | 0.513                  | 8 575%                |
| 629        | ALLTAREEN                 | 132ky LODHRAN             | BAHAWAI PUR    | 160                   | 105.1           | 19.99        | 0.973                  | 12 376%               |
| 630        |                           | 132ky Dunya Pur           | BAHAWAI PUR    | 220                   | 117             | 19.00        | 1 866                  | 13 144%               |
| 631        | SAMINA                    | 132kv D G KHAN-I          |                | 260                   | 123             | 19.80        | 2 183                  | 14 043%               |
| 632        | CHANNAN PIR               | 132ky YA7MAN              | BAHAWAI PLIR   | 170                   | 126.9           | 19.75        | 1 670                  | 12 387%               |
| 633        | CHAK 81/15                | 132ky Kacha Khuh          | KHANF\\/AI     | 240                   | 157.1           | 19.70        | 2 474                  | 12.00776              |
| 634        | SHITAN                    | 132ky Shaikh Fazil        | VEHARI         | 400                   | 124.8           | 10.0         | 1 641                  | 7 983%                |
| 625        |                           |                           | MITAFEARCAPH   | 180                   | 107.1           | 10.1         |                        | 10 006%               |
| 626        |                           |                           |                | 240                   | 1127            | 10           | 1/58                   | 11 2580/              |
| 030        |                           | 122ky BASTI MALOOK        |                | 200                   | 1/2.7           | 19 55        | 2 1.400                | 0.0200/               |
| 630        |                           |                           |                | <u></u>               | 142.9           | 10.00        | 0.812                  | J.JZ070               |
| 030        |                           |                           |                | 120                   | 111.0           | 10.40        | 1 000                  | 10.2050/              |
| 039        | I PIKAUL                  | 1 132KV 3.3.DIN           |                | 190                   | 111.9           | 10.40        | 1 1.000                | 10.29070              |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station              | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.<br>Loss<br>(MKWH) | % age<br>A.E.<br>Loss |
|------------|---------------------------|---------------------------|----------------|-----------------------|-----------------|--------------|------------------------|-----------------------|
| 640        | ASRANI                    | 132kv K.P.T Wali          | BAHAWALPUR     | 350                   | 140.1           | 18.34        | 1.537                  | 8.526%                |
| 641        | 11-KV SITHARI             | 132kv JATOI               | MUZAFFARGARH   | 160                   | 114.6           | 18           | 1.072                  | 10.904%               |
| 642        | NEW QATAL PUR             | 132kv Bati Bangla         | KHANEWAL       | 200                   | 103.7           | 17.66        | 1.593                  | 11.210%               |
| 643        | JAT WALA                  | 132kv TOUNSA              | D.G. KHAN      | 170                   | 125.4           | 17.36        | 0.949                  | 9.374%                |
| 644        | MEERANA                   | 132kV A.P.EAST            | BAHAWALPUR     | 150                   | 128.7           | 17.16        | 0.257                  | 6.126%                |
| 645        | TUBEWELL-3                | 132kv KOT ADDU            | MUZAFFARGARH   | 180                   | 125.1           | 17           | 1.412                  | 10.754%               |
| 646        | REHMAN GARH               | 132kv Head Sidhnai        | KHANEWAL       | 220                   | 110.2           | 16.08        | 1.005                  | 7.066%                |
| 647        | KAROR                     | 132kv LAYYAH              | MUZAFFARGARH   | 200                   | 170.6           | 16           | 1.439                  | 10.983%               |
| 648        | Jaffarabad                | 32kv JALAL PUR PIR WALA   | MULTAN         | 230                   | 115             | 16           | 0.328                  | 5.364%                |
| 649        | PACCA LARAN (KB-          | 132kv KHAN BELA           | RAHIM YAR KHAN | 170                   | 115.4           | 16           | 1.016                  | 10.265%               |
| 650        | ·K.M.KHAN(T/W.2)          | 132kv LIAQAT PUR          | RAHIM YAR KHAN | 180                   | 132.2           | 16           | 0.938                  | 8.555%                |
| 651        | DARI MEERO                | 132kv D.G.KHAN-I          | D.G. KHAN      | 200 .                 | 133.4           | 15.8         | 0.860                  | 7.479%                |
| 652        | FREID                     | 132kv Shaikh Fazil        | VEHARI         | 380                   | 110.9           | 15.66        | 1.873                  | 9.616%                |
| 653        | DOULAT ABAD               | 132kv Ludden              | VEHARI         | 400                   | 140.1           | 15.43        | 1.528                  | 7.027%                |
| 654        | PULL FAROOQ ABAD          | 132kV MUBARAK PUR         | BAHAWALPUR     | 270                   | 105.2           | 15.19        | 0.063                  | 3.758%                |
| 655        | RAM PUR                   | 132kv JATOI               | MUZAFFARGARH   | 170                   | 136.7           | 15           | 0.867                  | 9.263%                |
| 656        | HAROON ABAD (KB-          | 132kv KHAN BELA           | RAHIM YAR KHAN | 170                   | 121.7           | 15           | 1.338                  | 10.993%               |
| 657        | ABAD PUR                  | 132kv Mian Wali Qureshian | RAHIM YAR KHAN | 150                   | 124.4           | 15           | 0.814                  | 9.327%                |
| 658        | ASIF PULLY                | 132kv FATEH PUR           | MUZAFFARGARH   | 180                   | 101.5           | 14           | 0.690                  | 7.406%                |
| 659        | SEET PUR                  | 132kv K.P.SADAT           | MUZAFFARGARH   | 220                   | 102             | 14           | 1.191                  | 7.780%                |
| 660        | BENAZIR                   | 132kv LODHRAN             | BAHAWALPUR     | 380                   | 107.5           | 13.7         | 1.279                  | 5.871%                |
| 661        | KALLAR WALI               | 132kv DAMMAR WALA         | MUZAFFARGARH   | 200                   | 129.3           | 13           | 1.225                  | 9.299%                |
| 662        | HEAD TATAR                | 132kv FATEH PUR           | MUZAFFARGARH   | 120                   | 123.3           | 13           | 0.516                  | 6.965%                |
| 663        | DIBBI SHAH                | 132kv GUJRAT SOUTH        | MUZAFFARGARH   | 200                   | 140.1           | 13           | 1.268                  | 8.770%                |
| 664        | HEAD FAREED               | 132kv FEROZA              | RAHIM YAR KHAN | 140                   | 138.3           | 13           | 0.186                  | 4.555%                |
| 665        | SHERO                     | 132kv KOT CHUTTA          | D.G. KHAN      | 150                   | 120.8           | 12.72        | 0.572                  | 6.913%                |
| 666        | SHADAN LUND               | 132kv SHAHDAN LUND        | D.G. KHAN      | 180                   | 150             | 12.66        | 0.890                  | 7.913%                |
| 667        | WAINS FEEDER              | 132kv Faqir Wali          | BAHWALNAGAR    | 100                   | 111.6           | 12.57        | 0.743                  | 9.174%                |
| 668        | JHOK UTTRA                | 132kv KOT CHUTTA          | D.G. KHAN      | 200                   | 124.8           | 12.47        | 0.756                  | 6.380%                |
| 669        | TAL PUR                   | 66KV CHOTI                | D.G. KHAN      | 125                   | 124.8           | 12.45        | 0.467                  | 7.479%                |
| 670        | KHAN PUR                  | 132kv A.P.EAST            | BAHAWALPUR     | 210                   | 107.3           | 11.8         | 0.875                  | 7.347%                |
| 671        | KABIRA PULLY              | 132kv K.P.T Wali          | BAHAWALPUR     | 160                   | 104.5           | 11.77        | 0.824                  | 8.050%                |
| 672        | QILA DARAWAR              | 132kv A.P.EAST            | BAHAWALPUR     | 140                   | 126.6           | 11.55        | 0.516                  | 5.662%                |
| 673        | PEER ASGHAR ALI           | 132KV KHANEWAL            | KHANEWAL       | 220                   | 102.4           | 11.52        | 1.643                  | 7.425%                |
| 674        | TUBEWELL-4                | 132kv KOT ADDU            | MUZAFFARGARH   | 240                   | 132.6           | 11 .         | 1.468                  | 8.262%                |
| 675        | MALKANI (KB-3)            | 132kv KHAN BELA           | RAHIM YAR KHAN | 170                   | 105.7           | 11           | 0.874                  | 7.459%                |
| 676        | RAIKH BAGH WALA           | 132kv FA PUR              | D.G. KHAN      | 130                   | 171.1           | 10.46        | 0.297                  | 5.196%                |
| 677        | OLD H PUR                 | 132ky Hasil Pur           | BAHAWALPUR     | 270                   | 105.4           | 10.29        | 1.097                  | 6.648%                |

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|------------|---------------------------|------------------------------|----------------|-----------------------|-----------------|-------------------|---------------------------------------|-----------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                 | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D      | A.E.<br>Loss<br>(MKWH)                | % age<br>A.E.<br>Loss |
| 678        | Q.ABAD                    | 2/66KV JAM PUR-DAJAL ROAI    | D.G. KHAN      | 110                   | 102.1           | 10.15             | 0.305                                 | 4 872%                |
| 679        | 32-MORE                   | 66KV HEAD RAJKAN             | BAHAWALPUR     | 150                   | 112.9           | 10.10             | 0.540                                 | 5 402%                |
| 680        | RANG PUR CITY             | 66KV RANG PUR                | MUZAFFARGARH   | 200                   | 119.3           | 10                | 1 190                                 | 8 069%                |
| 681        | RAISE PATHAN(T/W          | 132kv LIAQAT PUR             | RAHIM YAR KHAN | 100                   | 112.6           | 10                | 0.598                                 | 8 192%                |
| 682        | TARANDAH                  | 132kv LIAQAT PUR             | RAHIM YAR KHAN | 240                   | 134.9           | 10                | 1 488                                 | 8 628%                |
| 683        | AL-TAHIR                  | 132kv Hasil Pur              | BAHAWALPUR     | 230                   | 106.1           | 9.94              | 0.909                                 | 5 842%                |
| 684        | RAJKAN                    | 66KV HEAD RAJKAN             | BAHAWALPUR     | 220                   | 173.7           | 9.81              | 1.227                                 | 7 574%                |
| 685        | NOSHEHRAH                 | 66KV DAJAL                   | D.G. KHAN      | 140                   | 119.8           | 9.77              | 0.428                                 | 6.217%                |
| 686        | SAHUKA CITY               | 132kv Sahuka                 | VEHARI         | 180                   | 100             | 9.32              | 0.570                                 | 6.548%                |
| 687        | NOORI LAL                 | 132kv BASTI MALOOK           | BAHAWALPUR     | 120                   | 101.3           | 9.08              | 0.294                                 | 6 168%                |
| 688        | SCARP-3                   | 132kv R.Y.KHAN-I             | RAHIM YAR KHAN | 240                   | 133.2           | 9                 | 1.058                                 | 6.179%                |
| 689        | TUBEWELL NO-1             | 132kv M/GARH                 | MUZAFFARGARH   | 200                   | 120.7           | 8                 | 0.801                                 | 4.848%                |
| 690        | 11NOOR PUR                | 66KV HEAD RAJKAN             | BAHAWALPUR     | 140                   | 143.6           | 7.49              | 0.640                                 | 6.074%                |
| 691        | N/KOT                     | 66kV Nawan Kot               | MUZAFFARGARH   | 100                   | 139.8           | 6                 | 0.104                                 | 2.605%                |
| 692        | BASTI FOUJA               | 132kv JAM PUR                | D.G. KHAN      | 150                   | 113.6           | 5.11 <sup>.</sup> | 0.337                                 | 3.927%                |
| 693        | BASTI JAM                 | 132kv KOT CHUTTA             | D.G. KHAN      | 120                   | 111             | 4.94              | 0.280                                 | 3.731%                |
| 694        | MOHSIN ABAD               | 66KV UCH SHARIF/ Kot Khalifa | BAHAWALPUR     | 130                   | 110.1           | 4.68              | 0.419                                 | 4.093%                |
| 695        | THATTA ROAD               | 132kv Dunya Pur              | BAHAWALPUR     | 260                   | 140.9           | 3.91              | 0.427                                 | 2.956%                |
| 696        | PAK PATAN ROAD(A          | 132kv Minchin Abad           | BAHWALNAGAR    | 120                   | 109.9           | 2.81              | 0.410                                 | 4.800%                |
| 697        | SARDAR GARH               | 132kv Mian Wali Qureshian    | RAHIM YAR KHAN | 20                    | 103             | 2                 | 0.000                                 | 3.371%                |
| 698        | MOCHI WALI                | 132kv MARA KHAS              | MUZAFFARGARH   | 400                   | 149.8           | 0.07              | 5.478                                 | 27.739%               |
| 699        | BABA KHAKHI SHAH          | 132kV Kassowal New           | SAHIWAL        | 200                   | 75.2            | 14.67             | 0.239                                 | 5.626%                |
| 700        | BABA ABDUL KARIM          | 132kv Pak Pattan             | SAHIWAL        | 200                   | 48.1            | 14.48             | 0.810                                 | 8.347%                |
| 701        | KICHI WALA                | 132kv Fort Abbas             | BAHWALNAGAR    | 200                   | 94.1            | 14.48             | 0.780                                 | 6.181%                |
| 702        | RAVI                      | 132kv Harrapa                | SAHIWAL        | 210                   | 76.5            | 14.41             | 1.006                                 | 7.652%                |
| 703        | CITY JAMPUR               | 132kv JAM PUR                | D.G. KHAN      | 400                   | 19.9            | 14.41             | 2.014                                 | 9.361%                |
| 704        | DAD FATIYANA              | 132kv Chichawatni            | SAHIWAL        | 210                   | 91              | 14.31             | 1.242                                 | 8.358%                |
| 705        | MUSAFIR KHANA             | 220KV, Mari Sh. Shajra       | BAHAWALPUR     | 230                   | 63.5            | 14.29             | 1.241                                 | 7.261%                |
| 706        | KAMAL SHAH                | 132kv C-83/12L               | SAHIWAL        | 110                   | 47.5            | 14.24             | 0.718                                 | 10.985%               |
| 707        | MEDHI KHAN                | 132kv Qaboola                | SAHIWAL        | 390                   | 98.2            | 14.17             | 1.308                                 | 7.017%                |
| 708        | SAKHI SARWAR-II           | 132kv SAKHI SARWAR           | D.G. KHAN      | 260                   | 23.4            | 14.02             | 1.781                                 | 11.046%               |
| 709        | BANDAY SHAH               | 132kv Ali Pur                | MUZAFFARGARH   | 180                   | 69.5            | 14                | 1.163                                 | 9.195%                |
| 710        | CITY NO.3(S/TOWN          | 132kv R.Y.KHAN-I             | RAHIM YAR KHAN | 390                   | 24.5            | 14                | 1.271                                 | 7.352%                |

## **11 KV FEEDER LIST ACHIEVEABLE CASE**

## HT Feeders Planned for 05 years - ACHIEVABLE CASE

| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                              | Circle   | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.   | Loss (MP | (WH)   | % age A | .E. Loss | Estimated Cost<br>(M.Rs) |
|------------|---------------------------|-------------------------------------------|----------|-----------------------|-----------------|--------------|--------|----------|--------|---------|----------|--------------------------|
|            |                           |                                           |          |                       |                 |              | Before | After    | Saving | Exist   | Rem.     |                          |
| 1          | Akbar Shah                | 132 KV Karam Pur                          | Vehari   | 190                   | 64.0            | 44.6         | 1.589  | 0.803    | 0.786  | 7.80    | 3.73     | 8,173,215                |
| 2          | Zakheera                  | 132 KV Sama Sata                          | B/Pur    | 260                   | 67.8            | 21.60        | 1.440  | 0.522    | 0.918  | 7.23    | 2.75     | 10,110,870               |
| 3          | New Firdous               | 132 KV Shaikh Fazil                       | Sahiwal  | 380                   | 99.4            | 46.70        | 4.278  | 1.369    | 3.256  | 6.19    | 3.77     | 54,469,950               |
| 4          | Niaz Pur                  | 132 KV Mailsi                             | Vehari   | 400                   | 118.6           | 26.80        | 1.950  | 0.990    | 0.960  | 5.53    | 3.74     | 28,823,025               |
| 5          | Kot Muhammad              | 132 KV Chichawatni                        | Sahiwal  | 300                   | 71.9            | 35.80        | 2.642  | 1.081    | 1.561  | 5.47    | - 1      | 24,135,750               |
| 6          | Shah Kot                  | 66 KV 83/12-L                             | Sahiwal  | 380                   | 74.9            | 36.20        | 3.118  | 1.175    | 1.943  | 4.88    | 3.85     | 31,973,410               |
| 7          | Tube Well                 | 132 KV K.P.Tamewali                       | B/Pur    | 400                   | 123.0           | 34.60        | 3.175  | 0.951    | 2.224  | 3.53    | 2.03     | 35,734,841               |
| 8          | Colony                    | 132 KV Lodhran                            | B/Pur    | 380                   | 25.3            | 8.50         | 1.475  | 0.985    | 0.490  | 3.12    | 1.66     | 21,663,870               |
| 9          | Aalam Pur                 | 132 KV Mailsi                             | Vehari   | 380                   | 125.9           | 45.4         | 4.381  | 1.240    | 3.141  | 17.02   | -        | 36,531,180               |
| 10         | lqbal Nagar               | 132 KV Vehari Road & 132<br>KV Qasim Bagh | Multan   | 320                   | 8.1             | 5            | 2.278  | 1.680    | 0.598  | 16.98   | 3.81     | 2,061,028                |
| 11         | Arif Pura                 | 132 KV Vehari Road & 132<br>KV Qasim Bagh | Multan   | 340                   | 5.6             | 3.00         | 2.278  | 1.680    | 0.598  | 16.97   | 4.70     | 2,061,028                |
| 12         | New Mumtaz Abad           | 132 KV Vehari Road & 132<br>KV Qasim Bagh | Multan   | 290                   | 6.9             | 2.00         | 2.278  | 1.680    | 0.598  | 13.99   | -        | 2,061,028                |
| 13         | Gaggo                     | 132 KV Burewala                           | Vehari   | 390                   | 96.5            | 30.00        | 2.535  | 1.006    | 1.529  | 11.9    | 2.29     | 32,463,785               |
| 14         | B&R                       | 132 KV Burewala                           | Vehari   | 380                   | 79.5            | 19.0         | 1.901  | 0.740    | 1.161  | 29.00   | 6.00     | 24,176,000               |
| 15         | Tufail Shaheed            | 132 KV Burewala                           | Vehari   | 390                   | 82.5            | 50.80        | 3.634  | 0.979    | 2.655  | 27.07   | -        | 43,666,300               |
| 16         | Shah Faisal               | 132 KV Burewala                           | Vehari   | 390                   | 58.3            | 29.90        | 5.788  | 1.558    | 4.230  | 27.00   | 6.00     | 43,033,900               |
| 17,        | Raheem Shah               | 132 KV Jahanian                           | Khanewal | 400                   | 133.2           | 60.10        | 1.872  | 0.713    | 1.159  | 22.00   | 6.0      | 47,064,271               |
| 18         | City-I                    | 132 KV Vehari                             | Vehari   | 380                   | 17.1            | 5.50         | 1.161  | 0.712    | 0.449  | 21.00   | 5.00     | 11,433,800               |
| 19         | Umer Pur                  | 132 KV Sahuka                             | Vehari   | 380                   | 78.4            | 27.90        | 2.471  | 1.203    | 1.268  | 20.91   | 4.98     | 28,537,575               |
| 20         | Jinnah Town               | 132 KV Harappa                            | Sahiwal  | 380                   | 145.3           | 30.50        | 2.368  | 0.902    | 1.466  | 20.00   | 5.0      | 30,724,490               |
| 21         | Al-Rahman                 | 66 KV Chak-83/12-L                        | Vehari   | 260                   | 75.2            | 20.10        | 1.979  | 0.746    | 1.233  | 20.00   | 6.00     | 10,740,330               |
| 22         | Rasool Pur                | 132 KV Shaikh Fazil                       | Vehari   | 380                   | 166.4           | 32.10        | 2.291  | 1.209    | 1.082  | 19.50   | 4.81     | 26,083,845               |
| 23         | Magar                     | 132 KV Arif Wala                          | Sahiwal  | 390                   | 73.2            | 35.80        | 3.156  | 1.199    | 1.957  | 19.49   | 4.06     | 49,867,860               |

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|------------|------------------------------|----------------------------------------------|----------|-----------------------|-----------------|--------------|--------|------------|--------|---------|-----------|--------------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal    | Grid Station                                 | Circle   | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E    | . Loss (MI | (WH)   | % age A | A.E. Loss | Estimated Cost<br>(M.Rs) |
| ·          |                              |                                              |          |                       |                 |              | Before | Áfter      | Saving | Exist   | Rem.      |                          |
| 24         | Al-Madni                     | 132 KV Arif Wala                             | Sahiwal  | 390                   | 70.0            | 42.60        | 3.600  | 0.825      | 2.775  | 19.38   | 5.08      | 38,656,935               |
| 25         | Ali Sher                     | 132 KV Dunya Pur                             | B/Pur    | 380                   | 100.4           | 20.30        | 2.627  | 1.807      | 0.820  | 19.06   | 5.56      | 19,506,805               |
| 26         | Al-Abbas                     | 132 KV Sahuka                                | Vehari   | 380                   | 99.2            | 50.0         | 4.059  | 1.146      | 2.913  | 19.00   | 4.00      | 56,019,635               |
| 27         | Fareed                       | 132 KV Shaikh Fazil                          | Vehari   | 390                   | 79.1            | 39.60        | 6.801  | 0.844      | 5.957  | 18.93   | 8.19      | 38,838,910               |
| 28         | Dewan Sahib                  | 132 KV BTM (Burewala)                        | Vehari   | 380                   | 102.4           | 23.40        | 1.719  | 0.838      | 0.881  | 18.00   | -         | 25,742,960               |
| 29         | Firdous                      | 132 KV Ludden                                | Vehari   | 400                   | 95.7            | 36.70        | 3.022  | 1.164      | 1.858  | 17.12   | 4.39      | 24,967,370               |
| 30         | Gunj Shakar                  | 220 KV Yousaf Wala<br>& 132 KV Sahiwal Old   | Sahiwal  | 320                   | 109.6           | 57.60        | 4.922  | 0.966      | 3.956  | 17.00   | 3.00      | 35,840,780               |
| 31         | Sultan Salah-Uddin           | 66 KV Chak-83/12-L                           | Vehari   | 380                   | 80.6            | 36.70        | 3.833  | 1.029      | 2.804  | 17.00   | 5.00      | 29,618,630               |
| 32         | Bonga Hayat                  | 132 KV Pak Pattan                            | Sahiwal  | 380                   | 59.0            | 19.00        | 3.962  | 1.275      | 2.687  | 17.00   | 3.00      | 20,722,420               |
| 33         | City Chowk Sarwar<br>Shaheed | 132 KV Chowk Sarwar<br>Shaheed               | M/Garh   | 380                   | 124.6           | 28.00        | 1.841  | 0.833      | 1.008  | 16.71   | 5.90      | 17,046,214               |
| 34         | Baghdad                      | 132 KV Baghdad<br>-UI-Jadid                  | B/Pur    | 390                   | 41.2 &          | 11           | 1.620  | 1.507      | 0.113  | 16.42   | -         | 10,360,062               |
| 35         | Tibba Badar                  | 132 KV Baghdad<br>-UI-Jadid                  | B/Pur    | 370                   | 21.6            | 22.00        | 4.132  | 1.790      | 3.800  | 16.10   | 4.64      | 10,360,062               |
| 36         | Chak-67 Section              | 132 KV Arif Wala                             | Sahiwal  | 400                   | 86.2            | 30.00        | 2.687  | 1.014      | 1.673  | 16.00   | -         | 41,933,630               |
| 37         | Chan Peer                    | 132 KV Pak Pattan                            | Sahiwal  | 389                   | 61.3            | 31.00        | 2.918  | 1.079      | 1.839  | 15.56   | 5.47      | 34,487,060               |
| 38         | Faisal Town                  | 220 KV Vehari &<br>132 KV Vehari             | Vehari   | 400                   | 20.8            | 9.0          | 1.707  | 1.026      | 0.681  | 15.37   | 4.40      | 13,387,890               |
| 39         | Aziz Makki                   | 132 KV Pak Pattan                            | Sahiwal  | 380                   | 10.6            | 5.00         | 1.203  | 0.799      | 0.404  | 15.17   | 4.30      | 15,863,700               |
| 40         | Machiwal                     | 132 KV Vehari                                | Vehari   | 390                   | 66.0            | 29.00        | 2.343  | 0.943      | 1.400  | 15.00   | 5.00      | 38,952,772               |
| 41         | Benazir                      | 132 KV Lodhran & 132 KV<br>Galay Wala        | B/Pur    | 380                   | 107.5           | 22           | 5.326  | 0.873      | 4.453  | 15.00   | 5.00      | 26,121,850               |
| 42         | Salsadar                     |                                              | B/Pur    | 361                   | 97.9            | 45.00        | 5.326  | 0.944      | 4.382  | 15.00   | 5.00      | 26,121,850               |
| 43         | Scarp-9                      | 132 KV R.Y.Khan-II                           | R.Y.Khan | 400                   | 167.9           | 47.00        | 2.061  | 0.915      | 1.146  | 14.00   |           | 47,364,900               |
| 44         | Bagho-Bahar                  | 132 KV Khan Pur                              | R.Y.Khan | 390                   | 71.7            | 13.00        | 1.919  | 1.158      | 0.761  | 14.00   | 5.00      | 27,992,675               |
| 45         | Fateh Pur Kamal              | 132 KV Khan Bela                             | R.Y.Khan | 400                   | 225.9           | 49.00        | 2.061  | 0.915      | 1.146  | 13.96   | 3.40      | 43,389,000               |
| 46         | City                         | 132 KV Pak Pattan                            | Sahiwal  | 380                   | 10.8            | 4.00         | 0.965  | 0.431      | 0.534  | 13.92   | 4.41      | 10,043,464               |
| 47         | Dhanote                      | 132 KV Lodhran                               | ur       | 380                   | 86.9            | 26.00        | 2.625  | 031        | 1.594  | 13.67   | 2.3       | 39,118,311               |
| 48         | Mahmood Kot                  | 132 KV Khanewal Road & 132<br>KV Buch Villas | Multan   | 390                   | 128.5           | 40.00        | 2.576  | 0.521      | 2.055  | 13.28   | 5.95      | 13,062,158               |

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|------------|---------------------------|----------------------------------------------------------|----------|-----------------------|-----------------|--------------|--------|--------------|--------|------------|-----------|--------------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                                             | Circle   | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E    | . Loss (Mł   | (WH)   | % age A    | A.E. Loss | Estimated Cost<br>(M.Rs) |
|            |                           |                                                          |          |                       |                 |              | Before | After        | Saving | Exist      | Rem.      |                          |
| 49         | Abdullah Shah             | 132 KV Sahiwal-III                                       | Sahiwal  | 379                   | 91.1            | 32.00        | 2.821  | 0.983        | 1.838  | 13.26      | 5.5       | 37,667,697               |
| 50         | Shah Madar                | 132 KV Sahiwal-III                                       | Sahiwal  | 380                   | 90.9            | 32.00        | 2.829  | 0.872        | 1.957  | 13.11      | 3.73      | 35,343,386               |
| 51         | Akbar Shah                | 132 KV WAPDA Town & 132<br>KV Buch Villas                | Multan   | 390                   | 47.6            | 11.59        | 0.875  | 0.593        | 0.282  | 13.07      | 6.17      | 17,112,441               |
| 52         | Kot Mohi                  | 132 kV Shahdun Lund                                      | D.G.Khan | 300                   | 133.2           | 27.76        | 1.782  | 0.916        | 0.866  | 12.94      | 4.60      | 28,254,290               |
| 53         | Vehari Road               | 132 kV Kacha Khu                                         | Khanewal | 380                   | 99.0            | 18.00        | 2.059  | 0.927        | 1.132  | 12.75      | 4.37      | 20,717,439               |
| 54         | Dullow Banglow            | 132 kV Mian Channu                                       | Khanewal | 370                   | 101.8           | 21.00        | 1.764  | 0.929        | 0.835  | 12.63      | 3.84      | 28,653,459               |
| 55         | City-4                    | 132 kV Mian Channu                                       | Khanewal | 398                   | 52.8            | 17.00        | 3.663  | 1.506        | 2.157  | 12.45      | 5.06      | 27,787,056               |
| 56         | Vanjari                   | 132 kV Kacha Khu                                         | Khanewal | 379                   | 85.6            | 40.00        | 4.046  | 1.126        | 2.920  | 12.41      | 4.72      | 28,925,505               |
| 57         | Cold Storage              | 132 kV Khanewal                                          | Khanewal | 377                   | 57.2            | 13.00        | 2.263  | 0.954        | 1.309  | 12.38      | 1.58      | 22,596,299               |
| 58         | Mochi Wala                | 132 kV Mahra Khas                                        | M/Garh   | 390                   | 149.8           | 46.00        | 3.772  | 1.056        | 2.716  | 12.06      | 4.9       | 49,033,893               |
| 59         | Murad Abad                | 132 KV M/Garh &<br>132 KV K.P.B.Sher                     | M/Garh   | 172                   | 82.4            | 22.83        | 1.065  | 0.502        | 0.563  | 12.06      | 3.69      | 11,931,837               |
| 60         | Khan Pur Bagga Sher       | 132 KV M/Garh &<br>132 KV K.B.Sher                       | M/Garh   | 208                   | 124.3           | 13.20        | 0.734  | 0.492        | 0.242  | 12.00      | 4.00      | 14,894,419               |
| 61         | Tube Well-1               | 132 KV M/Garh &<br>132 KV K.B.P.Sher                     | M/Garh   | 220                   | 117.8           | 9.20         | 0.490  | 0.374        | 0.116  | 12.00      | 5.00      | 14,396,263               |
| 62         | Haji Sher                 | 132 KV Sahuka                                            | Vehari   | 370                   | 71.7            | 31.0         | 2.618  | 1.022        | 1.596  | 12.00      | 3.00      | 18,582,692               |
| 63         | Habib Colony              | 132 KV Burewala                                          | Vehari   | 370                   | 9.3             | 19.0         | 4:307  | 0.803        | 3.800  | 11.66      | 4.67      | 19,705,100               |
| 64         | Jali Wala                 | 132 KV Bahawal Nagar & 132<br>KV Bahawal Nagar-II        | B/Nagar  | 260                   | 148,0           | 30.10        | 1.386  | 0.588        | 0.798  | 11.44      | 3.15      | 27,857,500               |
| 65         | Qaboola Road              | 132 KV Bahawal Nagar & 132<br>KV Bahawal Nagar-II        | B/Nagar  | 300                   | 142.9           | 14.20        | 0.998  | 0.665        | 0.333  | 11.44      | 3.40      | 24,807,000               |
| 66         | Amruka                    | 132 KV Macload Gunj                                      | B/Nagar  | 280                   | 213.4           | 35.85        | 2.044  | 0.831        | 1.213  | 11.25      | 3.79      | 38,324,801               |
| 67         | Kot Samaba                | 132 KV Khan Pur                                          | R.Y.Khan | 351                   | 105.4           | 43.31        | 3.065  | 1.063        | 2.002  | 11.04      | -         | 36,027,500               |
| 68         | New Tibbi Qaisrani        | 132 KV Noor Ahmad Wali                                   | D.G.Khan | 340                   | 175.9           | 36.31        | 2.225  | 1.046        | 1.179  | 11.00      | 7.00      | 26,667,110               |
| 69         | Old Kot Qaisrani          | 132 KV Tounsa                                            | D.G.Khan | 340                   | 74.7            | 33.00        | 2.427  | 0.905        | 1.522  | 10.93      | 3.04      | 22,354,230               |
| 70         | Rural                     | 132 KV Faqir Wali ,132 KV<br>Fort Abbas & 132 KV Khichi  | B/Nagar  | 150                   | 91.7            | 14           | 0.496  | 0.994        | 0.000  | 10.77      | 5.01      | 4,957,000                |
| 71         | Walhar                    | 132 KV Faqir Wali ,132 KV<br>Fort Abbas & 132 KV Khichi  | B/Nagar  | 260                   | 177.3           | 27.00        | 1.301  | 0.428        | 0.873  | 10.45      | 4.54      | 4,957,000                |
| 72         | Ghazi Ghat                | 132 KV Qasba Gujrat                                      | M/Garh   | 260                   | 162.0           | 28.00        | 1.843  | 0.718        | 1.125  | 10.35      | 3.56      | 17,672,244               |
| 73         | Yateem Wala               | 132 KV Faqir Wali & 132 KV<br>Khichi Wala (Connectivity) | B/Nagar  | 220                   | 96.7            | 22           | 0.849  | 0.359        | 0.490  | 10.10      | 3.90      | 9,880,000                |

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|------------|---------------------------|----------------------------------------------------------|----------|-----------------------|-----------------|--------------|--------|------------|--------|---------|-----------|--------------------------|
|            |                           |                                                          |          |                       |                 |              | Before | After      | Saving | Exist   | Rem.      |                          |
| 74         | Wains                     | 132 KV Faqir Wali & 132 KV<br>Khichi Wala (Connectivity) | B/Nagar  | 110                   | 111.6           | 13.00        | 0.369  | 0.459      | 0.000  | 9.93    | 3.84      | 9,880,000                |
| 75         | Haji Pur                  | 132 KV Fazil Pur                                         | D.G.Khan | 184                   | 262.6           | 27.00        | 1.041  | 0.441      | 0.600  | 9.79    | 5.34      | 19,672,792               |
| 76         | Bait Sontra               | 132 KV Rajan Pur                                         | D.G.Khan | 180                   | 129.3           | 29.00        | 1.577  | 0.610      | 0.967  | 9.74    | 3.65      | 18,479,047               |
| 77         | Quresh                    | 132 KV Fort Abbas                                        | B/Nagar  | 360                   | 116.4           | 27.00 .      | 2.089  | 1.000      | 1.089  | 9.66    | 3.43      | 22,909,580               |
| 78         | Manghair Sharif           | 132 KV Chishtian                                         | B/Nagar  | 320                   | 98.1            | 31.12        | 2.597  | 0.802      | 1.795  | 9.50    | 2.21      | 36,722,652               |
| 79         | Jamlera                   | 132 KV Sahuka                                            | Vehari   | 360                   | 108.8           | 12.1         | 2.432  | 0.847      | 1.585  | 9.36    | 4.43      | 22,795,138               |
| 80         | Al-Wardi                  | 132 KV Bonga Hayat                                       | Sahiwal  | 360                   | 72.7            | 37.00        | 2.920  | 0.923      | 1.997  | 9.20    | 4.48      | 34,970,977               |
| 81         | City Feroza               | 132 KV Feroza                                            | R.Y.Khan | 380                   | 104.8           | 27.80        | 1.966  | 0.790      | 1.176  | 9.00    | -         | 32,294,664               |
| 82         | Scarp-8                   | 132 KV R.Y.Khan-II                                       | R.Y.Khan | 380                   | 115.1           | 29.00        | 2.219  | 0.868      | 1.351  | .9.00   | 4.00      | 30,507,380               |
| 83         | Rahman Pur                | 132 KV R.Y.Khan-II                                       | R.Y.Khan | 360                   | 48.7            | 15.00        | 1.034  | 0.465      | 0.569  | 9.00    | 4.0       | 22,149,754               |
| 84         | Badli Sharif              | 132 KV Jamal Din Wali                                    | R.Y.Khan | 361                   | 159.3           | 39.00        | 3.298  | 0.869      | 2.429  | 8.94    | 3.95      | 36,632,118               |
| 85         | Rang Pur                  | 132 KV Jamal Din Wali                                    | R.Y.Khan | 360                   | 98.1            | 18.91        | 1.524  | 0.684      | 0.840  | 8.34    | 3.48      | 24,062,226               |
| 86         | Mahi                      | 132 KV Nawaz Abad                                        | R.Y.Khan | 370                   | 117.8           | 29.27        | 2.603  | 1.001      | 1.602  | 8.65    | 3.00      | 27,482,843               |
| 87         | Chowk Chadhar             | 132 KV Nawaz Abad                                        | R.Y.Khan | 360                   | 99.4            | 22.76        | 1.828  | 0.904      | 0.924  | 8.61    | 2.07      | 32,861,233               |
| 88         | Shah Suleman              | 132 KV Tounsa                                            | D.G.Khan | 320                   | 14.1            | 9.00         | 0.817  | 0.601      | 0.216  | 8.13    | 2.63      | 8,299,987                |
| 89         | Hassan Shah               | 132 KV Karam Pur                                         | Vehari   | 380                   | 101.0           | 22.00        | 1.988  | 1.012      | 0.976  | 8.06    | 1.60      | 19,650,311               |
| · 90       | Raja Pur                  | 132 KV Lodhran & 132 KV<br>Kebror Pacca                  | B/Pur    | 230                   | 50.3            | 38.00        | 2.321  | 0.836      | 1.485  | 8.00    | 5.00      | 6,294,000                |
| 91         | Loyal Pur                 | 132 KV Lodhran & 132 KV<br>Kehror Pacca                  | B/Pur    | 180                   | 90.9            | 20.00        | 0.850  | 0.427      | 0.423  | 8.00    | 3.00      | 16,835,100               |
| 92         | City-I Ali Pur            | 132 kV Ali Pur                                           | M/Garh   | 390                   | 10.6            | 4.00         | 1.097  | 0.904      | 0.193  | 7.93    | 3.72      | 8,027,215                |
| 93 -       | Azeem Wah                 | 132 KV Chishtian & 66 KV<br>Bakshan Wala                 | B/Nagar  | 290                   | 144.1           | 34           | 0.216  | 1.058      | 0.000  | 6:66    | 2.63      | 657292.5                 |
| 94         | Saydan Wala               | 132 KV Chishtian & 66 KV<br>Bakshan Wala                 | B/Nagar  | 66                    | 38.7            | 4.00         | 2.246  | 1.057      | 1.189  | 6.30    | 6.36      | 657292.5                 |
| 95         | City-I Jahanian           | 132 KV Jahanian                                          | Khanewal | 350                   | 16.5            | 7.00         | 1.381  | 0.685      | 0.696  | 6.29    | 2.81      | 13,769,250               |
| 96         | City Garha More           | 132 KV Garha More                                        | Vehari   | 400                   | 132.5           | 33           | 2.207  | 0.540      | 1.667  | 5.93    | 2.99      | 15,193,184               |
| 97         | Mitru                     | 132 KV Garha More                                        | ehari    | 400                   | 48.9            | 9.00         | 0.807  | 0.755      | 0.052  | 5.38    | 2.05      | 15,193,184               |
| 98         | Shatab Garh               | 132 KV Garha More                                        | Vehari   | 370                   | 99.1            | 48.00        | 4.120  | 0.919      | 3.201  | 5.28    | 2.44      | 31,905,659               |

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|------------|---------------------------|----------------------------------------|----------------|-----------------------|-----------------|--------------|--------|------------|--------|---------|-----------|--------------------------|
| Sr.<br>No: | 11KV Feeder /<br>Proposal | Grid Station                           | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E    | . Loss (MI | KWH)   | % age A | A.E. Loss | Estimated Cost<br>(M.Rs) |
|            |                           |                                        |                | •<br>1.2              |                 |              | Before | After      | Saving | Exist   | Rem.      |                          |
| 99         | Zaheer Nagar              | 132 KV Azeem Abad                      | Vehari         | 332                   | 62.5            | 31.00        | 2.085  | 0.678      | 1.407  | 5.00    | 3.00      | 45,817,350               |
| 00.        | Machi Wal                 | 132 KV Azeem Abad                      | Vehari         | 391                   | 70.9            | · 40         | 3.544  | 0.677      | 2.867  | 4.97    | 4.42      | 24,402,488               |
| 01         | Masoom Shah               | 132 KV Azeem Abad                      | Vehari         | 290                   | 15.3            | 7.00         | 1.075  | 0.974      | 0.101  | 4.90    | 3.0       | 24,402,488               |
| 02         | New Sher Wala             | 132 KV Shaikh Fazil                    | Sahiwal        | 374                   | 142.2           | 39.00        | 3.288  | 1.051      | 2.237  | 4.68    | 2.82      | 43,343,966               |
| 03         | Ghazi Mardan              | 132 KV Bonga Hayat                     | Sahiwal        | 360                   | 97.2            | 18.00        | 1.748  | 0.835      | 0.913  | 4.64    | 2.67      | 24,783,432               |
| 04         | Head Muhammad<br>Wala     | 66 KV Rang Pur                         | M/Garh         | 191                   | 97.9            | 43.91        | 2.905  | 0.586      | 2.319  | 4.42    | 2.97      | 39,596,422               |
| 05         | Shouque Elahi             | 132 KV Chishtian                       | B/Nagar        | 322                   | 122.1           | 40           | 2.916  | 0.637      | 2.279  | 4.35    | 3.55      | 21,780,202               |
| 06         | Gujiani                   | 132 KV Chishtian                       | B/Nagar        | 220                   | 111.2           | 24.00        | 2.403  | 0.673      | 1.730  | 4.20    | 2.22      | 21;780,202               |
| 07         | Vehniwal                  | 132 KV Khanewal & 132 KV<br>Garha More | Khanewal       | 330                   | 139.2           | 34.00        | 1.925  | 0.802      | 1.123  | 4.00    | 2.00      | 39,144,656               |
| )8         | Old Factory               | 132 KV Arif Wala                       | Sahiwal        | 300                   | 36.5            | 9.00         | 0.744  | 0.370      | 0.374  | 3.97    | 3.01      | 14,219,502               |
| )9         | Piran Ghaib               | 132 KV P.G.H.S                         | Multan         | 395                   | 49.3            | 12           | 1.039  | 0.878      | 0.161  | 3.84    | -         | 9,801,477                |
| 10         | 500 KV                    | 132 KV Khanewal Road                   | Multan         | 20                    | 3.6             | 2.00         | 0.830  | 0.681      | 0.149  | 3.51    | 2.41      | 9,801,477                |
| 11         | City Liaquat Pur          | 132 KV Liaquat Pur                     | R.Y.Khan       | 300                   | 11.1            | 4.41         | 0.954  | 0.503      | 0.451  | 3.31    | 2.68      | 9,964,500                |
| 12.        | Kachi Mandi               | 132 KV Liaquat Pur                     | R.Y.Khan       | 220                   | 18.0            | 6.89         | 0.927  | 0.617      | 0.310  | 3.00    | 2.04      | 9,964,500                |
| 13         | Mohin Abad                | 66 KV Kot Khalifa                      | B/Pur          | 171                   | 111.2           | 10           | 0.506  | 0.676      | 0.000  | 2.98    | 2.14      | 3,784,654                |
| 14         | Abbasia                   | 132 KV Liaquat Pur                     | B/Pur          | 200                   | 71.8            | 29.00        | 1.853  | 0.970      | 0.883  | 2.67    | 1.55      | 3,784,654                |
| 15         | City Kabir Wala           | 132 KV Kabir Wala                      | Khanewal       | 320                   | 37.6            | 16.00        | 2.683  | 1.124      | 1.559  | 2.14    | 2.80      | 17,142,700               |
| 16         | Old Tibbi Qaisrani        | 132 KV Noor Ahmad Wali                 | D.G.Khan       | 210                   | 169.8           | 39           | 2.861  | 1.663      | 1.198  | 1.78    | -         | 1,599,890                |
| 17         | Jallo Wali                | 132 KV Noor Ahmad Wali                 | D.G.Khan       | 100                   | 57.3            | 9.00         | 0.431  | 0.090      | 0.341  | 0.37    | 0.15      | 1,599,890                |
| 18         | GANJ SHAKAR               | 132kv Pak Pattan                       | SAHIWAL        | 380                   | 62.3            | 43.90        | 5.104  | 1.124      | 3.980  | 0.32    | 0.10      | 35,602,109               |
| 19         | RAJAN PUR KALAN           | 132kv<br>J.D.WALI                      | RAHIM YAR KHAN | 380                   | 201.8           | 51.00        | 5.275  | 1.315      | 3.960  | 0.29    | 0.14      | 27,165,208               |
| 20         | BAHAR                     | 132kv Chowk Sarwar<br>Shaheed/C MUNDA  | MUZAFFARGARH   | 360                   | 234.2           | 40.00        | 6.364  | 1.408      | 4.956  | 0.29    | 0.14      | 23,652,656               |
| 21         | QADIR PUR CHEEM           | 132kv Kehror Pacca                     | BAHAWALPUR     | 390                   | 130.7           | 48.23        | 4.785  | 1.005      | 3.780  | 0.28    | 0.13      | 25,768,935               |
| 22         | AZIZ CHOWK                | 132kv Chowk Sarwar<br>Shaheed/C MUNDA  | MUZAFFARGARH   | 400                   | 253.2           | 41.00        | 5.947  | 1.993      | 3.954  | 0.27    | 0.12      | 18,605,309               |
| 23         | KOTLA                     |                                        | MULTAN         | 380                   | 175.9           | 46.00        | 5.790  | 1.825      | 3.965  | 0.26    | 0.11      | 21,710,508               |

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|            |                           |                                   |                | •                     |                 |              |        |          |        |         |          | · · ·                    |
|------------|---------------------------|-----------------------------------|----------------|-----------------------|-----------------|--------------|--------|----------|--------|---------|----------|--------------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                      | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.   | Loss (MP | (WH)   | % age A | .E. Loss | Estimated Cost<br>(M.Rs) |
|            |                           |                                   |                |                       |                 | •            | Before | After    | Saving | Exist   | Rem.     |                          |
| 24         | DOGAR                     | 132kv MAKHDOOM RASHID             | MULTAN         | 340                   | 110.4           | 48.00        | 3.504  | 2.144    | 1.360  | 0.26    | 0.11     | 32,563,61                |
| 25         | SHER SHAH                 | 132kv INDUSTRIAL ESTATE<br>MULTAN | MULTAN         | 350                   | 158.2           | 39.00        | 5.287  | 1.300    | 3.987  | 0.25    | 0.10     | 15,812,25                |
| 26         | BASEERA                   | 132kv GUJRAT SOUTH                | MUZAFFARGARH   | 360                   | 146.6           | 35.00        | 5.060  | 1.100    | 3.960  | 0.25    | 0.10     | 36,251,25                |
| 27         | BABA MOHSIN SHAH          | 132kv Hoota                       | SAHIWAL        | 390                   | 100.8           | 42.37        | 3.993  | 2.343    | 1.650  | 0.25    | 0.10     | 28,935,61                |
| 28         | SATLUJ                    | 132kv LODHRAN                     | BAHAWALPUR     | 360                   | 97.1            | 47:24        | 2.871  | 1.816    | 1.055  | 0:25    | 0.10     | 23,225,51                |
| 29         | ZAHIR PIR                 | 132kv KHAN PUR                    | RAHIM YAR KHAN | 360                   | 85.5            | 52.00        | 2.720  | 1.464    | 1.256  | 0.25    | 0.10     | 25,584,91                |
| 30         | CHOPPER HATTA             | 132kv Makhdoom Pur                | KHANEWAL       | 320                   | 135.2           | 34.01        | 3.008  | 1.947    | 1.061  | 0.25    | 0.10     | 21,203,20                |
| 31         | SCARP-FW (SCARP           | 132kv Bahawal Nagar               | B/Nagar        | 340                   | 222.2           | 40.75        | 4.866  | 1.756    | 3.110  | 0.25    | 0.10     | 25,806,25                |
| 32         | SHER SHAH                 | 132kv Garha More                  | VEHARI         | 360                   | 118.3           | 33.92        | 3.619  | 2.564    | 1.055  | 0.24    | 0.09     | 24,555,12                |
| 33         | IQBAL ABAD                | 132kv R.Y.KHAN-I                  | RAHIM YAR KHAN | 350                   | 100.0           | 41.00        | 3.562  | 1.921    | 1.641  | 0.24    | 0.09     | 25,498,36                |
| 34         | AL-KARAM                  | 132kv SHUJABAD                    | MULTAN         | 360                   | 170.3           | 40.00        | 3.458  | 1.894    | 1.564  | 0.24    | 0.09     | 15,368,55                |
| 35         | ZIA                       | 66KV MAROOT                       | B/Nagar        | 390                   | 119.6           | 43.11        | 4.126  | 2.121    | 2.005  | 0.24    | 0.09     | 29,230,14                |
| 36         | KOT ABBAS SHAHEE          | 132KV KHANEWAL                    | KHANEWAL       | 350                   | 139.6           | 43.25        | 3.337  | 1.832    | 1.505  | 0.24    | 0.09     | 25,648,27                |
| 37         | SHER KHAN                 | 132kv KABIR WALA                  | KHANEWAL       | 320                   | 169.2           | 38.10        | 3.072  | 2.018    | 1.054  | 0.23    | 0.08     | 17,569,27                |
| 38.        | MULTANI WALA              | 132kv JEHANIAN                    | KHANEWAL       | 360                   | 133.3           | 35.26        | 3.840  | 2.865    | 0.975  | 0.23    | 0.08     | 91,569,87                |
| 39         | ISLAM PUR                 | 132kv LAAR                        | MULTAN         | 360                   | 100.2           | 31.00        | 3.748  | 2.498    | 1.250  | 0.23    | 0.08     | 35,666,98                |
| 40         | BATHI                     | 132kv N.A.WALI                    | D.G. KHAN      | 360                   | 85.3            | 40.17        | 3.019  | 1.018    | 2.001  | 0.23    | 0.08     | 32,515,44                |
| 11         | RAJA FIDA HUSSAI          | 132kv Qaboola                     | SAHIWAL        | 380                   | 90.9            | 31.90        | 3.111  | 1.486    | 1.625  | 0,23    | 0.08     | 36,308,70                |
| 12         | AL-FAZAL                  | 132kv SHUJABAD                    | MULTAN         | 390                   | 122.7           | 37.00        | 5.620  | 1.720    | 3.900  | 0.23    | 0.08     | 22,729,31                |
| 3          | NAWAB LIAQAT ALI          | 132kv SHUJABAD                    | MULTAN         | 400                   | 98.6            | 37.00        | 2.880  | 0.960    | 1.920  | 0.23    | 0.08     | 16,593,06                |
| 4          | LAL KAMAL                 | 132kv LODHRAN                     | BAHAWALPUR     | 340                   | 108.8           | 33.08        | 3.439  | 2.384    | 1.055  | 0.23    | 0.08     | 25,151,51                |
| 5          | HUSSAIN ABAD              | 132kv Pak Pattan                  | SAHIWAL        | 380                   | 66.9            | 33.88        | 3.921  | 2.896    | 1.025  | 0.23    | 0.08     | 34,101,30                |
| 6          | SIKANDAR CHOWK            | 132kv Bunga Hayat                 | SAHIWAL        | 360                   | 79.1            | 34.74        | 2.934  | 1.929    | 1.005  | 0.22    | 0.07     | 16,515,15                |
| 17         | MAKHDOOM                  |                                   |                | 360                   | 128.4           | 34.00        | 3.489  | 1.931    | 1.558  | 0.22    | ,0.07    | 22,458,87                |
| 18         | NEW KOT QAISRANI          | 132kv TOUNSA                      | D.G. KHAN      | 350                   | 88.4            | 36.43        | 3.335  | 2.084    | 1.251  | 0.22    | 0.07     | 31,616,16                |

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|            |                           |                            |                | •                     |                 |              | A.E    | . Loss (Mi | KWH)   | •<br>% age A | .E. Loss | t +                      |   |
|------------|---------------------------|----------------------------|----------------|-----------------------|-----------------|--------------|--------|------------|--------|--------------|----------|--------------------------|---|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station               | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D |        |            | ,      |              |          | Estimated Cost<br>(M.Rs) |   |
|            |                           |                            |                |                       |                 |              | Before | After      | Saving | Exist        | Rem.     |                          |   |
| 149        | MEHMOOD KOT               | 132kv WAPDA TOWN<br>MULTAN | MULTAN         | 390                   | 147.5           | 37.00        | 5.288  | 1.498      | 3.790  | 0:22         | 0.07     | 11,910,820               |   |
| 150        | KASRANWAN                 | 132KV KHANEWAL             | KHANEWAL       | 330                   | 169.4           | 36.59        | 3.072  | 1.485      | 1.587  | 0.22         | 0.07     | 12,554,512               |   |
| 151        | GHAZI ABBAS               | 132kv Chak 211/W.B         | VEHARI         | 360                   | 128.8           | 29.29        | 2.580  | 1.524      | 1.056  | 0.21         | 0.06     | 25,669,415               |   |
| 152        | VAHNIWAL                  | 132KV KHANEWAL             | KHANEWAL       | 360                   | 139.2           | 37.33        | 3.734  | 1.733      | 2.001  | 0.21         | 0.06     | 9,284,524                |   |
| 153        | NOOR PUR                  | 132kv Makhdoom Pur         | KHANEWAL       | 370                   | 126.0           | 31.04        | 3.305  | 2.248      | 1.057  | 0.21         | 0.06     | 11,525,585               |   |
| 154        | CITY DONGA BONGA          | 132kv Haroon Abad          | B/Nagar        | 350                   | 91.6            | 35.45        | 1.920  | 1.295      | 0.625  | 0.21         | 0.06     | 18,995,542               | . |
| 155        | SAHU FEEDER               | 132kv MAKHDOOM RASHID      | MULTAN         | 350                   | 76.3            | 31.00        | 2.374  | 1.399      | 0.975  | 0.21         | 0.06     | 11,515,151               |   |
| 156        | PIR HAJIN SHER            | 132kv JEHANIAN             | KHANEWAL       | 320                   | 79.1            | 33.08        | 2.589  | 1.089      | 1.500  | 0.21         | 0.06     | 32;661,254               |   |
| 157        | KIKRI KHURD               | 132kv Mailsi               | VEHARI         | 380                   | 89.1            | 31.51        | 2.667  | 1.890      | 0.777  | 0.21         | 0.06     | 34;715,816               |   |
| 158        | NOOR AHMAD WALI           | 132kv N.A.WALI             | D.G. KHAN      | 340                   | 74.0            | 25.48        | 2.269  | 1.672      | 0.597  | 0.21         | 0.06     | 41,515,552               |   |
| 159        | MARI ALLAH BACHA          | 132kv KHAN PUR             | RAHIM YAR KHAN | 330                   | 117.1           | 25.00        | 2.373  | 1.398      | 0.975  | 0.20         | 0.05     | 15,151,515               |   |
| 160        | NEW KACHAKHU              | 132kv Mianchannu           | KHANEWAL       | 330                   | 59.3            | 20.88        | 4.143  | 0.163      | 3.980  | 0.20         | 0.05     | 25;459,415               |   |
| 161        | BABA FARID                | 132kv Hoota                | SAHIWAL        | 400                   | 114.1           | 31.77        | 2.741  | 1.054      | 1.687  | 0.20         | 0.05     | 3,719,650                |   |
| 162        | Ladhana                   | 132kv CHOWK AZAM           | MUZAFFARGARH   | 200                   | 126.1           | 41.00        | 3.908  | 2.853      | 1.055  | 0:20         | 0.05     | 21,562,510               |   |
| 163        | SHAHIDAN WALA             | 132kv LODHRAN              | BAHAWALPUR     | 340                   | 111.9           | 21.38        | 2.403  | 1.343      | 1.060  | 0.20         | 0.05     | 21,584,612               |   |
| 164        | RAWAN                     | 132kv KHANEWAL ROAD        | MULTAN         | 395                   | 87.9            | 22.00        | 4.601  | 0.951      | 3.650  | 0.20         | 0.05     | 3,312,022                |   |
| 165        | IRSHAD AHMAD KHA          | 132kv Mailsi               | VEHARI         | 380                   | 102.8           | 29.50        | 2.309  | 0.579      | 1.730  | 0.20         | 0.05     | 29,101,010               | l |
| 166        | KOT AZAM                  | 132kv K.P.T Wali           | BAHAWALPUR     | 340                   | 142.6           | 26.62        | 2.574  | 1.599      | 0.975  | 0.20         | 0.05     | 25,151,510               |   |
| 167        | 8.KASSI                   | 132kv KABIR WALA           | KHANEWAL       | 325                   | 86.8            | 26.13        | 2.318  | 1.693      | 0.625  | 0.20         | 0.05     | 45,841,541               |   |
| 168        | NEW VEHARI RD             | 132kv VEHARI ROAD          | MULTAN         | 400                   | 66.9            | 24.00        | 3.964  | 1.994      | 1.970  | 0.20         | 0.05     | 2,724,915                |   |
| 169        | PAK PATTAN ROAD           | 132kv Kameer               | SAHIWAL        | 330                   | 54.0            | 26.13        | 1.737  | 0.682      | 1.055  | 0:19         | 0.10     | 25,114,523               | • |
| 170        | Qureshi                   | 132kv VEHARI ROAD          | MULTAN         | 370                   | 100.0           | 48.00        | 0.320  | 0.200      | 0.120  | 0.19         | 0.10     | 25,125,545               |   |
| 171        | NOOR SHAH                 | 132kv Sahiwal New          | SAHIWAL        | 330                   | 105.3           | 31.39        | 2.599  | 1.349      | 1.250  | 0.19         | 0.10     | 21,045,845               | 1 |
| 172        | KARAMAN WALA              | 132kv Arif Wala            | SAHIWAL        | 370                   | 77.4            | 25.34        | 2.259  | 1.248      | 1.011  | 0.19         | 0.10     | 32,584,455               | ļ |
| 173        | SCARP-2                   | 132kv R.Y.KHAN-I           | RAHIM YAR KHAN | 320                   | 83.7            | 26.00        | 2.519  | 1.544      | 0.975  | 0.19         | 0.10     | 18,924,561               |   |

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| Sr. | 11KV Feeder /    | Grid Station               | Circle         | Max. Load | Length | % age | A.E    | . Loss (Mł | /IKWH) % age A.E. Loss Es |       | Estimated Cost |            |
|-----|------------------|----------------------------|----------------|-----------|--------|-------|--------|------------|---------------------------|-------|----------------|------------|
| NO. | Proposal         |                            |                | Recorded  | (K.M)  | V.D   | Before | After      | Saving                    | Exist | Rem.           | (Wi.KS)    |
| 174 | NEW GARRAY WALA  | 132kv WAPDA TOWN<br>MULTAN | MULTAN         | 390       | 139.9  | 18.00 | 5.523  | 1.633      | 3.890                     | 0.19  | 0.10           | 38,000,710 |
| 175 | RAHIM ABAD       | 132kv NAWAZABAD            | RAHIM YAR KHAN | 360       | 97.3   | 24.00 | 2.203  | 1.530      | 0.673                     | 0.19  | 0.10           | 11,054,561 |
| 176 | GAMEN SHAH       | 132kv Qaboola              | SAHIWAL        | 390       | 143.8  | 33.20 | 1.964  | 1.329      | 0.635                     | 0,19  | 0.10           | 29,701,815 |
| 177 | SOAN MIANI (F.NO | 132kv                      | RAHIM YAR KHAN | 390       | 78.5   | 29.00 | 1.213  | 0.988      | 0.225                     | 0.19  | 0.10           | 921,722    |
| 178 | MIRAN SHAH       | 132kv Pak Pattan           | SAHIWAL        | 320       | 84.8   | 20.28 | 2.224  | 0.624      | 1.600                     | 0.19  | 0.10           | 8,752,554  |
| 179 | SYED IRSHAD SHAH | 132kv Arif Wala            | SAHIWAL        | 380       | 30.3   | 24.47 | 2.807  | 1.057      | 1.750                     | 0.19  | 0.10           | 41,101,302 |
| 180 | KHAN KAMAL       | 132kv Qadirabad            | SAHIWAL        | 320       | 71.7   | 18.14 | 2.350  | 1.300      | 1.050                     | 0.19  | 0.10           | 21,551,545 |
| 181 | TWELL            | 132kv SHUJABAD             | MULTAN         | 330       | 86.9   | 17.00 | 2.146  | 1.194      | 0.952                     | 0.19  | 0.10           | 19,251,541 |
| 182 | SALDERA          | 132kv Sahuka               | VEHARI         | 390       | 129.6  | 26.13 | 2.337  | 1.312      | 1.025                     | 0.19  | 0.10           | 27,280,500 |
| 183 | PIR KABEER       | 132kv KABIR WALA           | KHANEWAL       | 320       | 29.3   | 16.42 | 2.224  | 0.969      | 1.255                     | 0.19  | 0.10           | 32,696,125 |
| 184 | KAREEM WALA      | 132kv SHAHDAN LUND         | D.G. KHAN      | 380       | 135.0  | 22.36 | 2.546  | 0.916      | 1.630                     | 0.19  | 0.10           | 26,779,181 |
| 185 | PULL MURAD       | 132kv Haroon Abad          | B/Nagar        | 320       | 118.5  | 23.69 | 2.326  | 1.300      | 1.026                     | 0.18  | 0.09           | 25,588,454 |
| 186 | BEHLI SHARIF     |                            | MULTAN         | 370       | 78.5   | 29.00 | 0.921  | 0.819      | 0.102                     | 0.18  | 0.09           | 26,587,545 |
| 187 | BORIAN WALA      | 132kv LAAR                 | MULTAN         | 350       | 96.5   | 24.00 | 1.150  | 0.645      | 0.505                     | 0.18  | 0.09           | 54,145,458 |
| 188 | NAO QABAL WAH    | 132kv Kehror Pacca         | BAHAWALPUR     |           | 100.8  | 21.24 | 1.845  | 1.232      | 0.612                     | 0.18  | 0.09           | 12,555,816 |
| 189 | FACTORY          | 132kv Mailsi               | VEHARI         | 380       | 100.6  | 18.16 | 1,984  | 1.359      | 0.625                     | 0.18  | 0.09           | 31,709,210 |
| 190 | ALI SHERWAN      | 132kv JEHANIAN             | KHANEWAL       | 360       | 69.9   | 23.36 | 1.850  | 1.208      | 0.642                     | 0.18  | 0.09           | 36,514,581 |
| 191 | DERA RAHIM       | 132kv Sahiwal Old          | SAHIWAL        | 380       | 59.9   | 24.34 | 2.482  | 1.447      | 1.035                     | 0.18  | 0.09           | 20,492,013 |
| 192 | DANI             | 132kv MARA KHAS            | MUZAFFARGARH   | 180       | 121.7  | 35.00 | 2.934  | 1.909      | 1.025                     | 0.18  | 0.09           | 19,556,158 |
| 193 | DUNYA PUR        | 132kv JEHANIAN             | VEHARI         | 380       | 104.8  | 19.88 | 1.902  | 1.142      | 0.760                     | 0.18  | 0.09           | 22,490,293 |
| 194 | IMAM SHAH        | 132kv SHUJABAD             | MULTAN         | 380       | 68.2   | 31.00 | 1.696  | 0.856      | 0.840                     | 0.17  | 0.08           | 24,442,656 |
| 195 | CHICHAWATNI OLD  | 132kv Chichawatni          | SAHIWAL        | 320       | 93.6   | 20.94 | 2.263  | 1.238      | 1.025                     | 0.17  | 0.08           | 16,588,214 |
| 196 | INDUSTRIAL       | 132kv SHUJABAD             | MULTAN         | 290       | 149.5  | 35.00 | 5.778  | 1.938      | 3.840                     | 0.17  | 0.08           | 22,965,588 |
| 197 | 11 KV NEW MANTHA | 132kv SADIQABAD            |                | 210       | 156.2  | 32.00 | 5.491  | 1.531      | 3.960                     | 0.17  | 0.08           | 16,982,581 |
| 198 | THATHA GABOLLAN  | 132kv KOT CHUTTA           | D.G. KHAN      | 330       | 91.9   | 14.98 | 1.682  | 1.357      | 0.325                     | 0.17  | 0.08           | 41,255,826 |

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|------------|------------------------------------------|----------------------------|----------------|-----------------------|-----------------|--------------|--------|------------|--------|---------|-----------|--------------------------|----|
| Sr.<br>No. | 11KV Feeder /<br>Proposal                | Grid Station               | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E    | . Loss (Mł | (WH)   | % age A | A.E. Loss | Estimated Cost<br>(M.Rs) |    |
|            | an an an an an an an an an an an an an a |                            |                |                       |                 |              | Before | After      | Saving | Exist   | Rem.      |                          |    |
| 199        | FACTORY KP                               | 132kv Kehror Pacca         | BAHAWALPUR     | 380                   | 131.1           | 20.34        | 2.158  | 1.153      | 1.005  | 0.17    | 0.08      | 27,927,777               |    |
| 200        | KHAWAJA ARIF                             | 132kv Sahiwal Old          | SAHIWAL        | 360                   | 107.0           | 55.83        | 2.020  | 1.000      | 1.020  | 0.17    | 0.08      | 22,555,809               |    |
| 201        | KOTLY NAJABAT                            | 132kv BASTI MALOOK         | MULTAN         | 350                   | 105.6           | 19.00        | 1.922  | 0.919      | 1.003  | 0.17    | 0.08      | 25,559,856               | 1  |
| 202        | NOORPUR CITY                             | 132kv Noor Pur             | SAHIWAL        | 360                   | 72.1            | 15.00        | 1.591  | 1.281      | 0.310  | 0.17    | 0.08      | 31,551,581               | -  |
| 203        | KAMEER CITY                              | 132kv Kameer               | SAHIWAL        | 335                   | 41.0            | 11.11        | 1.913  | 0.993      | 0.920  | 0.17    | 0.08      | 55,815,814               | 1  |
| 204        | BADAR SHER                               | 132kv BAGHDAD-UL-JADID     | BAHAWALPUR     | 390                   | 21.6            | 14.25        | 1.974  | 1.734      | 0.240  | 0.17    | 0.08      | 24,396,147               |    |
| 205        | CHAK 5-FAIZ                              | 132kv LAAR                 | MULTAN         | 350                   | 44.0            | 22.00        | 0.475  | 0.365      | 0.110  | 0.17    | 0.08      | 25,664,556               |    |
| 206        | NAWAB PUR ROAD                           | 132kv BOSAN ROAD<br>MULTAN | MULTAN         | 380                   | 13.4            | 12.00        | 2.044  | 0.824      | 1.220  | 0.17    | 0.08      | 22 <del>,9</del> 39,875  | 1  |
| 207        | FATEH SHAH KP                            | 132kv Kehror Pacca         | BAHAWALPUR     | 330                   | 75.7            | 19.18        | 1.046  | 0.767      | 0.279  | 0.17    | 0.08      | 19,875,214               |    |
| 208        | BURHAN PUR                               | 132kv Kehror Pacca         | BAHAWALPUR     | 350                   | 109.8           | 21.93        | 1.310  | 0.685      | 0.625  | 0.17    | 0.08      | 25,551,696               | 1  |
| 209        | QUAID-E-AZAM                             | 132kv R.Y.KHAN-II          | RAHIM YAR KHAN | 340                   | 12.3            | 15.00        | 1.169  | 0.909      | 0.260  | 0.17    | 0.08      | 36,551,415               | •  |
| 210        | TABARAKWAH                               | 133 KV Karam Pur           | VEHARI         | 320                   | 70.5            | 14.46        | 1.095  | 0.781      | 0.315  | 0.17    | 0.08      | 21,276,591               |    |
| 211        | PEËR HASAN SAWAL                         | 132kv<br>JAIL ROAD MULTAN  | MULTAN         | 340                   | 34.0            | 13.00        | 1.715  | 0.965      | 0.750  | 0.17    | 0.08      | 32 <b>,5</b> 87,425      |    |
| 212        | CHAK-182/E.B                             | 132kv Vehari               | VEHARI         | 380                   | 82.6            | 17.10        | 1.470  | 0.666      | 0.804  | 0.17    | 0.08      | 27,546,102               |    |
| 213        | CITY-II                                  | 132kv MUBARAK PUR          | BAHAWALPUR     | 350                   | 99.4            | 12.76        | 1.559  | 1.109      | 0.450  | 0.17    | 0.08      | 25,455,625               |    |
| 214        | COLLEGE ROAD                             | 132kv BAGHDAD-UL-JADID     | BAHAWALPUR     | 350                   | 29.1            | 12.61        | 1.801  | 1.181      | 0.620  | 0.17    | 0.08      | 12,514,555               | 1. |
| 215        | SHAKAR GUNJ                              | 132kv Mailsi               | VEHARI         | 380                   | 60.1            | 20.27        | 1.298  | 0.684      | 0.614  | 0.17    | 0.08      | . 28,145,603             | ·  |
| 216        | DHORI                                    | 132kv CHOWK AZAM           | MUZAFFARGARH   | 330                   | 170.8           | 20.00        | 1.314  | 0.648      | 0.666  | 0.17    | 0.08      | 19,875,580               |    |
| 217        | SAKHI SARWAR                             | 132kv R.Y.KHAN-II          | RAHIM YAR KHAN | 380                   | 28.9            | 14.00        | 1.324  | 1.014      | 0.310  | 0.16    | 0.07      | 29,105,415               | 1  |
| 218        | AL-HALAL                                 | 132kv VEHARI ROAD          | MULTAN         | 360                   | 57.0            | 11.00        | 1.969  | 1.007      | 0.962  | 0.16    | 0.07      | 25,589,471               |    |
| 219        | CHAK-22/W.B                              | 132kv Vehari               | VEHARI         | 390                   | 116.6           | 17.03        | 1.481  | 1.272      | 0.209  | 0.16    | 0.07      | 34,105,621               |    |
| 220        | NISHAT ROAD                              | 132kv QASIM PUR MULTAN     | MULTAN         | 400                   | 13.5            | 14.00        | 1.479  | 0.813      | 0.666  | 0.16    | 0.07      | 32,102,506               |    |
| 221        | GHAZI ABAD                               | 132kv Chichawatni          | SAHIWAL        | 330                   | 86.7            | 15.49        | 1.449  | 0.529      | 0.920  | 0.16    | 0.07      | 52,158,114               |    |
| 222        | NEW SATELLITE TO                         | 132kv R.Y.KHAN-II          | RAHIM YAR KHAN | 320                   | 17.8            | 14.00        | 0.945  | 0.695      | 0.250  | 0.16    | 0.07      | 43,155,155               |    |
| 223        | PEOPLES COLONY                           | 132kv QASIM PUR MULTAN     | MULTAN         | 390                   | 30.3            | 11.00        | 1.782  | 1.287      | 0.495  | 0.16    | 0.07      | 27,805,302               |    |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                      | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.    | . Loss (Mł | (WH)   | % age A | A.E. Loss | Estimated Cost<br>(M.Rs) |
|------------|---------------------------|-----------------------------------|----------------|-----------------------|-----------------|--------------|---------|------------|--------|---------|-----------|--------------------------|
| · .        |                           |                                   |                |                       |                 |              | Before  | After      | Saving | Exist   | Rem.      |                          |
| 224        | KHAN GARH                 | 132kv KHAN GARH                   | MUZAFFARGARH   | 340                   | 47.2            | 12.00        | 1.227   | 0.607      | 0.620  | 0,16    | 0.07      | 22,545,155               |
| 225        | MUHAMMAD NAGAR            | 132kv Qaboola                     | SAHIWAL        | 380                   | 59.1            | 10.92        | 1.180   | 0.505      | 0.675  | 0.16    | 0.07      | 27,110,897               |
| 226        | NEW CHAK-37/W.B           | 132kv Vehari                      | VEHARI         | 360                   | 75.5            | 12.43        | 1.054   | 0.529      | 0.525  | 0.16    | 0.07      | 14,515,819               |
| 227        | D.D.PANAH                 | 132kv KOT ADDU                    | MUZAFFARGARH   | 330                   | 95.9            | 15.00        | 1.261   | 0.336      | 0.925  | 0.16    | 0.07      | 29,842,542               |
| 228        | QASBA MARAL               | 132kv SHUJABAD                    | MULTAN         | 350                   | 91.8            | 12.00        | 1.101   | 0.891      | 0.210  | 0.16    | 0.07      | 26,387,365               |
| 229        | KALYANA                   | 132kv Arif Wala                   | SAHIWAL        | 340                   | 71.7            | 14.00        | 1.207   | 0.947      | 0.260  | 0.16    | 0.07      | 36,971,255               |
| 230        | MES THING                 | 132kv Vehari                      | VEHARI         | 390                   | 92.1            | 14.10        | 1.323   | 1.003      | 0.320  | 0.16    | 0.07      | 22,889,253               |
| 231        | KOT SABZAL                | 132kv NAWAZABAD                   | RAHIM YAR KHAN | 180                   | 40.2            | 32.00        | 3.253   | 2.336      | 0.917  | 0.16    | 0.07      | 22,514,144               |
| 232        | FATEH SHAH                | 132kv Burewala Old                | VEHARI         | 320                   | 91.2            | 11.75        | 1.140   | 0.520      | 0.620  | 0.16    | 0.07      | 15,919,584               |
| 233        | AHMADABAD                 | 132kv Ludden                      | VEHARI         | 400                   | 116.5           | 15.05        | 1.065   | 0.807      | 0.258  | 0.15    | 0.09      | 33,598,710               |
| 234        | MUZAFFAR ABAD             | 132kv INDUSTRIAL ESTATE<br>MULTAN | MULTAN         | 350                   | 16.9            | 9.00         | 1.236   | 0.531      | 0.705  | 0.15    | 0.09      | 31,556,454               |
| 235        | AFTAB MEHMOOD             | 135 KV Karam Pur                  | VEHARI         | 340                   | 85.1            | 12.51        | 0.783   | 0.437      | 0.346  | 0.15    | 0.09      | 25,694,558               |
| 236        | MILLAT                    | 132kv R.Y.KHAN-I                  | RAHIM YAR KHAN | 320                   | 8.9             | 9.00         | 0.864   | 0.739      | 0.125  | 0.15    | 0.09      | 27,584,145               |
| 237        | JINNAH                    | 132kv KHAN PUR                    | RAHIM YAR KHAN | 360                   | 10.5            | 9.00         | 1.229   | 0.617      | 0.612  | 0.15    | 0.09      | 29,254,715               |
| 238        | CITY                      | 132kv SHUJABAD                    | MULTAN         | 370                   | 17.7            | 8.00         | 1.250   | 0.798      | 0.452  | 0.15    | 0.09      | 19,872,525               |
| 239        | CITY                      | 132kv LAYYAH                      | MUZAFFARGARH   | 320                   | 22.1            | 8.00         | 0.806   | 0.780      | .026   | 0.15    | 0.09      | 32,696,515               |
| 240        | COLONY-II                 | 132KV KHANEWAL                    | KHANEWAL       | 350                   | 14.1            | 8.28         | 0.885   | 0.730      | 0.155  | 0.15    | 0.09      | 45,515,162               |
| 241        | CITY-1 JHN                | 132kv JEHANIAN                    | KHANEWAL       | 380                   | 16.5            | 7.75         | 1.006   | 0.694      | 0.312  | 0.15    | 0.09      | 22,559,870               |
| 242        | GHOUS PURA                | 132kv VEHARI ROAD                 | MULTAN         | 390                   | 12.0            | 9.00         | 0.824   | 0.499      | 0.325  | 0.15    | 0.09      | 20,125,891               |
| 243        | WAINS                     | 132kv WAPDA TOWN<br>MULTAN        | MULTAN         | 330                   | 10.4            | 9.00         | 0.634   | 0.434      | 0.200  | 0.15    | 0.09      | 36,255,811               |
| 244        | CITY-II                   | 132kv LODHRAN                     | BAHAWALPUR     | 380                   | 30.3            | 9.05         | 1.072   | 0.818      | 0.254  | 0.15    | 0.09      | 36,984,561               |
| 245        | FATEH PUR                 | 132kv FATEH PUR                   | MUZAFFARGARH   | 370                   | 18.6            | 6.00         | 0.877   | 0.641      | 0.236  | 0.15    | 0.09      | 45,661,425               |
| 246        | MAROOT-IST                | 66KV MAROOT                       | B/Nagar        | 380                   | 48.2            | 9.24         | 0.694   | 0.583      | 0.111  | 0.15    | 0.09      | 29,846,581               |
| 247        | COLLEGE ROAD-II           | 132kv BAGHDAD-UL-JADID            | BAWALPUR       | 360                   | 19.5            | 9.73         | 0.898 ( | 0.644      | 0.254  | 0.15    | 0.09      | 22,365,441               |
| 248        | JEHANGIRABAD              | 132KV KHANEWAL                    | KHANEWAL       | 330                   | 53.0            | 9.62         | 0.561   | 0.436      | 0.125  | 0.15    | 0.09      | 19,557,412               |

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|------------|--------------------------------|--------------------------------------|----------------|-----------------------|-----------------|--------------|--------|------------|---------------------------------------|---------|-----------|--------------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal      | Grid Station                         | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E    | . Loss (MI | KWH)                                  | % age A | A.E. Loss | Estimated Cost<br>(M.Rs) |
|            |                                |                                      |                |                       |                 |              | Before | After      | Saving                                | Exist   | Rem.      |                          |
| 249        | POWER HOUSE-II                 | 132kv LAYYAH                         | MUZAFFARGARH   | 340                   | 106.3           | 9.00         | 0.584  | 0.472      | 0.112                                 | 0.14    | 0.08      | 30,502,54                |
| 250        | TUBEWEL(B.PUR)                 | 132kv R.Y.KHAN-I                     | RAHIM YAR KHAN | 360                   | 24.5            | 9.00         | 1.003  | 0.787      | 0.216                                 | 0.14    | 0.08      | 15,215,51                |
| 251        | TIBBA SULTAN                   | 132kv JEHANIAN                       | VEHARI         | 390                   | 82.0            | 10.20        | 1.020  | 0.770      | 0.250                                 | 0.14    | 0.08      | 22,596,81                |
| 252        | OLD SHUJAABAD RO               | 132kv<br>JAIL ROAD MULTAN            | MULTAN         | 360                   | 10.6            | 6.00         | 0.907  | 0.697      | 0.210                                 | 0.14    | 0.08      | 29,536,64                |
| 253        | USMAN E GHANI RO               | 132kv VEHARI ROAD                    | MULTAN         | 390                   | 10.8            | 6.00         | 0.954  | 0.352      | 0.602                                 | 0.13    | 0.07      | 25,874,65                |
| 254        | T.P.S/TALIRI                   | 132kv M/GARH                         | MUZAFFARGARH   | 320                   | 23.9            | 7.00         | 0.883  | 0.633      | 0.250                                 | 0.13    | 0.07      | 30,552,54                |
| 255        | ANSAR COLONY                   | 132kv VEHARI ROAD                    | MULTAN         | 380                   | 7.9             | 6.00         | 1.071  | 0.591      | 0.480                                 | 0.13    | 0.07      | 35,965,14                |
| 256        | AZIZ ABAD                      | 132kv R.Y.KHAN-II                    | RAHIM YAR KHAN | 320                   | 11.6            | 6.00         | 0.607  | 0.392      | 0.215                                 | 0.13    | 0.07      | 20,055,5                 |
| 257        | EXPRESS                        | 132kv BOSAN ROAD<br>MULTAN           | MULTAN         | 320                   | 11.4            | 6.00         | 0.678  | 0.448      | 0.230                                 | 0.13    | 0.07      | 17,282,55                |
| 258        | I.ESTET-II/Multan<br>Chemicals | 132kv INDUSTRIAL ESTATE<br>MULTAN    | MULTAN         | 390                   | 11.4            | 5.00         | 1.057  | 0.688      | 0.369                                 | 0.13    | 0.07      | 24,561,47                |
| 259        | GHALA MANDI                    | 132kv QASIM PUR MULTAN               | MULTAN         | 330                   | 10.8            | 7.00         | 0.774  | 0.459      | 0.315                                 | 0.13    | 0.07      | 32,566,25                |
| 260        | KHAN VILLAGE ROA               | 132kv BOSAN ROAD<br>MULTAN           | MULTAN         | 320                   | 8.5             | 6.00         | 0.580  | 0.455      | 0.125                                 | 0.13    | 0.07      | 36,428,12                |
| 261        | AHMAD FEEDER                   | 132kv WAPDA TOWN<br>MULTAN           | MULTAN         | 390                   | 19.1            | 6.00         | 1.020  | 0.472      | 0.548                                 | 0.13    | 0.07      | 25,545,66                |
| 262        | PIR ISMAIL                     | 132kv QASIM PUR MULTAN               | MULTAN         | 390                   | 33.6            | 9.00         | 0.646  | 0.571      | 0.075                                 | 0.13    | 0.07      | 29,314,54                |
| 263        | CITY LODHRAN                   | 132kv LODHRAN                        | BAHAWALPUR     | 380                   | 26.9            | 8.25         | 0.821  | 0.577      | 0.244                                 | 0.13    | 0.07      | 26,545,85                |
| 264        | SURAJ KUND ROAD                | 132kv QASIM PUR MULTAN               | MULTAN         | 370                   | 14.4            | 7.00         | 0.785  | 0.543      | 0.242                                 | 0.13    | 0.07      | 32,555,45                |
| 265        | GHAFOOR                        | 132kv WAPDA TOWN<br>MULTAN           | MULTAN         | 390                   | 11.8            | 5.00         | 0.887  | 0.641      | 0.246                                 | 0.12    | 0.06      | 29,871,25                |
| 266        | CITY-3                         | 132kv Burewala                       | VEHARI         | 320                   | 40.9            | 6.28         | 0.654  | 0.423      | 0.231                                 | 0.12    | 0.06      | 22,366,15                |
| 267        | SHALIMAR                       | 132kv BOSAN ROAD<br>MULTAN           | MULTAN         | 350                   | 9.7             | 5.00         | 0.749  | 0.338      | 0.411                                 | 0.12    | 0.06      | 34,652,55                |
| 268        | GULZAR MAHEL                   | 132kv BAHAWAL PUR<br>CANTT           | BAHAWALPUR     | 380                   | 14.9            | 8.16         | 0.720  | 0.455      | 0.265                                 | 0.12    | 0.06      | 28,956,35                |
| 269        | LUDDEN                         | 132kv Ludden                         | VEHARI         | 320                   | 93.3            | 5.59         | 0.662  | 0.603      | 0.059                                 | 0.12    | 0.06      | 42,556,64                |
| 270        | JAHANGIR ABAD                  | 132kv PUNJAB GOVT<br>HOUSING SOCIETY | MULTAN         | 390                   | 44.9            | 7.00         | 0.709  | 0.355      | 0.354                                 | 0.12    | 0.06      | 19,254,13                |
|            | WAPDA TOWN                     | 132kv WAPDA TOWN<br>MULTAN           | MULTAN         | 380                   | 21.2            | 8.00         | 0.541  | 0.473      | 0.068                                 | 0.12    | 0.06      | 21,551,55                |
| 272        | INDUSTRIAL-5                   | 132kv INDUSTRIAL ESTATE              | MULTAN         | 360                   | 2.2             | 2.00         | 0.788  | 0.719      | 0.069                                 | 0.12    | 0.06      | 13,255,61                |
| 273        | USMAN ABAD                     | 132kv BOSAN ROAD                     | MULTAN         | 370                   | 9.0             | 5.00         | 0.548  | 0.338      | 0.210                                 | 0.12    | 0.06      | 21,554,36                |

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| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                      | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E    | . Loss (Mł | (WH)   | % age A | A.E. Loss | Estimated Cost<br>(M.Rs) |
|------------|---------------------------|-----------------------------------|----------------|-----------------------|-----------------|--------------|--------|------------|--------|---------|-----------|--------------------------|
|            |                           |                                   |                |                       |                 |              | Before | After      | Saving | Exist   | Rem.      |                          |
| 274        | Muslim Town               | 132kv VEHARI ROAD                 | MULTAN         | 380                   | 12.7            | 8.00         | 0.145  | 0.110      | 0.035  | 0.12    | 0.06      | 36,544,114               |
| 275        | CITY-II CHOWK AZ          | 132kv CHOWK AZAM                  | MUZAFFARGARH   | 350                   | 12.5            | 4.00         | 0.484  | 0.279      | 0.205  | 0.12    | 0.06      | 18,514,545               |
| 276        | TIMBER MARKT              | 132kv MESCO MULTAN                | MULTAN         | 330                   | 8.0             | 3.00         | 0.669  | 0.349      | 0.320  | 0.12    | 0.06      | 25,544,558               |
| 277        | PIR KHURSHID COL          | 132kv BOSAN ROAD<br>MULTAN        | MULTAN         | 340                   | 9.4             | 4.00         | 0.536  | 0.326      | 0.210  | 0.11    | 0.06      | 25,554,514               |
| 278        | BAHISHTI                  | 132kv R.Y.KHAN-II                 | RAHIM YAR KHAN | 390                   | 20.4            | 4.00         | 0.636  | 0.401      | 0.235  | 0.11    | 0.06      | 21,584,514               |
| 279        | CITY JALAL PUR            | 132kv<br>JALAL PUR PIR WALA       | MULTAN         | 370                   | 19.9            | 4.00         | 0.734  | 0.638      | 0.096  | 0.11    | 0.06      | 20,255,145               |
| 280        | AKBAR ROAD                | 132kv MESCO MULTAN                | MULTAN         | 340                   | 7.1             | 4.00         | 0.520  | 0.356      | 0.164  | 0.11    | 0.06      | 18,655,612               |
| 281        | SHARIF PURA               | 132kv VEHARI ROAD                 | MULTAN         | 320                   | 8.2             | 3.00         | 0.495  | 0.245      | 0.250  | 0.11    | 0.06      | 16,515,151               |
| 282        | INDUSTRIAL ESTAT          | 132kv INDUSTRIAL ESTATE<br>MULTAN | MULTAN         | 370                   | 14.2            | 4.00         | 0.683  | 0.428      | 0.255  | 0.11    | 0.06      | 13,361,581               |
| 283        | CITY NO.3                 | 132kv Mianchannu                  | KHANEWAL       | 330                   | 5.4             | 2.32         | 0.441  | 0.421      | 0.020  | 0.11    | 0.06      | 24,566,197               |
| 284        | ASHRAF ABAD               | 132kv BOSAN ROAD<br>MULTAN        | MULTAN         | 360                   | 4.7             | 4.00         | 0.233  | 0.123      | 0.110  | 0.11    | 0.06      | 15,225,525               |
| 285        | BALAL                     | 132kv Vehari                      | VEHARI         | 380                   | 20.7            | 6.21         | 0.228  | 0.153      | 0.075  | 0.11    | 0.06      | 33,678,145               |
| 286        | INDUSTRIAL ESTAT          | 132kv INDUSTRIAL ESTATE<br>MULTAN | MULTAN         | 360                   | 7.8             | 3.00         | 0.642  | 0.392      | 0.250  | 0.11    | 0.06      | 35,665,558               |
| 287        | WAHDAT COLONY             | 132kv BOSAN ROAD<br>MULTAN        | MULTAN         | 340                   | 9.4             | 2.00         | 0.394  | 0.244      | 0.150  | 0.10    | 0.05      | 43,215,115               |
| 288        | CITY-1                    | 132kv Mailsi                      | VEHARI         | 380                   | 12.2            | 3.01         | 0.300  | 0.180      | 0.120  | 0.10    | 0.05      | 35,941,643               |
| 289        | ALLAMA IQBAL              | 132kv R.Y.KHAN-II                 | RAHIM YAR KHAN | 400                   | 18.9            | 10.00        | 1.063  | 0.405      | 0.658  | 0.10    | 0.05      | 18,696,255               |
| 290        | SULTAN PURA               | 132kv QASIM PUR MULTAN            | MULTAN         | 360                   | 11.5            | 5.00         | 0.765  | 0.510      | 0.255  | 0.10    | 0.05      | 15,125,145               |
| 291        | JANGLE BURALI             | 220KV, Vehari                     | VEHARI         | 350                   | 102.8           | 25.77        | 3.061  | 1.060      | 2.001  | 0.10    | 0.05      | 35,969,258               |
| 292        | CITY KOT CHUTTA           | 132kv KOT CHUTTA                  | D.G. KHAN      | 340                   | 87.3            | 6.97         | 0.771  | 0.516      | 0.255  | 0.10    | 0.05      | 22,554,564               |
| 293        | HOSPITAL ROAD             | 132kv D.G.KHAN-I                  | D.G. KHAN      | 330                   | 10.4            | 5.19         | 0.519  | 0.494      | 0.025  | 0.10    | 0.05      | 36,955,812               |
| 294        | CITY(RAJAN PUR)           | 132kv RAJAN PUR                   | D.G. KHAN      | 320                   | 14.1            | 2.70         | 0.501  | 0.375      | 0.126  | 0.10    | 0.05      | 1,562,584                |
| 295        | DEHLI GATE                | 132kv VEHARI ROAD                 | MULTAN         | 400                   | 12.4            | 11.00        | 0.338  | 0.279      | 0.059  | 0.10    | 0.05      | 11,587,497               |
| 296        | CITY-2                    | 132kv BASTI MALOOK                | BAHAWALPUR     | 350                   | 60.2            | 15.95        | 1.345  | 0.673      | 0.672  | 0.10    | 0.05      | 29,123,256               |
| 297        | Z-Town                    |                                   | ULTAN          | 340                   | 44.8            | 12.00        | 0.052  | 0.050      | 0.002  | 0.10    | 0.05      | 24,319,651               |
| 298        | SARDAR PUR                | 132kv BASTI MALOOK                | BAHAWALPUR     | 340                   | 53.0            | 8.09         | 0.666  | 0.641      | 0.025  | 0.09    | 0.06      | 1,225,255                |

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|            | <b>9</b>                  |                             |                | •                     | •               |              |        | U          |        | <b>H</b> | .1        | с <b>у</b> .             |
|------------|---------------------------|-----------------------------|----------------|-----------------------|-----------------|--------------|--------|------------|--------|----------|-----------|--------------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.   | . Loss (Mł | (WH)   | % age A  | A.E. Loss | Estimated Cost<br>(M.Rs) |
|            |                           |                             |                |                       |                 |              | Before | After      | Saving | Exist    | Rem.      |                          |
| 299        | SATELLITE TOWN            | 132kv BAHAWAL PUR           | BAHAWALPUR     | 340                   | 21.5            | 6.19         | 0.598  | 0.348      | 0.250  | 0.09     | 0.06      | 22,552,556               |
| 300        | AL-FARID                  | 132kv Pak Pattan            | SAHIWAL        | 340                   | 10.8            | 3.19         | 0.495  | 0.330      | 0.165  | 0:09     | 0.06      | 32,151,812               |
| 301        | KOT HAIBAT                | 132kv D.G.KHAN-II           | D.G. KHAN      | 330                   | 40.7            | 24.55        | 2.579  | 1.529      | 1.050  | 0.09     | 0.06      | 24,581,415               |
| 302        | CITY-5                    | 132kv Burewala              | VEHARI         | 330                   | 34.9            | 8.26         | 0.815  | 0.390      | 0.425  | 0.09     | 0.06      | 32,554,155               |
| 303        | SHADAB TOWN               | 132kv Sahiwal Old           | SAHIWAL        | 325                   | 12.7            | 12.12        | 1.793  | 0.739      | 1.054  | 0.09     | 0.06      | 42,251,454               |
| 304        | KHAYBANA SARWER           | 132kv D.G.KHAN-I            | D.G. KHAN      | 320                   | 30.0            | 13.40        | 1.472  | 0.903      | 0.569  | 0.09     | 0.06      | 32,662,552               |
| 305        | MACHI GOTH                | 132kv SADIQABAD             | RAHIM YAR KHAN | 320                   | 25.0            | 9.00         | 0.471  | 0.215      | 0.256  | 0.08     | 0.05      | 15,515,105               |
| 306        | SADAR-UD-DIN SHA          | 132kv SHUJABAD              | MULTAN         | 320                   | 14.5            | 8.00         | 0.587  | 0.333      | 0.254  | 0.08     | 0.05      | 25,514,513               |
| 307        | M.CHANNU C-2              | 132kv Mianchannu            | KHANEWAL       | 320                   | 23.5            | 5.10         | 0.642  | 0.292      | 0.350  | 0.08     | 0.05      | 22,578,584               |
| 308        | CITY KHAIRPUR             | 132kv K.P.T Wali            | BAHAWALPUR     | 320                   | 37.7            | 4.24         | 0.184  | 0.179      | 0.006  | 0.08     | 0.05      | 36,569,525               |
| 309        | ISLAM GARH (EXP)          | 132kv KHAN PUR              | RAHIM YAR KHAN | 280                   | 208.7           | 41.00        | 4.848  | · 1.868    | 2.980  | 0.08     | 0.05      | 11,255,565               |
| 310        | CHOWKI HIRAJ              | 132kv KABIR WALA            | KHANEWAL       | 200                   | 130.7           | 35.42        | 3.082  | 1.567      | 1.515  | 0.08     | 0.05      | <b>6,5</b> 58,585        |
| 311        | CHACHARAN SHARIF          | 132kv Mian Wali Qureshian   | RAHIM YAR KHAN | 310                   | 183.7           | 49.00        | 6.034  | 1.414      | 4.620  | 0.08     | 0.05      | 15,215,114               |
| 312        | CHAK-24/10 R              | 132kv Kacha Khuh            | KHANEWAL       | 280                   | 108.0           | 38.76        | 5.134  | 1.284      | 3.850  | 0.08     | 0.05      | 16,952,812               |
| 313        | MEHARIA CITY              | 132kv Faqir Wali            | B/Nagar        | 230                   | 99.5            | 32.10        | 3.560  | 1.995      | 1.565  | 0.08     | 0.05      | 26,551,558               |
| 314        | MERAY SHAH                | 132kv SADIQABAD             | RAHIM YAR KHAN | 260                   | 70.2            | 44.00        | 2.861  | 2.166      | 0.695  | 0.08     | 0.05      | 21,251,552               |
| 315        | M/GANG                    | 66KV Mecleod Gunj           | B/Nagar        | 300                   | 164.6           | 32.46        | 5.249  | 1.259      | 3.990  | 0.08     | 0.05      | 29,548,748               |
| 316        | MIAN WALA BANGLO          | 132kv Haroon Abad           | B/Nagar        | 285                   | 135.7           | 41.12        | 4.115  | 2.138      | 1.977  | 0.07     | 0.05      | 24,545,321               |
| 317        | SHAH JAMAL                | 132kv MARA KHAS             | MUZAFFARGARH   | 310                   | 130.6           | 38.00        | 5.568  | 1.588      | 3.980  | 0.07     | 0.05      | 45,845,811               |
| 318        | SHARIF ANSARI             | 132kv GUJRAT SOUTH          | MUZAFFARGARH   | 200                   | 108.8           | 29.00        | 3.542  | 1.894      | 1.648  | 0.07     | 0.05      | 19,555,825               |
| 319        | NAWAN CHOWK               | 132KV KHANEWAL              | KHANEWAL       | 240                   | 103.6           | 40.17        | 3.155  | 1.530      | 1.625  | 0.07     | 0.05      | 18,922,815               |
| 320        | KARMAN WALA               | 132kv Kameer                | SAHIWAL        | 240                   | 51.7            | 36.45        | 2.818  | 1.763      | 1.055  | 0:07     | 0.05      | 22,541,154               |
| 321        | QADIR PUR                 | 132kv<br>JALAL PUR PIR WALA | MULTAN         | 260                   | 200.2           | 46.00        | 2.103  | 1.048      | 1.055  | 0.07     | 0.05      | 16,615,458               |
| 322        | CHAK-NO.28/10 R           | 132kv Kacha Khuh            | KHANEWAL       | 290                   | 108.0           | 40.46        | 3.825  | 2.180      | 1.645  | 0.07     | 0.05      | 22,525,514               |
| 323        | SHEIKH TAYYAB             | 132kv Chichawatni           | SAHIWAL        | 220                   | 93.3            | 31.90        | 3.714  | 2.089      | 1.625  | 0.07     | 0.05      | 36,251,544               |

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| Sr. | 11KV Feeder /    | Grid Station            | Circle         | Max. Load | Length | % age | A.E     | . Loss (Mł | (WH)   | % age A.E. Loss |       | Estimated Cost |
|-----|------------------|-------------------------|----------------|-----------|--------|-------|---------|------------|--------|-----------------|-------|----------------|
| No. | Proposal         |                         |                | Recorded  | (K.M)  | V.D   | Before  | After      | Saving | Exist           | Rem.  | (M.Rs)         |
| 324 | KHANBELA         | 132kv                   | MULTAN         | 300       | 237.2  | 32.00 | 5.620   | 0.730      | 4.890  | 0.07            | 0.05  | 36,655,258     |
| 325 | ADDA KHIRAJ PURA | 132kv Bahawal Nagar     | B/Nagar        | 165       | 85.2   | 32.63 | 2.043   | 1.058      | 0.985  | 0.07            | 0.05  | 22,851,454     |
| 326 | CITY-II          | 132kv MARA KHAS         | MUZAFFARGARH   | 180       | 30.4   | 3.00  | 2.095   | 1.483      | 0.612  | 0.07            | 0.05  | 14,566,845     |
| 327 | GHULAM QADIR     | 132kv Arif Wala         | SAHIWAL        | 260       | 57.6   | 36.95 | 2.663   | 1.031      | 1.632  | 0.06            | 0.04  | 22,515,456     |
| 328 | AL-MURAD         | 132kv Dahran Wala       | B/Nagar        | 280       | 85.9   | 38.94 | 3.050   | 1.42.5     | 1.625  | 0.06            | 0.04  | 43,245,115     |
| 329 | WASANDAY WALI    | 132kv MARA KHAS         | MUZAFFARGARH   | 300       | 79.5   | 38.00 | 3.696   | 2.671      | 1.025  | 0.06            | 0.04  | 13,255,225     |
| 330 | SARAI SIDHU      | 132kv Head Sidhnai      | KHANEWAL       | 300       | 254.1  | 39.65 | 4.026   | 1.976      | 2.050  | 0.06            | 0.04  | 35,658,798     |
| 331 | AHSAN ABAD       | 132kv Harrapa           | SAHIWAL        | 280       | 74.3   | 37.14 | 3.154   | 2.128      | 1.026  | 0.06            | 0.04  | 22,251,142     |
| 332 | BAHAUDDIN ZAKARI | 132kv INDUSTRIAL ESTATE | MULTAN         | 310       | 14.5   | 2.00  | 2.555   | 1.530      | 1.025  | 0.06            | 0.04  | 42,548,594     |
| 333 | SAUDULLAH PUR    |                         | BAHAWALPUR     | 300       | 109.0  | 38.79 | 2.420   | 1.445      | 0.975  | 0.06            | 0.04  | 25,584,581     |
| 334 | EXPRESS-1        | 132kv SADIQABAD         | RAHIM YAR KHAN | 260       | 134.2  | 39.00 | 3.177   | 2.152      | 1.026  | 0.06            | 0.04  | 25,646,122     |
| 335 | TIBI QASRANI     | 132kv N.A.WALI          | D.G. KHAN      | 220       | 169.8  | 35.51 | 2.760   | 2.172      | 0.588  | 0.06            | 0.04  | 15,546,162     |
| 336 | MUOWALA          | 132kv Ali Pur           | MUZAFFARGARH   | 270       | 79.6   | 29.00 | 3.156   | 1.806      | 1.350  | 0.06            | 0.04  | 25,155,612     |
| 337 | ABBASIA          | 132kv LIAQAT PUR        | RAHIM YAR KHAN | 240       | 71.8   | 36.00 | 2.712   | 1.717      | 0.995  | 0.06            | 0.04  | 36,321,520     |
| 338 | NEW MUSA PAK     | 132kv ΜΑΑΝ ΚΟΤ          | MULTAN         | 170       | 4.5    | 2.00  | 1.644   | 0.832      | 0.812  | 0.06            | 0.04  | 21,562,554     |
| 339 | NEW SANGI        | 132kv MAAN KOT          | MULTAN         | 300       | 114.0  | 32.00 | 2.779   | 1.774      | 1.005  | 0.06            | 0.04  | 14,555,847     |
| 340 | TUBEWELL-6       | 132kv KOT ADDU          | MUZAFFARGARH   | 300       | 66.3   | 41.00 | 2.459   | 0.894      | 1.565  | 0.06            | 0.04  | 43,258,451     |
| 341 | PIROWAL-II       | 132kv Makhdoom Pur      | KHANEWAL       | 270       | 60.4   | 27.83 | 2.442   | 1.817      | 0.625  | 0:06            | 0.04  | 11,255,145     |
| 342 | LALAZAR          | 132kv CHOBARA           | MUZAFFARGARH   | 310       | 172.8  | 39.00 | 3.232   | 1.182      | 2.050  | 0.05            | 0.04  | 14,548,518     |
| 343 | DILBER           | 132kv ROJHAN            | D.G. KHAN      | 160       | 150.3  | 41.66 | 1.374   | 1.124      | 0.250  | 0.05            | 0.04  | 15,555,145     |
| 344 | THUL HAMZA (KB-7 | 132kv KHAN BELA         | RAHIM YAR KHAN | 220       | 166.5  | 29.00 | 2.776   | 1.520      | 1.256  | 0.05            | 0.04  | 26,254,555     |
| 345 | AL-HAIDER        | 132kv Hasil Pur         | BAHAWALPUR     | 210       | 119.7  | 28.69 | 2.346   | 1.320      | 1.026  | 0.05            | 0.04  | 2,251,144      |
| 346 | JAMAN SHAH       | 66KV KOT SULTAN         | MUZAFFARGARH   | 260       | 84.7   | 7.00  | 3.364   | 1.739      | 1.625  | 0.05            | 0.04  | 36,454,544     |
| 347 | MEHAR WALI       | 132kv Noor Ser          | agar           | 180       | 115.9  | 26.74 | 2.018 ( | 3.993      | 1.025  | 0:05            | ,0.04 | 19,925,58;     |
| 348 | KALANCH WALA     | 220KV, Mari Sh, Shaira  | BAHAWALPUR     | 200       | 145.1  | 32.39 | 2.477   | 1.552      | 0.925  | 0.05            | 0.04  | 21,525,52      |

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|------------|---------------------------|-------------------------------|----------------|-----------------------|-----------------|--------------|--------|---------------|-----------------------------------------------------------------------------------------|---------|-----------|--------------------------|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                  | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E    | . Loss (Mł    | <wh)< th=""><th>% age A</th><th>A.E. Loss</th><th>Estimated Cost<br/>(M.Rs)</th></wh)<> | % age A | A.E. Loss | Estimated Cost<br>(M.Rs) |
| -          |                           |                               |                |                       |                 |              | Before | After         | Saving                                                                                  | Exist   | Rem.      |                          |
| 349        | GHAZI                     | 132kv NAWAZABAD               | RAHIM YAR KHAN | 300                   | 58.8            | 28.00        | 2.442  | 1.317         | 1.125                                                                                   | 0.05    | 0.04      | 43,255,455               |
| 350        | RAFIQ ABAD                | 132kv Fort Abbas              | B/Nagar        | 180                   | 79,5            | 27.86        | 2.002  | 1.092         | 0.910                                                                                   | 0.05    | 0.04      | 17,561,585               |
| 351        | CITY JUNPUR               | 132kv KHAN BELA               | RAHIM YAR KHAN | 250                   | 166.4           | 27.00        | 3.310  | 1.744         | 1.566                                                                                   | 0.05    | 0.04      | 21,545,515               |
| 352        | TUBEWELL-10               | 132kv KOT ADDU                | MUZAFFARGARH   | 140                   | 136.8           | 26.00        | 1.797  | 0.955         | 0.842                                                                                   | 0.05    | 0.04      | 11,915,115               |
| 353        | HAFIZ DAEM                | 132kv Qadirabad               | SAHIWAL        | 280                   | 85.8            | 32.13        | 3.075  | 1.385         | 1.690                                                                                   | 0.05    | 0.04      | 22,555,154               |
| 354        | GHAZI PUR                 | 132kv<br>JALAL PUR PIR WALA   | MULTAN         | 260                   | 118.7           | 26.00        | 2.714  | 1.739         | 0.975                                                                                   | 0.05    | 0.04      | 19,225,252               |
| 355        | KUD WALA                  | 132kv YAZMAN                  | BAHAWALPUR     | 85                    | 156.0           | 13.72        | 2.172  | 1.253         | 0.919                                                                                   | 0.05    | . 0.04    | 25,454,544               |
| 356        | BUREWALA ROAD             | 132kv Arif Wala               | SAHIWAL        | 300                   | 65.0            | 30.67        | 2.901  | 1.301         | 1.600                                                                                   | 0.05    | 0.04      | 36,225,514               |
| 357        | CITY VAHOVA               | 132kv N.A.WALI                | D.G. KHAN      | 300                   | 90.8            | 28.91        | 3.777  | 1.967         | 1.810                                                                                   | 0.05    | 0.04      | 25,401,555               |
| 358        | SANGHI                    | 132kv KHANEWAL ROAD<br>MULTAN | MULTAN         | 230                   | 106.1           | 30.00        | 2.429  | 1.404         | 1.025                                                                                   | 0.05    | 0.04      | 12,225,154               |
| 359        | RAZA ABAD                 | 132kv KABIR WALA              | KHANEWAL       | 310                   | 69.0            | 27.94        | 3.074  | 2.024         | 1.050                                                                                   | 0.05    | 0.04      | 36,598,125               |
| 360        | TUBEWELL-7                | 132kv KOT ADDU                | MUZAFFARGARH   | 160                   | 124.4           | 24.00        | 1.968  | 0.918         | 1.050                                                                                   | 0.04    | 0.03      | 12,555,448               |
| 361        | ZAFFAR ABAD               | 132kv<br>JALAL PUR PIR WALA   | MULTAN         | 280                   | 92.6            | 29.00        | 3.156  | 1.531         | 1.625                                                                                   | 0.04    | 0.03      | 27,255,855               |
| 362        | 11-KV GUJIANI             | 132kv Chishtian               | B/Nagar        | 220                   | 111.2           | 24.28        | 2.814  | 1.609         | 1.205                                                                                   | 0.04    | 0.03      | 35,116,165               |
| 363        | FORT COLONY               | 132kv MESCO MULTAN            | MULTAN         | 290                   | 1.7             | 1.00         | 1.712  | 0.771         | 0.941                                                                                   | 0.04    | 0.03      | 15,514,558               |
| 364        | UMER KOT                  | 132kv ROJHAN                  | D.G. KHAN      | 150                   | 175.1           | 30.66        | 1.339  | 0.724         | 0.615                                                                                   | 0.04    | 0.03      | 9,881,584                |
| 365        | MURGHAI                   | 132kv RAJAN PUR               | D.G. KHAN      | 280                   | 167.7           | 33.32        | 2.719  | 1.843         | 0.876                                                                                   | 0.04    | 0.03      | 25,456,156               |
| 366        | JHOKE WAINS               | 132kv MAAN KOT                | MULTAN         | 180                   | 8.2             | 2.00         | 2.124  | 1.066         | 1.058                                                                                   | 0.04    | 0.03      | 11,875,258               |
| 367        | KAMAND                    | 132kv Burewala                | VEHARI         | 310                   | 80.3            | 30.69        | 2.358  | 1.107         | 1.251                                                                                   | 0.04    | 0.03      | 25,581,558               |
| 368        | NAIWALA                   | 132kv Harrapa                 | SAHIWAL        | 280                   | 91.9            | 30.79        | 2,789  | 1.534         | 1.255                                                                                   | 0.04    | 0.03      | 32,145,454               |
| 369        | MUSA NAGAR                | 132kv SADIQABAD               | RAHIM YAR KHAN | 160                   | 65.1            | 22.00        | 2.441  | 1.385         | 1.056                                                                                   | 0.04    | 0.03      | 18,269,625               |
| 370        | RANG PUR                  | 220KV, Mari Sh. Shajra        | BAHAWALPUR     | 160                   | 127.0           | 17.67        | 4.391  | 1.431         | 2.960                                                                                   | 0.04    | 0.03      | 22,525,566               |
| 371        | VEHOVA                    | 132kv N.A,WALI                | D.G. KHAN      | 150                   | 93.8            | 25.75        | 1.848  | 1.223         | 0.625                                                                                   | 0.04    | 0.03      | 15,582,558               |
| 372        | AKRAM SHAHEED             | 220KV, Vehari                 | VEHARI         | 240                   | 53.7            | 24.52        | 2.871  | 1.246         | 1.625                                                                                   | 0.04    | 0.03      | 12,558,155               |
| 373        | SHAHEED CHOWK             | 132kv Dahran Wala             | B/Nagar        | 220                   | 83.0            | 22.04        | 2.318  | 0.759         | 1.558                                                                                   | 0.04    | 0.03      | 33,255,514               |

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|                    |                           |                                   |                | 4.                    | 1. 1. <b>1.</b> |              |         |          |        |         |          | 4 J                      |
|--------------------|---------------------------|-----------------------------------|----------------|-----------------------|-----------------|--------------|---------|----------|--------|---------|----------|--------------------------|
| Sr.<br>Io.         | 11KV Feeder /<br>Proposal | Grid Station                      | Circle         | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D | A.E.    | Loss (Mł | (WH)   | % age A | .E. Loss | Estimated Cost<br>(M.Rs) |
|                    |                           |                                   |                |                       |                 |              | Before  | After    | Saving | Exist   | Rem.     |                          |
| 74                 | FIRDOUS                   | 132kv Chichawatni                 | SAHIWAL        | 220                   | 65.4            | 25.04        | 2.375   | 0.714    | 1.661  | 0.04    | 0.03     | 39,212,585               |
| 75                 | Islami Colony             | 132kV BAHAWAL PUR                 | BAHAWALPUR     | 280                   | 18.5            | 18.90        | 3.732   | 1.807    | 1.926  | 0.04    | 0.03     | 22,585,561               |
| 76                 | FAQIR SHAH                | 132kv Noor Ser                    | B/Nagar        | 130                   | .56.1           | 23.21        | 1.250   | 0.994    | 0.256  | 0.04    | 0.03     | 25,125,525               |
| 77                 | HUSSAIN ABAD              | 132kv R.Y.KHAN-I                  | RAHIM YAR KHAN | 240                   | 109.4           | 27.00        | 2.443   | 0.893    | 1.550  | 0.04    | 0.03     | 25,200,555               |
| 78                 | CHABRI BALA               | 132kv D.G.KHAN-I                  | D.G. KHAN      | 260                   | 113.7           | 29.52        | 2.558   | 0.578    | 1.980  | 0.04    | 0.03     | 36,615,525               |
| 79                 | PIPLY                     | 220KV, Vehari                     | VEHARI         | 165                   | 130.2           | 18.20        | 2.536   | 1.481    | 1.055  | 0.04    | 0.03     | 16,256,581               |
| 80                 | HAZOOR ABAD               | 132kv Chichawatni                 | SAHIWAL        | 300                   | 76.9            | 28.47        | 2.740   | 1.690    | 1.050  | 0.04    | 0.03     | 55,446,442               |
| 31                 | CHAK-29                   | 132kv Kacha Khuh                  | KHANEWAL       | 280                   | 112.3           | 23.63        | 2.399   | 0.745    | 1.654  | 0.04    | 0.03     | 425,552,54               |
| 32                 | BAKANI                    | 132kv DAMMAR WALA                 | MUZAFFARGARH   | 160                   | 104.5           | 21.00        | 1.531   | 0.717    | 0.815  | 0.04    | 0.03     | 19,812,58                |
| 33.                | KHOKHAR                   | 132kv INDUSTRIAL ESTATE<br>MULTAN | MULTAN         | 220                   | 90.6            | 23.00        | 1.770   | 1.145    | 0.625  | 0.04    | 0.03     | 32,251,56                |
| 34                 | NIZAM ABAD                | 132kv Mian Wali Qureshian         | RAHIM YAR KHAN | 250                   | 98.5            | 28.00        | 1.569   | 0.882    | 0.687  | 0.04    | 0.03     | 15,614,545               |
| 35                 | TAKHT MEHAL               | 132kv Noor Ser                    | BAHWALNAGAR    | 200                   | 228.1           | 18.36        | 1.935   | 1.483    | 0.452  | 0.04    | 0.03     | 14,336,96                |
| 36                 | MUHAMMAD PUR              | 66KV UCH SHARIF/ Kot<br>Khalifa   | BAHAWALPUR     | 280                   | 195.8           | 21.31        | 2.917   | 1.288    | 1.629  | 0.04    | 0.03     | 19,825,544               |
| 37                 | BUKHARA                   | 132kv JAM PUR                     | D.G. KHAN      | 180                   | 220.2           | 14.37        | 0.457   | 0.207    | 0.250  | 0.04    | 0.03     | 22,625,54                |
| 38                 | M/ABAD-II                 | 66KV Mecleod Gunj                 | BAHWALNAGAR    | 170                   | 145.3           | 22.16        | 1.026   | 0.472    | 0.554  | 0.03    | 0.02     | 9,185,582                |
| 39                 | Sahan wala                | 132kv FAZIL PUR                   | D.G. KHAN      | 220                   | 177.2           | 24.58        | 1.475   | 0.517    | 0.958  | 0.03    | 0.02     | 18,235,822               |
| 90                 | SHIKAR PUR                | 132kv RAJAN PUR                   | D.G. KHAN      | 280                   | 176.1           | 24.29        | 1.788   | 1.204    | 0.584  | 0.03    | 0.02     | 32,515,55                |
| 91                 | MAHMOOD KOT               | 132kv GUJRAT SOUTH                | MUZAFFARGARH   | 190                   | 148.7           | 19.00        | 1.323   | 0.361    | 0.963  | 0.03    | 0.02     | 24,315,32                |
| 92                 | CITY FEEDER               | 132kv Arif Wala                   | SAHIWAL        | 310                   | 10.3            | 2.54         | 0.423   | 0.173    | 0.250  | 0.03    | 0.02     | 12,055,42                |
| 3                  | WARANN SERAN              | 66KV K.L.ESSAN                    | MUZAFFARGARH   | 270                   | 211.8           | 25.00        | 2.912   | 1.646    | 1.266  | 0.03    | 0.02     | 15,364,56                |
| 4                  | MASOOM SHAH               | 132kv Pak Pattan                  | SAHIWAL        | 310                   | 78.2            | 21.55        | 1.946   | 0.891    | 1.055  | 0.03    | 0.02     | . 36,625,56              |
| 95                 | K.D.QURESHI               | 132kv GUJRAT SOUTH                | MUZAFFARGARH   | 280                   | 124.7           | 18.00        | 2.237   | 1.187    | 1.050  | 0.03    | 0.02     | 143,658,51               |
| <del>.</del><br>36 | QATALL PUR                | 132kv Head Sidhnai                | KHANEWAL       | 310                   | 153.1           | 12.64        | 1.948   | 1.553    | 0.395  | 0.03    | 0.02     | 25,515,57                |
| 97<br>97           | HOOTA-CITY                | 132kv Hoota                       | HIWAL          | 300                   | 116.8           | 16.70        | 1.298 / | 0.848    | 0.450  | 0.03    | • 0.02   | 35,414,88                |

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|            |                           |                               |              |                       |                 |              |        | Loss (MI     | (WH)   | % age A  | .E. Loss |                          |  |
|------------|---------------------------|-------------------------------|--------------|-----------------------|-----------------|--------------|--------|--------------|--------|----------|----------|--------------------------|--|
| Sr.<br>No. | 11KV Feeder /<br>Proposal | Grid Station                  | Circle       | Max. Load<br>Recorded | Length<br>(K.M) | % age<br>V.D |        | . 2033 (1411 |        | 70 age F |          | Estimated Cost<br>(M.Rs) |  |
|            |                           |                               |              |                       |                 |              | Before | After        | Saving | Exist    | Rem.     |                          |  |
| 898        | GYPSUM                    | 132kv TOUNSA                  | D.G. KHAN    | 220                   | 142.5           | 15.62        | 1.148  | 0.194        | 0.954  | 0.03     | 0.02     | 25,649,654               |  |
| 399        | NABI PUR FEEDER           | 132kv UCH SHARIF              | BAHAWALPUR   | 140                   | 154.8           | 9.83         | 0.770  | 0.320        | 0.450  | 0.03     | 0.02     | 22,252,514               |  |
| 400        | SHEIKH FAZIL              | 132kv Shaikh Fazil            | VEHARI       | 310                   | 88.4            | 12.80        | 1.241  | 0.983        | 0.258  | 0.03     | 0.02     | 36,215,878               |  |
| 101        | KARAM PUR                 | 134 KV Karam Pur              | VEHARI       | 310                   | 50.3            | 7.50         | 0.700  | 0.675        | 0.025  | 0.03     | 0.02     | 9,654,584                |  |
| 402        | ISLAM NAGAR               | 132kv QASIM PUR MULTAN        | MULTAN       | 310                   | 11.1            | 4.00         | 0.447  | 0.327        | 0.120  | 0.03     | 0.02     | 15,954,455               |  |
| 403        | MANZOOR ABAD              | 132kv QASIM BAGH<br>MI II TAN | MULTAN       | 310                   | 5.9             | 3.00         | 0.523  | 0.273        | 0.250  | 0.03     | 0.02     | 33,556,114               |  |
| 404        | INDUSTRIAL                | 132kv Chichawatni             | SAHIWAL      | 300                   | 32.4            | 10.93        | 1.265  | 0.615        | 0.650  | 0.03     | 0.02     | 36,528,470               |  |
| 105        | EID GAH                   | 132kv LAYYAH                  | MUZAFFARGARH | 290                   | 17.6            | 9.00         | 0.861  | 0.651        | 0.210  | 0.03     | 0.02     | 1 <b>9;2</b> 63,25       |  |
| 06         | LIAQAT SHAHEED            | 132kv Vehari                  | VEHARI       | 280                   | 79.4            | 23.22        | 1.928  | 1.300        | 0.628  | 0.03     | 0.02     | 25,582,36                |  |
| 07         | HALLA                     | 132kv Kameer                  | SAHIWAL      | 270                   | 48.8            | 11.33        | 0.743  | 0.346        | 0.397  | 0.03     | 0.02     | 14,981,514               |  |
| 108        | DUNIA PUR                 | 132kv QASIM PUR MULTAN        | MULTAN       | 250                   | 29.6            | 10.00        | 0.549  | 0.444        | 0.105  | 0.03     | 0.02     | 23,614,564               |  |
| 109        | NEW HIGH COURT            | 132kv SURAJ MIANI<br>MULTAN   | MULTAN       | 250                   | 14.8            | 7.00         | 0.092  | 0.052        | 0.040  | 0:02     | 0.02     | 5,665,13                 |  |
| 10         | SHAH PUR                  | 66KV K.L.ESSAN                | MUZAFFARGARH | 210                   | 214.0           | 18.00        | 2.784  | 1.628        | 1.156  | 0.02     | 0.02     | 32;451,51                |  |
| 111        | PIR SAWAG                 | 66KV K.L.ESSAN                | MUZAFFARGARH | 200                   | 179.3           | 16.00        | 2.267  | 0.717        | 1.550  | 0.02     | 0.02     | 16,558,18                |  |
| 12         | Lal Shah                  | 132 KV Qaboola                | VEHARI       | 380                   | 111.7           | 36.22        | 4.084  | 1.103        | 2.981  | 0.02     | 0.01     | 29,659,87                |  |
| 13         | Noor Pur                  | 132KV Noor Pur                | SAHIWAL      | 380                   | 49.0            | 33.00        | 2.321  | 1.063        | 1.258  | 0.02     | 0.01     | 21,224,910               |  |
| 114        | Mehdi Khan                | 132KV Qaboola                 | VEHARI       | 380                   | 174.6           | 32.06        | 5.020  | 2.380        | 2.640  | 0.02     | 0.01     | 26,987,41                |  |
| 115        | Shanti Nagar              | 132KV Khanewal                | KHANEWAL     | 380                   | 61.6            | 23.34        | 1.732  | 0.632        | 1.100  | 0.02     | 0.01     | 26,694,555               |  |
| 116        | Bhadar Pur                | 132KV<br>J.P.P.Wala           | MULTAN       | 380                   | 98.2            | 9.71         | 0.884  | 0.224        | 0.660  | 0.02     | 0.01     | 24,764,853               |  |
| 17         | Badla Sant                | 132KV Makhdoom Rashid         | MULTAN       | .370                  | 119.5           | 34.06        | 3.299  | 2.274        | 1.025  | 0.02     | 0.01     | 25,151,14                |  |
| 18         | Dokota                    | 132 KV Chak 211/W.B           | VEHARI       | 370                   | 198.9           | 34.00        | 4.400  | 1.750        | 2.650  | 0.02     | 0.01     | 32,626,250               |  |
| 19         | Nadir Wali                | 132 KV Ludden                 | VEHARI       | 370                   | 132.7           | 21.00        | 3.272  | 1.647        | 1.625  | 0.02     | 0.01     | 22,125,154               |  |
| 20         | Noor Garh                 | 132 KV Chak 211/W.B           | VEHARI       | 340                   | 62.9            | 25.45        | 2.466  | 1.361        | 1.105  | 0.01     | 0.01     | 21,651,58                |  |
| 121        | Ismail Pur                | 132KV Uch Sharif              | BAHAWALPUR   | . 320                 | 126.9           | 46.91        | 8.283  | 1.633        | 6.650  | 0.01     | 0.01     | 25,585,55                |  |
| 122        | City-III                  | 132 KV jehanian               | KHANEWAL     | 260                   | 61.6            | 23.11        | 0.158  | 0.089        | 0.069  |          |          | 5,655,64                 |  |

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PC-4/E/Monthly/copy of SAP (version1).xls

# MOBILE PHONE METER READING

PROJECT

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### Scope and Cost MEPCO Wide Expansion of Mobile Phones Meter Reading Project

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|-----|-----|---------------|--|

| A     | Scope - HHUS/Mobiles                                                                  |         |
|-------|---------------------------------------------------------------------------------------|---------|
|       | Number of Subdivisions with Mobile Devices                                            |         |
|       | 1 Total # of Subdivisions of MEPCO:                                                   | 181     |
|       | 2 MMR Implemented in # of Subdivs of MEPCO                                            | 181     |
|       | 3 Subdivision anticipated to be added in next five years                              | 0       |
|       | 4 Total Subdivisions of MEPCO without MMR:                                            | 0       |
|       |                                                                                       |         |
|       | Number of Mobile Phones Required per Subdivision                                      |         |
|       | 5 Total Number of Customers in MEPCO (June 2017):                                     | 6861310 |
|       | 6 Total Number of Domestic & Commercial Customers:                                    | 6707708 |
| •     | 7 Average number of Customers that will be read in 20 batches in a Subdivision (6/1): | 37059   |
|       | 8 Average Time to Read one Meter (in minutes):                                        | 3.5     |
|       | 9 Meters-Customers that can be read in 7 hours by a Meter Reader in a day (Working    | 120     |
|       | 10 Meters-Customers that can be read by a Meter Reader in 20 Batches:                 | 2400    |
|       | 11 Number of Meter Readers Required to Read '37059' meters in a subdivision in 20     | 15      |
| •     | 12 Number of Mobile Devices Required in Subdiv for Meter Readers:                     | 15      |
|       | 13 One Mobile Phone for MRS & One Spare per subdivision:                              | 2       |
|       | 14 Total Mobile Devices Required per Subdivision:                                     | 17      |
|       |                                                                                       |         |
|       | Total Number of Devices Required for MEPCO                                            |         |
|       | 15 Total Mobile Devices Required per Subdivision:                                     | 17      |
|       | 16 Total Subdivisions of MEPCO without MMR:                                           | 0       |
|       | Total No. of Mobile devices available:                                                | 2073    |
|       | 17 Total Number of Mobile Phones Required for MEPCO:                                  | 3157    |
| 11 A. | Total Mobile Phones already procured:                                                 | 2073    |
|       | Net Mobile Phones requirement:                                                        | 1084    |
|       |                                                                                       |         |

|          | 18             | Desktops (PCs) + 50 Spares                                                       | Ot                                              | neiseguipinente                                 |                                          | anter de la companya de la companya de la companya de la companya de la companya de la companya de la companya | 231                 |                                                 | <u></u> |
|----------|----------------|----------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------|---------|
|          | 19<br>20<br>21 | Printers + 50 Spares<br>DSL Connectivity + 50 spares<br>Furniture & Acessories   |                                                 |                                                 |                                          |                                                                                                                | 231<br>50<br>50     | and<br>An Anna Anna Anna<br>Anna Anna Anna Anna |         |
|          | 22             | Split AC + 50 spares                                                             |                                                 |                                                 | an an an an an an an an an an an an an a |                                                                                                                | . 50                |                                                 |         |
| <b>6</b> |                |                                                                                  |                                                 | ility Motor Bik                                 | ar                                       |                                                                                                                | river nor           |                                                 |         |
| D        | 29             | Total Requirement:                                                               | Mob                                             | ility - Motor Bik                               | e5                                       |                                                                                                                | 2500                |                                                 |         |
| D.       | 29<br>30       | Total Requirement:<br>Procurement Staggered Year<br>Areas and so on. Procurement | Mob<br>Wise - for Distribu<br>t in FY 2022 (40% | ility <u>Motor Bik</u><br>ution to Subdivi<br>) | es                                       | t                                                                                                              | 2500<br><b>1000</b> |                                                 |         |



#### COSTS:

#### A Capital Expenditure Year Wise (in Rs.) 5.91

|   | <b>Decontina</b> tion     |              | ecost/ Units |                  | FY2021-22          | N N 2022 28   | - FY 2023-24 | 2         | Soral       |
|---|---------------------------|--------------|--------------|------------------|--------------------|---------------|--------------|-----------|-------------|
|   | CAPEX                     |              | 가지 아니 아이들의   | (Under Warranty) | Procured Remianing |               |              |           |             |
| 1 | Mobile<br>Phones          | 1,084        | 26,000       | -                | 28,184,000         | 53,898,000    |              | -         | 82,082,000  |
| 0 | ther Equipment            | and Transpo  | rtation:     |                  |                    |               |              |           | · .         |
| 2 | PCs                       | 231          | 70,000       | 3,234,000        | 3,234,000          | 3,234,000     | 3,234,000    | 3,234,000 | 16,170,000  |
| 3 | Printers                  | 231          | 50,000       | 2,310,000        | 2,310,000          | 2,310,000     | 2,310,000    | 2,310,000 | 11,550,000  |
| 4 | DSL<br>Connectivity       | 50           | 18,000       | 180,000          | 180,000            | 180,000       | 180,000      | 180,000   | 900,000     |
| 5 | Furniture &<br>Acessories | 50           | 15,000       | 150,000          | 150,000            | 150,000       | 150,000      | 150,000   | 750,000     |
| 6 | Split Acs                 | 50           | 45,000       | 450,000          | 450,000            | 450,000       | 450,000      | 450,000   | 2,250,000   |
| 7 | Bikes                     | 2,500        | 70,000       | -                | -                  | 70,000,000.00 | 105,000,000  |           | 175,000,000 |
|   | Total C                   | apex Require | ed:          | 6,324,000        | 34,508,000         | 130,222,000   | 111,324,000  | 6,324,000 | 288,702,000 |
|   | Total Capex               | Required (in | MRs.)        | б                | 35                 | 130           | 111          | 6         | 289         |

| Bescription -           | units -                                                                                                         | Annual<br>Opex/ Unit | FY 2020-21 | FY 2021-22 | FY 2022-23 | FY 2023-24 | FY 2024-25 | Total       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------|------------|------------|------------|------------|------------|-------------|
| Opex                    | In the second second second second second second second second second second second second second second second |                      |            |            |            |            |            |             |
| 1 Mobile                | 3,157                                                                                                           | 500                  | 1,036,500  | 1,578,500  | 1,578,500  | 1,578,500  | 1,578,500  | 7,350,500   |
| Other Equipment         | and Transpo                                                                                                     | rtation:             |            |            |            |            |            |             |
| 2 PCs                   | 231                                                                                                             | 3,000                | 138,600    | 277,200    | 415,800    | 554,400    | 693,000    | 2,079,000   |
| 3 Printers              | 231                                                                                                             | 24,000               | 1,108,800  | 2,217,600  | 3,326,400  | 4,435,200  | 5,544,000  | 16,632,000  |
| 4 DSL<br>Connectivity   | 50                                                                                                              | 24,000               | 240,000    | 480,000    | 720,000    | 960,000    | 1,200,000  | 3,600,000   |
| 5 Furniture & Acessries | 50                                                                                                              | 5,000                | 50,000     | 100,000    | 150,000    | 200,000    | 250,000    | 750,000     |
| 6 Split Acs             | 50                                                                                                              | 2,500                | 25,000     | 50,000     | 75,000     | 100,000    | 125,000    | 375,000     |
| 7 Bikes                 | 2,500                                                                                                           | 30,000               |            |            | 30,000,000 | 45,000,000 | 75,000,000 | 150,000,000 |
| Total C                 | Dpex Require                                                                                                    | d:                   | 2,598,900  | 4,703,300  | 36,265,700 | 52,828,100 | 84,390,500 | 180,786,500 |
| Total Opex              | Required (in                                                                                                    | MRs.)                | 3          | 5          | 36         | 53         | 84         | 181         |

Operational Expenditure Year Wise (In Rs.

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## AUTOMATED METERING INFRASTRUCTURE

#### MEPCO 05-YEARS FUTURE PLAN FOR INSTALLATION OF AMI METERS

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05-Years Implementation Plan

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|              | Total 3 | -phase cons<br>MEPCO | iumer (n | Total | AMI meters<br>MEPCO | ; installed in<br>O | No. of N<br>all M | on AMI 3Pha<br>EPCO to be sh | se consumers in:<br>lifted to AMI |       |        | Y 2020-20                              | 21                                        |                            |       |        | FY 2021-                                        | 2022                                         |                         |       |        | FY 2022-7                              | 2023                                         |                            |       | FY 2023-2024 |                                                 |                                              |                                                                                             | FY 2024-2025            | Total Amount        |
|--------------|---------|----------------------|----------|-------|---------------------|---------------------|-------------------|------------------------------|-----------------------------------|-------|--------|----------------------------------------|-------------------------------------------|----------------------------|-------|--------|-------------------------------------------------|----------------------------------------------|-------------------------|-------|--------|----------------------------------------|----------------------------------------------|----------------------------|-------|--------------|-------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------|---------------------|
| Tariff       | вт/нт   | ŵc                   | Total    | цт/нт | wc                  | Total               | LT/HT             | ŴĊ                           | Total                             | цт∕нт | wc     | Appx.<br>Per<br>Rate<br>LT/HT<br>(PKR) | Appx,<br>Per<br>meter<br>Rate WC<br>(PKR) | Amount<br>(iń Mill<br>PKR) | LT/HT | ŴĠ     | Appx.<br>Per<br>meter<br>Rate<br>LT/HT<br>(PKR) | Appx.<br>Per<br>meter<br>Rate<br>WC<br>(PKR) | Amount<br>(In Mill PKR) | ст/Нт | wc     | Appx.<br>Per<br>Rate<br>LT/HT<br>(PKR) | Appx.<br>Per<br>Meter<br>Rate<br>WC<br>(PKR) | Amount<br>(In Mill<br>PKR) | LT/HT | wc           | Appx.<br>Per<br>meter<br>Rate<br>LT/HT<br>(PKR) | Appx.<br>Per<br>meter<br>Rate<br>WC<br>(PKR) | Amount<br>(in Mill<br>PKR)                                                                  | Amount<br>(In Mill PKR) | (In million<br>PKR) |
| Agricultural | 140     | 85169                | 85309    | 52    | 26660               | 26712               | 88                | 58,509                       | 58,597                            | 3     | 27034  | 9,950                                  | 8,995                                     | 224.88                     | 85    | 31,475 | 9,990                                           | 8,995                                        | 283.97                  | -     | -      | -                                      | -                                            | -                          |       | -            | -                                               |                                              | -                                                                                           | _                       | 508.84              |
| Commercial   | 2505    | 20264                | 22769    | 1679  | 966                 | 2645                | 826               | 19,298                       | 26,124                            | 280   | 65     | 9,990                                  | -                                         | -                          | 546   | 19,233 | 9,990                                           | 8,995                                        | 178.46                  | -     |        | -                                      | -                                            | -                          | -     |              | -                                               |                                              | -                                                                                           |                         | 178.46              |
| Domestic     | 1691    | 96988                | 98679    | 1014  | 975                 | 1989                | 677               | 96,013                       | 96,690                            | 5     | 1      | 9,990                                  |                                           | -                          | 672   | 16,012 | 9,990                                           | 8,995                                        | 150.74                  | •     | 20,000 | 9,990                                  | 8,995                                        | 179.90                     | -     | 60,000       | -                                               | 8,995                                        | 539.70                                                                                      | -                       | 870.34              |
| Industrial   | 8146    | 37407                | 45553    | 6367  | 3065                | 9432                | 1,779             | 34,342                       | 36,121                            | 633   | 202    | -                                      | -                                         | -                          | -     | -      |                                                 | -                                            | -                       | 1,146 | 34,140 | 9,990                                  | 8,995                                        | 318.54                     | -     | -            | -                                               |                                              |                                                                                             | -                       | 318.54              |
| Others       | 302     | 997                  | 1299     | 206   | 55                  | 261                 | 96                | 942                          | 1,038                             | 8     | 52     | 9,990                                  | <br>                                      | -                          | 88    | 890    | 9,990                                           | 8,995                                        | 8.88                    | -     | -      | -                                      | -                                            | -                          | -     |              | -                                               |                                              | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | -                       | 8.88                |
| TOTAL        | 12,784  | 240,825              | 253,609  | 9,318 | 31,721              | 41,039              | 3,466             | 209,104                      | 212,570                           | 929   | 27,354 | -                                      | -                                         | 224.88                     | 1,391 | 67,610 |                                                 | -                                            | 622.05                  | 1,146 | 54,140 | -                                      | -                                            | 498.44                     | -     | 60,000       | -                                               | -                                            | 539.70                                                                                      | -                       | 1,885.06            |
| AMI Infra.   |         |                      |          |       |                     |                     |                   |                              |                                   |       |        |                                        | -                                         |                            |       |        |                                                 |                                              |                         |       |        |                                        |                                              | 200.00                     |       |              |                                                 |                                              |                                                                                             |                         | 200.00              |
| Grand Total  |         |                      |          |       |                     |                     | 3,466             | 209,104                      | 212,570                           | 929   | 27,354 |                                        |                                           | 224.88                     | 1,391 | 67,610 |                                                 |                                              | 622.05                  | 1,146 | 54,140 |                                        |                                              | 698.44                     |       | 60,000       |                                                 |                                              | 539.70                                                                                      |                         | 2.085.06            |

• Note:

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The plan is devised to transform AMI meters from top to bottom revenue bases customers.
 Price of LT / HT meters i.e. PKR 9990/- and WC meters i.e. PKR 8995/- are the lowest quouted prices taken from recent tender opened in PESCO in 09/2020
 USAID-SEP provided 2354 WC & S29 LT/HT meters during 2020-21

## MEPCO TECHNOLOGY ROAD MAP (DATA CENTRE)

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|                                                                                                                       |             | en ser a      | ι.<br>·       | IEPCO Techno  | logy Roadman  | - 5 years TC  | <b>0</b>        |               |               |               |               |                     |
|-----------------------------------------------------------------------------------------------------------------------|-------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|---------------|---------------|---------------|---------------------|
| Sr Filture Projects                                                                                                   | - (F. Y 205 | 10-251 -      | ж. тау 20     | 21-22         | F.Y 20        | 22-23         | Б. <b>У 2</b> 0 | 023-24        | F.Y-20        | 24725         | īoī           | 1                   |
| 1 Enterprise Asset Management ( Processor Based )                                                                     | * <u></u>   |               | \$ 1,000,000  | \$ 200,000    | \$ 220,000    | \$ 150,000    | \$ 220,000      | \$ 150,000    | \$ 220,000    | \$ -          | \$ 1,660,000  | \$ 500,000          |
| 2 Enterprise GIS                                                                                                      | j           |               |               |               | \$ 2,000,000  | \$ 600,000    | \$ 440,000      | \$ 400,000    | \$ 440,000    | \$ 300,000    | \$ 2,880,000  | \$ 1,300,000        |
| 3 Meter Data Management (C2M Advance Metering) 100k/year                                                              |             |               | \$ 1,800,000  | \$ 300,000    | \$ 2,196,000  | \$ 200,000    | \$ 2,283,120    | \$ 200,000    | \$ 502,286    | \$ -          | \$ 6,781,406  | \$ 700,000          |
| 4 Distribution Network Management (DNM)                                                                               |             |               |               |               | \$ 2,843,500  | \$ 300,000    | \$ 625,570      | \$ 200,000    | \$ 625,570    | \$ 200,000    | \$ 4,094,640  | \$ 700,000          |
| 5 Outage Management System (OMS)                                                                                      |             |               |               |               |               |               | \$ 900,000      | \$ 200,000    | \$ 198,000    | \$ 200,000    | \$ 1,098,000  | \$ 400,000          |
| 6 Mobile Work Force Management (MWFM)                                                                                 |             |               |               |               | \$ 500,000    | \$ 150,000    | \$ 110,000      | \$-           | \$ 110,000    | \$ -          | \$ 720,000    | \$ 150,000          |
| 7 Transformer Monitoring System (TMS) 70000 (Appx.)Total<br>Transformers @ USD 437.5 Per Device with Software License |             |               | \$ 6,125,000  | \$ 175,000    | \$ 6,125,000  | \$ 175,000    | \$ 6,125,000    | \$ 175,000    | \$ 6,125,000  | \$ 175,000    | \$ 24,500,000 | <b>\$</b> . 700,000 |
| 8 Enterprise Analytics                                                                                                |             |               | \$ 200,000    | \$ 62,500     | \$ 44,000     | \$ -          | \$ 44,000       | \$· -         | \$ 44,000     | \$ -          | \$ 332,000    | \$ 62,500           |
| 9 IT Hardware (Servers, Storage, Routers, Switches etc)                                                               |             | - <u></u><br> | \$ 187,500    | \$-           | \$ 56,250     | \$ -          | \$ 28,125       | \$ -          | ·             | \$ 18,750     | \$ 271,875    | \$ 18,750           |
| Total                                                                                                                 |             |               | \$ 9,312,500  | \$ 737,500    | \$ 13,984,750 | \$ 1,575,000  | \$ 10,775,815   | \$ 1,325,000  | \$ 8,264,856  | \$ 893,750    | \$ 42,337,921 | \$ 4,531,250        |
| YoY Prices                                                                                                            |             |               | \$            | 10,050,000    | \$            | 15,559,750    | \$              | 12,100,815    | \$            | 9,158,606     | \$            | 46,869,171          |
| Total Price in PKR                                                                                                    |             | -             | 1,490,000,000 | 118,000,000   | 2,237,560,000 | 252,000,000   | 1,724,130,400   | 212,000,000   | 1,322,377,024 | 143,000,000   | 6,774,067,424 | 725,000,000         |
| Total Price in PKR (Million)                                                                                          |             |               | 1,490         | 118           | 2,238         | 252           | 1,724           | 212           | 1,322         | 143           | 6,774         | 725                 |
| Total YoY Price in PKR                                                                                                | -           |               |               | 1,608,000,000 |               | 2,489,560,000 |                 | 1,936,130,400 |               | 1,465,377,024 |               | 7,499,067,424       |
| Total YoY Price in PKR (Million)                                                                                      |             | _             |               | 1,608         |               | 2,490         |                 | 1,936         |               | 1,465         |               | 7,499               |

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## **CUSTOMER SERVICES CENTRE**

<u>Scope and Cost</u> MEPCO Wide Expansion of Customers Service Centres (CSCs)

|           | 그는 것 같은 사람들은 것 같은 것 같은 것 같은 것 같은 것 같은 것 같은 것 같은 것                                                                                                     |     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 1         | Total CSCs established Ending 2019-20                                                                                                                 | 267 |
| 2         | Net number of CSCs to be revamped (subdivisions+Divs+Circles+Ros) FY 2021-<br>2025                                                                    | 267 |
| De        | tailed Scope of CSC                                                                                                                                   |     |
| 3         | Revamp (paint job) - maintenance - paint job of the the CSC rooms in numbers                                                                          | 267 |
| 4         | Provision of Furniture and Fixtures (Counter Table with 2xchairs, Six Visitors<br>Chairs, Branding Material and 1x1Ton Split AC) No of Units required | 267 |
| 5         | Desktop with UPS                                                                                                                                      | 267 |
| 6         | Printers                                                                                                                                              | 267 |
| 7         | Servers and other allied Equipment                                                                                                                    | 0   |
| 8         | Cell phonse costs for CSCs Office                                                                                                                     | 267 |
| 9         | Cell mobile charges for CSCs Office                                                                                                                   | 267 |
| 10        | CMS - Upgradation and furter Customization                                                                                                            | . 0 |
| · · · · · |                                                                                                                                                       |     |

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Capital Expenditure Year Wise (In Rs.)

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| -<br> | Description                                                 | units       | Cost/ Unit | FY 2020-21 | FY 2021-22 | FY 2022-23 | FY 2023-24 | FY 2024-25 | Total              |
|-------|-------------------------------------------------------------|-------------|------------|------------|------------|------------|------------|------------|--------------------|
|       |                                                             |             |            |            |            |            |            |            |                    |
| 1     | Revamp (Paint<br>job) of the the<br>CSC rooms in<br>numbers | 267         | 150,000    | 34,843,500 | -          | -          | -          | -          | 34,843,500         |
| 2     | Provision of<br>Furniture and<br>Fixtures Units<br>required | 267         | 108,000    | 25,087,320 | -          | -          | -          | -          | 25,087,32 <u>0</u> |
| 3     | Desktops with<br>UPS                                        | 267         | 75,000     | 17,421,750 | -          | -          | -          | -          | 17,421,750         |
| 4     | Printers                                                    | 267         | 35,000     | 8,130,150  | -          | -          |            | -          | 8,130,150          |
| 5     | Servers & other allied equip                                | -           | 2,000,000  | -          | -          | -          | -          | -          | -                  |
| 7     | Cell Phones                                                 | 267         | 5,000      | 1,161,450  | -          | -          | -          | -          | 1,161,450          |
| 8     | CMS upgrade                                                 | -           | -          | -          |            | ~          | -          | -          | -                  |
|       | Total Cap                                                   | ex Require  | d:         | 86,644,170 | -          | -          | -          | -          | 86,644,170         |
|       | Total Cpex Re                                               | quired: (in | MRs.)      | 87         | _          | -          | -          | -          | 87                 |

Operational Expenditure Year Wise (In Rs.)

|   | Description          | - units a | Annual<br>Opex/ Unit | FY 2020-21 | FY 2021-22 | FY 2022-23 | FY 2023-24 | FY 2024-25 | Total      |
|---|----------------------|-----------|----------------------|------------|------------|------------|------------|------------|------------|
|   | Opex                 |           |                      |            |            |            |            |            |            |
| 1 | Desktops with<br>UPS | 267       | 3,000                | 696,870    | 700,074    | 728,910    | 760,950    | 801,000    | 3,687,804  |
| 2 | Printers             | 267       | 36,000               | 8,362,440  | 8,400,888  | 8,746,920  | 9,131,400  | 9,612,000  | 44,253,648 |
| 3 | Cell Phones          | 267       | 12,000               | 2,787,480  | 2,800,296  | 2,915,640  | 3,043,800  | 3,204,000  | 14,751,216 |

| # | Description   | units        | Cost/Unit | FY 2020-21 | FY 2021-22 | FY 2022-23 | FY 2023-24 | FY 2024-25 | Total      |
|---|---------------|--------------|-----------|------------|------------|------------|------------|------------|------------|
|   |               |              |           |            |            |            |            | ·····      |            |
|   | Total Op      | ex Required  | d:        | 11,846,790 | 11,901,258 | 12,391,470 | 12,936,150 | 13,617,000 | 62,692,668 |
|   | Total Opex Re | equired: (in | MRs.)     | 12         | 12         | 12         | 13 -       | 14         | 63         |

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## **MONITORING & SURVEILLANCE**

### Scope and Cost MEPCO Wide Expansion of Survillance for Anti-theft

### SCOPE:

#### Scope - Survillance (Anti-theft-activity)

Scope
 Toyota Hilux one per division (Survillance Team already exist for AMRs theft control and other meters theft control)
 Toyota Hilux (Single Cabin with Hood) (Anti-theft Cell) under Commercial Dir.
 TOOL (Ladder, tool and plants, power analyzer, clip on meters) in Units
 Mobile Phones

#### COSTS:

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### Capital Expenditure Year Wise (In Rs.)

|   | CAPEX                          | 國的加     |      | <u>Cost/Unites</u> | FY 2020-24 | <b>5</b> 72024922 | <b></b>    | ▲ 172024-224 |              | an <b>T</b> om sin an |
|---|--------------------------------|---------|------|--------------------|------------|-------------------|------------|--------------|--------------|-----------------------|
| 1 | Toyota Hilux<br>for Divisions  |         | 37   | 2,200,000          | 22,000,000 | 17,500,000        | 15,400,000 | 13,200,000   | . 13,200,000 | 81,400,000            |
| 1 | Toyota Hilux<br>for Comm HQ    |         | 1    | 2,200,000          | 2,200,000  |                   |            |              |              | 2,200,000             |
| 2 | Tools                          | · _ · * | 38   | 60,000             | 660,000    | 480,000           | 420,000    | 360,000      | 360,000      | 2,280,000             |
| 3 | Phones                         |         | 38   | 20,000             | 220,000    | 160,000           | 140,000    | 120,000      | 120,000      | 760,000               |
|   | Total                          | l Capex | Requ | ired:              | 25,080,000 | 18,240,000        | 15,960,000 | 13,680,000   | 13,680,000   | 86,540,000            |
| - | Total Capex Required (in MRs.) |         |      |                    | 25         | 18                | 16         | 14           | 14           | 87                    |

### Operational Expenditure Year Wise (In Rs.)

37

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|   | Description                   | units     | Annual Opex/<br>Unit | FY 2020-24 | FY 2021-22 | FY 2022-23 | FY 2023-24 | FY 2024-25 | Total      |
|---|-------------------------------|-----------|----------------------|------------|------------|------------|------------|------------|------------|
|   | Орех                          |           |                      |            |            |            |            |            |            |
| 1 | Hilux POL and<br>Maint        | 38        | 360,000              | 3,600,000  | 6,480,000  | 9,000,000  | 11,160,000 | 13,320,000 | 43,560,000 |
| 2 | Mobile                        | 38        | 18,000               | 198,000    | 342,000    | 468,000    | 576,000    | 684,000    | 2,268,000  |
|   | Total O                       | pex Requi | red:                 | 3,798,000  | 6,822,000  | 9,468,000  | 11,736,000 | 14,004,000 | 45,828,000 |
|   | Total Opex Required (in MRs.) |           |                      | 4          | 7          | 9          | 12         | 14         | 46         |

## **ERP (SAP IMPLEMENTATION)**

### Multan Electric Power Company (MEPCO) Five Year Plan

## New Modules for ERP-SAP

|                                       | Estimated    | Estimated  |
|---------------------------------------|--------------|------------|
| Description                           | Cost (Rs. in | Completion |
|                                       | Million)     | Timeline   |
| SAP Penison Sytem                     | 25           | FY-2020-21 |
| SAP HCM Workflow                      | 35           | FY-2021-22 |
| SAP E-Tendering                       | -            | FY-2022-23 |
| SAP FICO Intergration with Oracel CIS | 10           | FY-2022-23 |
| SAP-Plant Maintenace/Project System   | 45           | FY-2023-24 |
| SAP Dash Board                        | 15           | FY-2024-25 |
| SAP Upgrade                           | 35           | FY-2024-25 |

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## HR DEVELOPMENT PLAN

## **TRAINING & DEVELOPMENT**

| FIVE | YEARS | BUSI                                                                                                            | NESS P | LAN T | RAINING | ·& I | DEVEL | <b>OPMENT</b> | OF | MEPCO | EMPL | OYEES |
|------|-------|-----------------------------------------------------------------------------------------------------------------|--------|-------|---------|------|-------|---------------|----|-------|------|-------|
|      |       | the second second second second second second second second second second second second second second second se |        |       |         |      |       |               |    |       |      |       |
|      |       |                                                                                                                 |        |       |         | _    |       |               |    |       |      |       |

| -       |           |                           | 2020                   | -2021                                   | 2                                     | 021-2022                             | 20                                    | 022-2023                             | 2023                                  | -2024                                   | 2024-2025                             |                                         |  |
|---------|-----------|---------------------------|------------------------|-----------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|-----------------------------------------|--|
|         | Categ     | gory                      | No. of<br>Participants | Financial<br>Implication<br>(Estimated) | No. of<br>Participants<br>(Projected) | Financial Implication<br>(Estimated) | No. of<br>Participants<br>(Projected) | Financial Implication<br>(Estimated) | No. of<br>Participants<br>(Projected) | Financial<br>Implication<br>(Estimated) | No. of<br>Participants<br>(Projected) | Financial<br>Implication<br>(Estimated) |  |
|         | icers     | BPS-18/19                 | 22                     | 13794000                                | 30                                    | 18810000                             | 35                                    | 21945000                             | 36                                    | 22572000                                | 38                                    | 23826000,                               |  |
|         | ЩО<br>Ц   | BPS-16/17                 | 40                     | 12986383                                | 50                                    | 16232978.72                          | 55                                    | 17856276.6                           | 58                                    | 18830255                                | 60                                    | 19479574.5 <sub>、</sub>                 |  |
|         | cials     | BPS-05<br>to 15<br>(RTC)  | 520                    | 32170840                                | 670                                   | 41450890                             | 700                                   | 43306900                             | 720                                   | 44544240                                | 725                                   | 44853575                                |  |
| O<br>To | OĦO       | BPS-05<br>to 15<br>(CTCs) | 1450                   | 20063650                                | 1680                                  | 23246160                             | 1700                                  | 23522900                             | 1750                                  | 24214750                                | 1770                                  | 24491490                                |  |
|         | tal       | 2032                      | 79014873               | 2430                                    | 99740028.72                           | 2490                                 | 106631076.6                           | 2564                                 | 110161245                             | 2593                                    | 112650639                             |                                         |  |
|         | Total (ir | ı MRs.)                   |                        | 79                                      |                                       | 100                                  |                                       | 107                                  | 1                                     | 10                                      | 1                                     | 13                                      |  |

## **IMPROVING EXISTING OFFICES**

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### **IMPROVING THE WORKING ENVIRONMENT OF EXCISING OFFICES**

### A: Scope and Cost.

CAPEX

| Improving Existing Offices            | Number of |         | F       | inancial Ye | ar      |         | <b>.</b> |  |  |  |
|---------------------------------------|-----------|---------|---------|-------------|---------|---------|----------|--|--|--|
| improving Existing Offices.           | Offices   | 2020-21 | 2021-22 | 2022-23     | 2023-24 | 2024-25 | Iotai    |  |  |  |
| R&M General Plants                    |           |         |         |             |         |         | · · ·    |  |  |  |
| (Purchase, Repair, Maintenance of     | 391       | 27.00   | 32.00   | 38.00       | 45.00   | 54.00   | 196.00   |  |  |  |
| office equipment)                     |           |         |         |             |         |         |          |  |  |  |
| Communication                         |           |         | · · ·   |             |         |         |          |  |  |  |
| (Landline, Mobile Phone, Internet and | -do-      | 79.00   | 86.00   | 94.00       | 104.00  | 114.00  | 477.00   |  |  |  |
| courier etc.)                         |           |         |         |             |         |         |          |  |  |  |
| Office Supplies                       | da        | 210.00  | 261.00  | 420.00      | E11.00  | 610.00  | 2222.00  |  |  |  |
| (Stationary & Consumable items)       | · -u0-    | 510.00  | 301.00  | 450.00      | 511.00  | 010.00  | 222 0    |  |  |  |
| Computer Services                     | do do     | 202.00  | 212.00  | 242.00      | 277.00  | A1E 00  | 1720.00  |  |  |  |
| (Computer, Printer, Copier etc.)      | ÷u0-      | 265.00  | 512.00  | 545.00      | 577.00  | 415.00  | 1/50.00  |  |  |  |
| Total (in MRs.)                       |           | 699     | 791     | 905         | 1037    | 1193    | 4625     |  |  |  |

C: Scope and Cost.

OPEX:

|                                                                                                                   |           |         |         |             |         | (In Million) |         |
|-------------------------------------------------------------------------------------------------------------------|-----------|---------|---------|-------------|---------|--------------|---------|
| Improving Existing Offices:                                                                                       | Number of |         | F       | inancial Ye | ar      |              | Total   |
| improving Existing Offices.                                                                                       | Offices   | 2020-21 | 2021-22 | 2022-23     | 2023-24 | 2024-25      | lotal   |
| Employees Benefit<br>(Medical, Free Supply, Sports,<br>Education, Marriage Grant, Award,<br>Funeral Charges etc.) | 390       | 1389.00 | 1401.00 | 1587.00     | 1791.00 | 2020.00      | 8183.00 |
| Total (in MRs.)                                                                                                   |           | 1389    | 1401    | 1587        | 1791    | 2020         | 81      |

## **IMPROVING TRANSPORTATION**

#### Improving the Transportation in MEPCO

#### A:Scope and Cost:

| Sec. 10.10-24                  |     |                |             |     |           |             |     |                                       |              |                |            |             |     |             |             |
|--------------------------------|-----|----------------|-------------|-----|-----------|-------------|-----|---------------------------------------|--------------|----------------|------------|-------------|-----|-------------|-------------|
|                                |     | 5, yg 18, 2021 | 0-20        |     | FY 202    | 1-22        |     |                                       | 223          |                | FY 2023    | 1.24        |     | FY/20       |             |
| Description of Items           | No. | Unit Cost      | Total       | No. | Unit Cost | Total       | No. | Unit Cost                             | Total        | No.            | Unit Cost  | Total       | No. | Unit Cost   | Total       |
| Bucket Mounted Vehicle         | 28  | 10,000,000     | 280,000,000 |     |           | -           |     |                                       | -            |                |            | · -         |     |             | -           |
| Crane                          |     |                | -           |     |           | -           |     |                                       | · . <u>-</u> |                |            |             | 15  | 12,000,000  | 180,000,000 |
| Fork Lifter                    |     |                | -           |     |           | -           |     |                                       | -            |                |            | · -         | 7   | 11,000,000  | 77,000,000  |
| Truck (13 Ton)                 | 1   | 12,000,000     | 12,000,000  |     |           | -           |     | · ·                                   | -            |                |            | -           |     |             | -           |
| Truck (03 Ton)                 |     |                | -           |     |           | -           | 30  | 6,000,000                             | 180,000,000  | 20             | 6,000,000  | 120,000,000 | 20  | 6,000,000   | 120,000,000 |
| Çoaster                        |     |                | -           |     |           |             |     |                                       | -            | 6              | 11,500,000 | 69,000,000  |     |             | -           |
| Single Cabin (4x4)             | 3   | 5,300,000      | 15,900,000  |     |           | -           |     | · · · · · · · · · · · · · · · · · · · | · · ·        |                |            |             | · . | · · · · · · | -           |
| Single Cabin (4x2)             |     |                |             | 50  | 4,600,000 | 230,000,000 | 22  | 4,600,000                             | 101,200,000  |                |            |             |     |             | -           |
| Van                            | 2   | 6,900,000      | 13,800,000  |     |           | -           |     |                                       | -            | 23             | 8,000,000  | 184,000,000 |     |             |             |
| Tractor Trolley (65-HP)        | 1   | 1,800,000      | 1,800,000   |     |           | -           |     |                                       |              |                |            |             | ·   |             | -           |
| Toyota Altis 1.6 Auto (1600cc) |     |                | •           |     |           | -           | 1   | 3,900,000                             | 3,900,000    |                |            |             |     |             | -           |
| Car (1600cc) MIRAD             | 1   | 3,300,000      | 3,300,000   |     |           |             |     |                                       | -            |                |            | -           |     |             | -           |
| Yaris GLI 1.3 Auto (1329cc)    |     |                |             |     |           | -           | 10  | 3,500,000                             | 35,000,000   |                |            | -           |     |             | -           |
| Yaris GLI 1.3 Manual (1329cc)  |     |                |             |     |           |             | 37  | 2,588,000                             | 95,756,000   |                |            | -           |     |             | -           |
| Car (1300cc) MIRAD             | 3   | 2,588,000      | 7,764,000   |     |           | -           | 126 | 3,112,000                             | 392,112,000  |                |            |             |     |             |             |
| Car (1000cc) MIRAD             | 6   | 1,795,000      | 10,770,000  | 204 | 2,154,000 | 439,416,000 |     |                                       | -            |                |            | -           |     |             |             |
| Total                          | 45  | •              | 345,334,000 | 254 |           | 669,416,000 | 226 | -                                     | 807,968,000  | 49             | -          | 373,000,000 | 42  | -           | 377,000,000 |
| Total (MRs.)                   |     |                | 345         |     |           | 669         |     |                                       | 808          | х <sup>с</sup> |            | 373         |     |             | 377         |

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| Description of Items           |     | in         | 0.21      |            | FY 202     | 1-22       |     |            | 000        |     | FY 202     | 8-24                                  | 105 | 5 FY 20    | 20.25       |
|--------------------------------|-----|------------|-----------|------------|------------|------------|-----|------------|------------|-----|------------|---------------------------------------|-----|------------|-------------|
|                                | No. | Budget Per | Total     | No.        | Budget Per | Total      | No. | Budget Per | Total      | No. | Budget Per | Total                                 | No. | Budget Per | Total       |
| Bucket Mounted Vehicle         | 28  | 150,000    | 4,200,000 | 28         | 300,000    | 8,400,000  | 28  | 350,000    | 9,800,000  | 28  | 400,000    | 11,200,000                            | 28  | 450,000    | 12,600,000  |
| Crane                          |     |            |           |            |            |            |     |            |            |     |            | · · · · · · · · · · · · · · · · · · · | 15  | 450,000    | 6,750,000   |
| Fork Lifter                    |     |            |           | n a s<br>T |            |            |     |            |            |     |            |                                       | 7   | 450,000    | 3,150,000   |
| Truck (13 Ton)                 | 1   | 150,000    | 150,000   | 1          | 250,000    | 250,000    | 1   | 300,000    | 300,000    | 1   | 350,000    | 350,000                               | 1   | 400,000    | 400,000     |
| Truck (03 Ton)                 |     |            |           |            |            |            | 30  | 200,000    | 6,000,000  | 50  | 250,000    | 1.2,500,000                           | 70  | 300,000    | 21,000,000  |
| Coaster                        |     |            |           |            |            |            |     | · .        |            | 6   | 100,000    | 600,000                               | 6   | 150,000    | 900,000     |
| Single Cabin (4x4)             | 3   | 100,000    | 300,000   | 3          | 200,000    | 600,000    | 3   | 230,000    | 690,000    | 3   | 260,000    | 780,000                               | 3   | 290,000    | 870,000     |
| Single Cabin (4x2)             |     |            |           | 50         | 200,000    | 10,000,000 | 72  | 230,000    | 16,560,000 | 72  | 260,000    | 18,720,000                            | 72  | 300,000    | 21,600,000  |
| Van                            | 2   | 90,000     | 180,000   | 2          | 180,000    | 360,000    | 2   | 200,000    | 400,000    | 25  | 220,000    | 5,500,000                             | 25  | 240,000    | 6,000.000   |
| Tractor Trolley (65-HP)        | 1   | 50,000     | 50,000    | 1          | 170,000    | 170,000    | 1   | 180,000    | 180,000    | 1   | 200,000    | 200,000                               | 1   | 220,000    | 220,000     |
| Toyota Altis 1.6 Auto (1600cc) |     |            |           |            |            |            | 1   | 300,000    | 300,000    | 1   | 350,000    | 350,000                               | 1   | 400,000    | 400,000     |
| Car (1600cc) MIRAD             | 1   | 125,000    | 125,000   | 1          | 280,000    | 280,000    | 1   | 300,000    | 300,000    | 1   | 350,000    | 350,000                               | 1   | 400,000    | 400,000     |
| Yaris GLI 1.3 Auto (1329cc)    |     |            |           |            |            |            | 10  | 200,000    | 2,000,000  | 10  | 250,000    | 2,500,000                             | 10  | 300,000    | 3,000,000   |
| Yaris GLI 1.3 Manual (1329cc)  |     |            |           |            |            |            | 37  | 150,000    | 5,550,000  | 37  | 200,000    | 7,400,000                             | 37  | 250,000    | 9,250,000   |
| Car (1300cc)                   | 3   | 125,000    | 375,000   | 3          | 170,000    | 510,000    | 129 | 200,000    | 25,800,000 | 129 | 230,000    | 29,670,000                            | 129 | 250,000    | 32,250,000  |
| Car (1000cc)                   | 6   | 100,000    | 600,000   | 210        | 120,000    | 25,200,000 | 210 | 140,000    | 29,400,000 | 210 | 170,000    | 35,700,000                            | 210 | 190,000    | 39,900,000  |
| Total                          | 45  | 890,000    | 5,980,000 | 299        | 1,870,000  | 45,770,000 | 525 | 2,980,000  | 97,280,000 | 574 | 3,590,000  | 125,820,000                           | 616 | 5,040,000  | 158,690,000 |
| Total (MRs.)                   |     |            | 6         |            |            | 46         |     |            | 97         |     | · · ·      | 126                                   |     |            |             |

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## FINANCIAL IMPLICATION OF

**STAFFING PLAN** 

### MULTAN ELECTRIC POWER COMPANY LTD., MULTAN

### FINANCIAL IMPLICATION ON RECRUITMENT PLAN OF MEPCO

|            |                                     |      |                               | F.Y 2020-2                                                          | 21                                                                 |                 | F.Y 2021-                                                           | 22                                                                 |                 | F.Y 2022-                                                           | 23                                                                 |                 | F.Y 2023                                                            | -24                                                                |                 | F.Y 2024                                                            | -25                                                                | ]  |
|------------|-------------------------------------|------|-------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|----|
| Sr.<br>No. | Nomenclature of the<br>Post         | BPS  | No. of<br>posts               | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>Per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year |    |
| 1          | DG / GM / CE (MIRAD)                | 20   | 1                             | 2,240,622                                                           | 2,240,622                                                          | -               | 2,240,622                                                           | •                                                                  |                 | 2,345,178                                                           | -                                                                  | -               | 2,502,012                                                           | -                                                                  |                 | 2,606,568                                                           | -                                                                  |    |
| 2          | Company Secretary                   | 19   |                               | 1,875,312                                                           |                                                                    | 1               | 1,875,312                                                           | 1,875,312                                                          | -               | 1,961,004                                                           | -                                                                  | -               | 2,089,542                                                           | -                                                                  | -               | 2,175,234                                                           | -                                                                  | -  |
| .3         | Director (Legal &<br>Labour)        | 19   | -                             | 1,875,312                                                           |                                                                    | 1               | 1,875,312                                                           | 1,875,312                                                          | -               | 1,961,004                                                           | · -                                                                | -               | 2,089,542                                                           | -                                                                  | -               | 2,175,234                                                           | -                                                                  | -  |
| 4          | Director (Legal /<br>Contract)      | 19   | 1                             | 1,875,312                                                           | 1,875,312                                                          | -               | 1,875,312                                                           | •                                                                  | -               | 1,961,004                                                           | -                                                                  | -               | 2,089,542                                                           | -                                                                  | -               | 2,175,234                                                           | -                                                                  |    |
| 5          | Manager (Internal<br>Audit)         | 19   | la la constante<br>Secondaria | 1,875,312                                                           | -                                                                  | 1               | 1,875,312                                                           | 1,875,312                                                          | -               | 1,961,004                                                           | -                                                                  | -               | 2,089,542                                                           | -                                                                  | -               | 2,175,234                                                           |                                                                    | 1  |
| 6          | Manager (Planning &<br>Forecasting) | 19   | 1                             | 1,875,312                                                           | 1,875,312                                                          | -               | 1,875,312                                                           | -                                                                  | -               | 1,961,004                                                           | -                                                                  |                 | 2,089,542                                                           | -                                                                  | -               | 2,175,234                                                           |                                                                    |    |
| - 7        | DM (ERP) MEPCO.H.Qs                 | 18   |                               | 1,339,308                                                           | · · -                                                              | 1               | 1,339,308                                                           | 1,339,308                                                          | -               | 1,399,104                                                           | -                                                                  | -               | 1,488,798                                                           |                                                                    | -               | 1,548,594                                                           | -                                                                  | 部約 |
| 8          | DM (CPC Tariff)                     | 18   |                               | 1,339,308                                                           | - · · .                                                            | 1               | 1,339,308                                                           | 1,339,308                                                          | -               | 1,399,104                                                           | -                                                                  | -               | 1,488,798                                                           | -                                                                  | -               | 1,548,594                                                           |                                                                    |    |
| • 9        | DM (Taxation &<br>Banking)          | 18   | -                             | 1,339,308                                                           | •                                                                  | 1               | 1,339,308                                                           | 1,339,308                                                          | -               | 1,399,104                                                           | -                                                                  | -               | 1,488,798                                                           | -                                                                  | -               | 1,548,594                                                           |                                                                    | N. |
| 10         | DM (Legal / Contract)               | 18   | 1                             | 1,339,308                                                           | 1,339,308                                                          | -               | 1,339,308                                                           | -                                                                  | -               | 1,399,104                                                           | -                                                                  | -               | 1,488,798                                                           | -                                                                  | -               | 1,543,594                                                           | -                                                                  | -  |
| 11         | DM (Finance)                        | 18   | 1                             | 1,339,308                                                           | 1,339,308                                                          | -               | 1,339,308                                                           | -                                                                  | -               | 1,399,104                                                           | -                                                                  | -               | 1,488,798                                                           | ~                                                                  |                 | 1,548,594                                                           | -                                                                  |    |
| 12         | DM (Demand<br>Forecasting)          | 1.8  | 1                             | 1,339,308                                                           | 1,339,308                                                          | -               | 1,339,308                                                           | -                                                                  | -               | 1,399,104                                                           | -                                                                  | -               | 1,488,798                                                           |                                                                    | -               | 1,548,594                                                           |                                                                    |    |
| 13         | AM (Transmission<br>Planning)       | 17   | 1                             | 1,089,462                                                           | 1,089,462                                                          | -               | 1,089,462                                                           | · _                                                                |                 | 1,136,946                                                           |                                                                    | -               | 1,208,172                                                           |                                                                    | · -             | 1,255,656                                                           | <u> </u>                                                           |    |
| 14         | AM (Legal)                          | 17   | -                             | 1,089,462                                                           | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | •-                                                                 | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           |                                                                    |    |
| 15         | Jr. Engineers/ SDOs                 | . 17 | 3                             | 1,089,462                                                           | 3,268,386                                                          | 60              | 1,089,462                                                           | 65,367,720                                                         | 22              | 1,136,946                                                           | 25,012,812                                                         | 20              | 1,208,172                                                           | 24,163,440                                                         | 2.0             | 1,255,656                                                           | 25,113,120                                                         | 1  |
| 16         | A.M (CS) / RO                       | 17   | -                             | 1,089,462                                                           | -                                                                  | 5               | 1,089,462                                                           | 5,447,310                                                          | 4               | 1,136,946                                                           | 4,547,784                                                          | 4               | 1,208,172                                                           | 4,832,688                                                          | 4               | 1,255,656                                                           | 5,022,624                                                          |    |
| 17         | A.M (HRM / Admn)                    | 17   | 1                             | 1,089,462                                                           | 1,089,462                                                          | 5               | 1,089,462                                                           | 5,447,310                                                          | 5               | 1,136,946                                                           | 5,684,730                                                          | 4               | 1,208,172                                                           | 4,832,688                                                          | 3               | 1,255,656                                                           | 3,766,968                                                          | 1  |
| 18         | A.M (MM) / FSM                      | 17   | -                             | 1,089,462                                                           | -                                                                  | 4               | 1,089,462                                                           | 4,357,848                                                          | 3               | 1,136,946                                                           | 3,410,838                                                          | 3               | 1,208,172                                                           | 3,624,516                                                          | 3               | 1,255,656                                                           | 3,766,968                                                          | 1  |

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|            |                                         | F.Y 2020-21 |                 |                                                                     | 21                                                                 | F.Y 2021-22     |                                                                     |                                                                    | F.Y 2022-23     |                                                                     |                                                                    |                 | F.Y 2023                                                            | -2'4                                                               | F.Y 2024-25     |                                                                     |                                                                    |
|------------|-----------------------------------------|-------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
| Sr.<br>No. | Nomenclature of the<br>Post             | BPS         | No. of<br>posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>Per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Suppiy)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year |
| 19         | A.M (P/SA)                              | 17          | -               | 1,089,462                                                           |                                                                    | 2               | 1,089,462                                                           | 2,178,924                                                          | 2               | 1,136,946                                                           | 2,273,892                                                          | 2               | 1,208,172                                                           | 2,416,344                                                          | . 1             | 1,255,656                                                           | 1,255,656                                                          |
| 20         | A.M (Computer)                          | 17          | -               | 1,089,462                                                           | -                                                                  | 2               | 1,089,462                                                           | 2,178,924                                                          | 2               | 1,136,946                                                           | 2,273,892                                                          | 2               | 1,208,172                                                           | 2,416,344                                                          | 1               | 1,255,656                                                           | 1,255,656                                                          |
| 21         | A.M (Transport/<br>Mechnical)           | . 17        | -               | 1,089,462                                                           | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |
| 22         | A.M (CISA)                              | 17          | -               | 1,089,462                                                           | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |
| 23         | AM (Finance)                            | 17          | 2               | 1,089,462                                                           | 2,178,924                                                          | -               | 1,089,462                                                           | -                                                                  | -               | 1,136,946                                                           | · -                                                                | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |
| 24         | A.M (Corporate<br>Accounts)             | 17          | -               | 1,089,462                                                           | -                                                                  | 3               | 1,089,462                                                           | 3,268,386                                                          | 2               | 1,136,946                                                           | 2,273,892                                                          | 2               | 1,208,172                                                           | 2,416,344                                                          | 2               | 1,255,656                                                           | 2,511,312                                                          |
| 25         | A.M (Demand<br>Forecasting)             | 17          | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,089,462                                                           | -                                                                  | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |
| 26         | A.M (Civil)                             | 17          | -               | 1,089,462                                                           | -                                                                  | 2               | 1,089,462                                                           | 2,178,924                                                          | 1               | 1,136,946                                                           | 1,136,946                                                          | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |
| 27         | Assistant GIS Specialist                | 17          |                 | 1,089,462                                                           | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |
| 28         | A.M (Data Base &<br>Networks)           | 17          | -               | 1,089,462                                                           | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | · -                                                                | -               | 1,255,656                                                           | -                                                                  |
| 29         | A.M (MDC & MDM)                         | 17          | -               | <sup>.</sup> 1,089,462                                              | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           |                                                                    | -               | 1,255,656                                                           | -                                                                  |
| 30         | A.M (Field Operations /<br>CIS Support) | 17          | -               | 1,089,462                                                           | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |
| 31         | А.М (SAP) НСМ                           | 17          |                 | 1,089,462                                                           | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |
| 32         | A.M (SAP) FICO                          | 17          | -               | 1,089,462                                                           | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |
| 33         | A.M (SAP) MM                            | 17          | -               | 1,089,462                                                           |                                                                    | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |
| 34         | A.M (Microsoft<br>Administrator)        | 17          | -               | 1,089,462                                                           |                                                                    | 1               | 1,089,462                                                           | 1,089,462                                                          |                 | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |
| 35         | A.M (VM Administrator)                  | 17          |                 | 1,089,462                                                           | =                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |
| 36         | A.M (Linux<br>Administrator)            | 17          | -               | 1,089,462                                                           | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           |                                                                    | -               | 1,255,656                                                           | -                                                                  |
| 37         | A.M (Network<br>Administrator)          | 17          | -               | 1,089,462                                                           |                                                                    | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  |                 | 1,255,656                                                           | -                                                                  |
| · 38       | A.M (Network<br>Administrator (Core)    | 17          | -               | 1,089,462                                                           | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          |                 | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  |                 | 1,255,656                                                           | -                                                                  |

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|            |                                | F.Y 2020-21 |                 |                                                                     | 21                                                                 | F.Y 2021-22     |                                                                     |                                                                    | F.Y 2022-23     |                                                                     |                                                                    | F.Y 2023-24     |                                                                     |                                                                    |                 | F.Y 2024-25                                                         |                                                                    |  |
|------------|--------------------------------|-------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|--|
| Sr.<br>No. | Nomenclature of the<br>Post    | BPS         | No. of<br>posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>Per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year |  |
| 39         | A.M (Chemcial) under<br>TRW    | 17          | -               | 1,089,462                                                           | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |  |
| 40         | A.M (Social Impact)            | 17          | -               | 1,089,462                                                           | _                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          |                 | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |  |
| 41         | A.M (Environment)              | 17          | -               | 1,089,462                                                           | -                                                                  | 1               | 1,089,462                                                           | 1,089,462                                                          | -               | 1,136,946                                                           | -                                                                  | -               | 1,208,172                                                           | -                                                                  | -               | 1,255,656                                                           | -                                                                  |  |
| 42         | Steno Grade-I/Steno-I/<br>APS  | 16          | -               | 534,612                                                             | -                                                                  | 3               | 534,612                                                             | 1,603,836                                                          | 3               | 557,304                                                             | 1,671, <u>9</u> 12                                                 | 3               | 591,342                                                             | 1,774,026                                                          | 3               | 614,034                                                             | 1,842,102                                                          |  |
| 43         | IT Technician (System)         | 15          | -               | 447,438                                                             | -                                                                  | 1               | 447,438                                                             | 447,438                                                            | -               | 466,782                                                             | -                                                                  | -               | 495,798                                                             | -                                                                  | -               | 515,142                                                             | -                                                                  |  |
| 44         | IT Technician<br>(Networks)    | 15          | -               | 447,438                                                             | -                                                                  | 1               | 447,438                                                             | 447,438                                                            | -               | 466,782                                                             | -                                                                  | -               | 495,798                                                             | -                                                                  | -               | 515,142                                                             | -                                                                  |  |
| 45         | ERP Users                      | 15          | -               | 447,438                                                             | -                                                                  | 17              | 447,438                                                             | 7,606,446                                                          | -               | 466,782                                                             | -                                                                  | -               | 495,798                                                             | •                                                                  | • -             | 515,142                                                             |                                                                    |  |
| 46         | Data Coder                     | 15          | -               | 447,438                                                             | -                                                                  | 20              | 447,438                                                             | 8,948,760                                                          | 15              | 466,782                                                             | 7,001,730                                                          | 12              | 495,798                                                             | 5,949,576                                                          | 10              | 515,142                                                             | 5,151,420                                                          |  |
| 47         | Data Entry<br>Operator/DEO     | 15          | -               | 447,438                                                             | -<br>                                                              | 20              | 447,438                                                             | 8,948,760                                                          | 15              | 466,782                                                             | 7,001,730                                                          | 15              | 495,798                                                             | 7,436,970                                                          | 13              | 515,142                                                             | 6,696,846                                                          |  |
| 48         | Office Assistant/Head<br>Clerk | 15          | 5               | 447,438                                                             | 2,237,190                                                          | 5               | 447,438                                                             | 2,237,190                                                          | 5               | 466,782                                                             | 2,333,910                                                          | 5               | 495,798                                                             | 2,478,990                                                          | 5               | 515,142                                                             | 2,575,710                                                          |  |
| 49         | Audit Assistant                | 15          | 3               | 447,438                                                             | 1,342,314                                                          | 10              | 447,438                                                             | 4,474,380                                                          | 10              | 466,782                                                             | 4,667,820                                                          | 10              | 495,798                                                             | 4,957,980                                                          | 9               | 515,142                                                             | 4,636,278                                                          |  |
| 50         | Accounts Assistant             | 15          | 5               | 447,438                                                             | 2,237,190                                                          | 10              | 447,438                                                             | 4,474,380                                                          | 7               | 466,782                                                             | 3,267,474                                                          | 5               | 495,798                                                             | - 2,478,990                                                        | 5               | 515,142                                                             | 2,575,710                                                          |  |
| 51         | Commercial Assistant<br>(C/A)  | 15          | 5               | 447,438                                                             | 2,237,190                                                          | 15              | 447,438                                                             | 6,711,570                                                          | 15              | 466,782                                                             | 7,001,730                                                          | 8               | 495,798                                                             | 3,966,384                                                          | 8               | 515,142                                                             | 4,121,136                                                          |  |
| 52         | LS-I (Line Supptt-I)           | 15          | . 8             | 447,438                                                             | 3,579,504                                                          | 8               | 447,438                                                             | 3,579,504                                                          | 5               | 466,782                                                             | 2,333,910                                                          | 5               | 495,798                                                             | 2,478,990                                                          | 2               | 515,142                                                             | 1,030,284                                                          |  |
| 53         | SSO-1                          | 15          | -<br>-          | 447,438                                                             |                                                                    | 25              | 447,438                                                             | 11,185,950                                                         | 25              | 466,782                                                             | 11,669,550                                                         | 20              | 495,798                                                             | 9,915,960                                                          | 20              | 515,142                                                             | 10,302,840                                                         |  |
| 54         | Test Inspector (GSO/<br>P&I)   | 15          | -               | 447,438                                                             |                                                                    | 2               | 447,438                                                             | 894,876                                                            | 2               | 466,782                                                             | 933,564                                                            | 1               | 495,798                                                             | 495,798                                                            | 1               | 515,142                                                             | 515,142                                                            |  |
| 55         | Sr. Store Keeper               | 15          | -               | 447,438                                                             |                                                                    | 2               | 447,438                                                             | 894,876                                                            | 2               | 466,782                                                             | 933,564                                                            | 2               | 495,798                                                             | 991,596                                                            | 2               | 515,142                                                             | 1,030,284                                                          |  |
| 56         | Foreman                        | 15          | - 11:1          | 447,438                                                             | -                                                                  | 5               | 447,438                                                             | 2,237,190                                                          | 3               | 466,782                                                             | 1,400,346                                                          | 3               | 495,798                                                             | 1,487,394                                                          | 3               | 515,142                                                             | 1,545,426                                                          |  |
| . 57       | Security Inspector             | 15          |                 | 447,438                                                             | -                                                                  | 2               | 447,438                                                             | 894,876                                                            | 1               | 466,782                                                             | 466,782                                                            | -               | 495,798                                                             | -                                                                  | 2               | 515,142                                                             | 1,030,284                                                          |  |
| 58         | Steno Grade-II                 | 14          |                 | 424,056                                                             |                                                                    | 4               | 424,056                                                             | 1,696,224                                                          | 3               | 442,272                                                             | 1,326,816                                                          | 3               | 469,596                                                             | 1,408,788                                                          | 3               | 487,812                                                             | 1,463,436                                                          |  |

|            |                                 |     |                 | F.Y 2020-2                                                          | 21                                                                 |                 | F.Y 2021-                                                           | 22                                                                 |                 | F.Y 2022-                                                           | 23                                                                 |                 | F.Y 2023                                                            | -24                                                                | F.Y 2024-25     |                                                                     |                                                                    |
|------------|---------------------------------|-----|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
| Sr.<br>No. | Nomenclature of the<br>Post     | BPS | No. of<br>posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>Per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per.Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year |
| 59         | Asstt. Foreman                  | 14  | -               | 424,056                                                             | -                                                                  | 25              | 424,056                                                             | 10,601,400                                                         | 20              | 442,272                                                             | 8,845,440                                                          | 15              | 469,596                                                             | 7,043,940                                                          | 10              | 487,812                                                             | 4,878,120                                                          |
| 60         | Jr. Store Keeper                | 14  | -               | 424,056                                                             | -                                                                  | 10              | 424,056                                                             | 4,240,560                                                          | 5               | 442,272                                                             | 2,211,360                                                          | 5               | 469,596                                                             | 2,347,980                                                          | 2               | 487,812                                                             | 975,624                                                            |
| 61         | Lab Assistant/Test<br>Assistant | 14  | -<br>-          | 424,056                                                             | -                                                                  | 10              | 424,056                                                             | 4,240,560                                                          | 6               | 442,272                                                             | 2,653,632                                                          | 5               | 469,596                                                             | 2,347,980                                                          | 5               | 487,812                                                             | 2,439,060                                                          |
| 62         | LS-II (Line Supptt-II)          | 14  | 8               | 424,056                                                             | 3,392,448                                                          | 30              | 424,056                                                             | 12,721,680                                                         | 30              | 442,272                                                             | 13,268,160                                                         | 30              | 469,596                                                             | 14,087,880                                                         | 30              | 487,812                                                             | 14,634,360                                                         |
| 63         | SSO-II                          | 14  | 8               | 424,056                                                             | 3,392,448                                                          | 5               | 424,056                                                             | 2,120,280                                                          | 5               | 442,272                                                             | 2,211,360                                                          | 5               | 469,596                                                             | 2,347,980                                                          | 5               | 487,812                                                             | 2,439,060                                                          |
| 64         | Sub Engineer Civil              | 14  | 3               | 424,056                                                             | 1,272,168                                                          | 1               | 424,056                                                             | 424,056                                                            | -               | 442,272                                                             | -                                                                  | -               | 469,596                                                             | -                                                                  | -               | 487,812                                                             | -                                                                  |
| 65         | Asstt. Draftsman                | 13  | ·               | 401,964                                                             | -                                                                  | 15              | 401,964                                                             | 6,029,460                                                          | 10              | 419,076                                                             | 4,190,760                                                          | 10              | 444,744                                                             | 4,447,440                                                          | 8               | 461,856                                                             | 3,694,848                                                          |
| 66         | lmam Masjid                     | 12  |                 | 379,752                                                             | · _                                                                | 1               | 379,752                                                             | 379,752                                                            | -               | 395,736                                                             | -                                                                  | -               | 419,712                                                             |                                                                    | -               | 435,696                                                             | -                                                                  |
| 67         | Graphic Designer                | 11  | 1               | 362,022                                                             | -                                                                  | 1               | 362,022                                                             | 362,022                                                            | -               | 377,106                                                             | -                                                                  | -               | 399,732                                                             | -                                                                  | -               | 414,816                                                             | -                                                                  |
| 68         | Cable Jointer                   | 11  |                 | 362,022                                                             | • • • •                                                            | 3               | 362,022                                                             | 1,086,066                                                          | -               | 377,106                                                             | -                                                                  | -               | 399,732                                                             | -                                                                  | -               | 414,816                                                             | -                                                                  |
| 69         | Care Taker                      | 11  | -               | 362,022                                                             | -                                                                  | 3               | 362,022                                                             | 1,086,066                                                          | -               | 377,106                                                             | -                                                                  | -               | 399,732                                                             | -                                                                  | -               | 414,816                                                             | -                                                                  |
| 70         | MS-I                            | 11  | -               | 362,022                                                             |                                                                    | 7               | 362,022                                                             | 2,534,154                                                          | 7               | 377,106                                                             | 2,639,742                                                          | 7               | 399,732                                                             | 2,798,124                                                          | 7               | 414,816                                                             | 2,903,712                                                          |
| 71         | Relay Machine                   | 11  | -               | 362,022                                                             |                                                                    | 1               | 362,022                                                             | 362,022                                                            | -               | 377,106                                                             | -                                                                  | -               | 399,732                                                             | -                                                                  | -               | 414,816                                                             | -                                                                  |
| 72         | Asstt. Digitizer                | 11  | · · · -         | 362,022                                                             |                                                                    | -               | 362,022                                                             | -                                                                  |                 | 377,106                                                             | -                                                                  | 3               | 399,732                                                             | . 1,199,196                                                        | 2               | 414,316                                                             | 829,632                                                            |
| 73         | Jr. Clerk/LDC                   | 9   | 15              | 325,680                                                             | 4,885,200                                                          | 100             | 325,680                                                             | 32,568,000                                                         | 80              | 339,804 -                                                           | 27,184,320                                                         | 70              | 360,990                                                             | 25,269,300                                                         | 80              | 375,114                                                             | 30,009,120                                                         |
| . 74       | Meter Reader                    | 9   | 4               | 325,680                                                             | 1,302,720                                                          | 120             | 325,680                                                             | 39,081,600                                                         | 100             | 339,804                                                             | 33,980,400                                                         | 100             | 360,990                                                             | 36,099,000                                                         | 100             | 375,114                                                             | 37,511,400                                                         |
| .75        | Fitter-1                        | 9   |                 | 325,680                                                             |                                                                    | 10              | 325,680                                                             | 3,256,800                                                          | 10              | 339,804                                                             | 3,398,040                                                          | 10              | 360,990                                                             | 3,609,900                                                          | 5               | 375,114                                                             | 1,875,570                                                          |
| 76         | Telephone Technician            | 9   |                 | 325,680                                                             |                                                                    | 1               | 325,680                                                             | 325,680                                                            |                 | 339,804                                                             | -                                                                  |                 | 360,990                                                             |                                                                    |                 | 375,114                                                             | -                                                                  |
| 77         | S.S.Ą                           | 8   |                 | 315,882                                                             |                                                                    | 30              | 315,882                                                             | 9,476,460                                                          | 20              | 329,538                                                             | 6,590,760                                                          | 10              | 350,022                                                             | 3,500,220                                                          | 10              | 363,678                                                             | 3,636,780                                                          |
| 78         | Driver (LTV)                    | 8   |                 | 315,882                                                             |                                                                    | 80              | 315,882                                                             | 25,270,560                                                         | 60              | 329,538                                                             | 19,772,280                                                         | 60              | 350,022                                                             | 21,001,320                                                         | 60              | 363,678                                                             | 21,820,680                                                         |

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|------------|------------------------------|-----|-----------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------|--|
| Sr.<br>No. | Nomenclature of the<br>Post  | BPS | No. of<br>posts | F.Y 2020-<br>Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>Per Annum | 21<br>Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No, of<br>Posts | F.Y 2021-<br>Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | 22<br>Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts    | F.Y 2022-<br>Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | 23<br>Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | F.Y 2023<br>Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | 24<br>Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | F.Y 2024<br>Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | -25<br>Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year |  |
| • 79       | Security Sargent             | 8   |                 | 315,882                                                                          |                                                                          | . 2             | 315,882                                                                          | 631,764                                                                  | -                  | 329,538                                                                          |                                                                          | -               | 350,022                                                                         | -                                                                        | 1               | 363,678                                                                         | 363,678                                                                   |  |
| 80         | Surveyor                     | 7   |                 | 306,264                                                                          |                                                                          | *3              | 306,264                                                                          | 918,792                                                                  | 3                  | 319,452                                                                          | 958,356                                                                  | 3               | 339,234                                                                         | 1,017,702                                                                | 3               | 352,422                                                                         | 1,057,266                                                                 |  |
| 81         | Assistant Lineman<br>(ALM)   | 7   | 840             | 306,264                                                                          | 257,261,760                                                              | 300             | 306,264                                                                          | 91,879,200                                                               | 300                | 319,452                                                                          | 95,835,600                                                               | 200             | 339,234                                                                         | 67,846,800                                                               | 100             | 352,422                                                                         | 35,242,200                                                                |  |
| 82         | Welder                       | 7   |                 | 306,264                                                                          |                                                                          | . 3             | 306,264                                                                          | 918,792                                                                  | 3                  | 319,452                                                                          | 958,356                                                                  | 2               | 339,234                                                                         | 678,468                                                                  | 2               | 352,422                                                                         | 704,844                                                                   |  |
| 83         | Fitter-II                    | 7   | -               | 306,264                                                                          |                                                                          | 10              | 306,264                                                                          | 3,062,640                                                                | 10                 | 319,452                                                                          | 3,194,520                                                                | . 5             | 339,234                                                                         | 1,696,170                                                                | 5               | 352,422                                                                         | 1,762,110                                                                 |  |
| 84         | Helper                       | 7   | -               | 306,264                                                                          |                                                                          | 45              | 306,264                                                                          | 13,781,880                                                               | 45                 | 319,452                                                                          | 14,375,340                                                               | 45              | 339,234                                                                         | 15,265,530                                                               | 45              | 352,422                                                                         | 15,858,990                                                                |  |
| 85         | Tracer                       | 7   | -               | 306,264                                                                          | _                                                                        | 10              | 306,264                                                                          | 3,062,640                                                                | 10                 | 319,452                                                                          | 3,194,520                                                                | 10              | 339,234                                                                         | 3,392,340                                                                | 10              | 352,422                                                                         | 3,524,220                                                                 |  |
| 86         | Carpenter                    | 7   |                 | 306,264                                                                          |                                                                          | 2               | 306,264                                                                          | 612,528                                                                  |                    | 319,452                                                                          | -                                                                        | · -             | 339,234                                                                         | -                                                                        | -               | 352,422                                                                         | -                                                                         |  |
| 87         | A.S.S.A                      | 6   | 4               | 297,468                                                                          | 1,189,872                                                                | 50              | 297,468                                                                          | 14,873,400                                                               | 50                 | 310,212                                                                          | 15,510,600                                                               | 50              | 329,328                                                                         | 16,466,400                                                               | 50              | 342,072                                                                         | 17,103,600                                                                |  |
| 88         | Security Guard<br>*          | 6   |                 | 297,468                                                                          |                                                                          | 800             | 297,468                                                                          | 237,974,400                                                              | 300                | 310,212                                                                          | 93,063,600                                                               | 129             | 329,328                                                                         | 42,483,312                                                               | 100             | 342,072                                                                         | <sub>ج،</sub> 34,207,200                                                  |  |
| 89         | Electrician-II               | 5   |                 | 288,762                                                                          |                                                                          | 5               | 288,762                                                                          | 1,443,810                                                                | 3                  | 301,074                                                                          | 903,222                                                                  | 3               | 319,542                                                                         | 958,626                                                                  | 3               | 331,854                                                                         | 995,567                                                                   |  |
| 90         | Tyre Shop Operator           | 5   | -               | 288,762                                                                          |                                                                          | 2               | 288,762                                                                          | 577,524                                                                  | -                  | 301,074                                                                          | -                                                                        | -               | 319,542                                                                         | -                                                                        | -               | 331,854                                                                         | · _                                                                       |  |
| 91         | Moazzan - Khadim -<br>Masjid | 5   |                 | 288,762                                                                          |                                                                          | 1               | 288,762                                                                          | 288,762                                                                  |                    | 301,074                                                                          |                                                                          | -               | 319,542                                                                         | -                                                                        |                 | 331,854                                                                         | -                                                                         |  |
| 92         | Receptionist                 | 5   | -               | 288,762                                                                          |                                                                          | 1               | 288,762                                                                          | 288,762                                                                  | 1                  | 301,074                                                                          | 301,074                                                                  | 1               | . 319,542                                                                       | 319,542                                                                  | 1               | 331,854                                                                         | 331,854                                                                   |  |
| 93         | Trainer                      | 5   |                 | 288,762                                                                          |                                                                          | •               | 288,762                                                                          | -                                                                        | -                  | 301,074                                                                          | -                                                                        | 2               | 319,542                                                                         | 639,084                                                                  | -               | 331,854                                                                         | -                                                                         |  |
| 94         | Auto Electrician             | 5   |                 | 288,762                                                                          |                                                                          | 2               | 288,762                                                                          | 577,524                                                                  | -                  | 301,074                                                                          | -                                                                        | -               | 319,542                                                                         | -                                                                        | -               | 331,854                                                                         |                                                                           |  |
| 95         | Plumber                      | 5   | •               | 288,762                                                                          | -                                                                        | 2               | 288,762                                                                          | 577,524                                                                  | -                  | 301,074                                                                          | -                                                                        | -               | 319,542                                                                         | -                                                                        | -               | 331,854                                                                         | -                                                                         |  |
| 96         | Tube well operator           | 5   | -               | 288,762                                                                          |                                                                          | 6               | 288,762                                                                          | 1,732,572                                                                | 5                  | 301,074                                                                          | 1,505,370                                                                | 4               | 319,542                                                                         | 1,278,168                                                                | 4               | 331,854                                                                         | 1,327,416                                                                 |  |
| 97         | Work Mistery                 | 5   | -               | 288,762                                                                          |                                                                          | 1               | 288,762                                                                          | 288,762                                                                  | -                  | 301,074                                                                          | -                                                                        | -               | 319,542                                                                         | -                                                                        | -               | 331,854                                                                         | -                                                                         |  |
| 98         | Machine Attendant            | 5   | -               | 288,762                                                                          |                                                                          | 2               | 288,762                                                                          | 577,524                                                                  | 1                  | 301,074                                                                          | 301,074                                                                  | 1               | 319,542                                                                         | 319,542                                                                  | 1               | 331.854                                                                         | 331.854                                                                   |  |

|            |                               |     |                 |                                                                     |                                                                    |                 |                                                                     | · · ·                                                                                                                                                                                                                                                                                                                                                 |                 |                                                                     | · · ·                                                              |                 |                                                                     |                                                                    |                 |                                                                     |                                                                    |
|------------|-------------------------------|-----|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|            | •                             | •   |                 |                                                                     |                                                                    |                 |                                                                     | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -<br>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -<br>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | · <b>·</b>      |                                                                     |                                                                    |                 |                                                                     |                                                                    |                 | ŧ                                                                   | • -4                                                               |
|            |                               |     |                 |                                                                     |                                                                    |                 |                                                                     |                                                                                                                                                                                                                                                                                                                                                       |                 |                                                                     |                                                                    |                 |                                                                     |                                                                    |                 |                                                                     |                                                                    |
|            |                               |     |                 | F.Y 2020-7                                                          | 21                                                                 |                 | F.Y 2021-                                                           | 22                                                                                                                                                                                                                                                                                                                                                    |                 | F.Y 2022-                                                           | 23                                                                 |                 | F.Y 2023                                                            | -24                                                                |                 | F.Y 2024                                                            | -25                                                                |
| Sr.<br>No. | Nomenclature of the<br>Post   | BPS | No. of<br>posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>Per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year                                                                                                                                                                                                                                                                                    | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year | No. of<br>Posts | Fin. Impact<br>(Salery+Free<br>Supply)<br>for One post<br>per Annum | Fin. Impact<br>(Salery+Free<br>Supply)<br>for all post per<br>Year |
| 99         | Cook                          | 4   | -               | 273,348                                                             | -                                                                  | 4               | 273,348                                                             | 1,093,392                                                                                                                                                                                                                                                                                                                                             | 4               | 285,228                                                             | 1,140,912                                                          | 4               | 303,048                                                             | 1,212,192                                                          | 3               | 314,928                                                             | 944,784                                                            |
| 100        | PPC Operator                  | 4   |                 | 273,348                                                             |                                                                    |                 | 273,348                                                             | -                                                                                                                                                                                                                                                                                                                                                     | 2               | 285,228                                                             | 570,456                                                            | 2               | 303,048                                                             | 606,096                                                            | -               | 314,928                                                             | [                                                                  |
| 101        | Washing Helper                | 3   | -               | 266,052                                                             |                                                                    |                 | 266,052                                                             |                                                                                                                                                                                                                                                                                                                                                       | 2               | 277,584                                                             | 555,168                                                            | -               | 294,882                                                             | -                                                                  | -               | 306,414                                                             | _                                                                  |
| 102        | Store Helper                  | 3   | 4               | 266,052                                                             | 1,064,208                                                          | 15              | 266,052                                                             | 3,990,780                                                                                                                                                                                                                                                                                                                                             | 15              | 277,584                                                             | 4,163,760                                                          | 15              | 294,882                                                             | 4,423,230                                                          | 15              | 306,414                                                             | 4,596,210                                                          |
| 103        | Truck Cleaner/Lory<br>Cleaner | 2   | -               | 258,426                                                             |                                                                    | 20              | 258,426                                                             | 5,168,520                                                                                                                                                                                                                                                                                                                                             | 15              | 269,598                                                             | 4,043,970                                                          | 15              | 286,356                                                             | 4,295,340                                                          | 15              | 297,528                                                             | 4,462,920                                                          |
| 104        | Waiter / Bearer               | ž   | -               | 258,426                                                             |                                                                    |                 | 258,426                                                             | - <del>-</del>                                                                                                                                                                                                                                                                                                                                        | 5               | 269,598                                                             | 1,347,990                                                          | 5               | 286,356                                                             | 1,431,780                                                          | 5               | 297,528                                                             | 1,487,640                                                          |
| 105        | Daftri                        | 2   | -               | 258,426                                                             | -                                                                  | 5               | 258,426                                                             | 1,292,130                                                                                                                                                                                                                                                                                                                                             | 5               | 269,598                                                             | 1,347,990                                                          | 5               | 286,356                                                             | 1,431,780                                                          | 5               | 297,528                                                             | 1,487,640                                                          |
| 106        | Mali                          | 1   | 4               | 253,740                                                             | 1,014,960                                                          | 5               | 253,740                                                             | 1,268,700                                                                                                                                                                                                                                                                                                                                             | 5               | 264,696                                                             | 1,323,480                                                          | 5               | 281,130                                                             | 1,405,650                                                          | 5               | 292,086                                                             | 1,460,430                                                          |
| 107        | Naib Qasid                    | 1   | 15              | 253,740                                                             | 3,806,100                                                          | 40              | 253,740                                                             | 10,149,600                                                                                                                                                                                                                                                                                                                                            | 40              | 264,696                                                             | 10,587,840                                                         | 40              | 281,130                                                             | 11,245,200                                                         | 40              | 292,086                                                             | 11,683,440                                                         |
| 108        | Sanitary<br>Worker/Sweeper    | 1   | 4               | 253,740                                                             | 1,014,960                                                          | 100             | 253,740                                                             | 25,374,000                                                                                                                                                                                                                                                                                                                                            | 100             | 264,696                                                             | 26,469,600                                                         | 90              | 281,130                                                             | 25,301,700                                                         | 90              | 292,086                                                             | 26,287,740                                                         |
|            | Total                         |     | 949             | 74,907,918                                                          | 309,955,098                                                        | 2,146           | 74,907,918                                                          | 765,536,316                                                                                                                                                                                                                                                                                                                                           | 1,429           | 78,192,306                                                          | 507,224,676                                                        | 1,095           | 83,118,888                                                          | 420,338,718                                                        | 947             | 86,403,276                                                          | 380,078,766                                                        |
|            |                               |     |                 |                                                                     |                                                                    |                 |                                                                     |                                                                                                                                                                                                                                                                                                                                                       |                 | •                                                                   |                                                                    |                 |                                                                     |                                                                    |                 |                                                                     |                                                                    |
|            | Total (in MRs.)               |     |                 | 310                                                                 |                                                                    |                 | 766                                                                 |                                                                                                                                                                                                                                                                                                                                                       |                 | 507                                                                 |                                                                    |                 | 420                                                                 | •                                                                  |                 | 380                                                                 |                                                                    |

.

# COMMUNICATION IMPROVEMENT

**PLAN** 

### Internal and External Communication

### Units Cost/ Unit FY 2020-21 FY 2021-22

### FY 2021-22 FY 2022-23 FY 2023-24 FY 202

### A: Internal Communications

Description

|     |                             |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                               | 경험성 관람을 받을                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |                             |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1   | 5,000,000                   | 5,000,000                                                                                                                             | -                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                               | -                                                                                                                                                                                                                                                                                                                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 369 | 3,000                       | 1,107,000                                                                                                                             | -                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                               | -                                                                                                                                                                                                                                                                                                                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 549 | 20,000                      | -                                                                                                                                     | -                                                                                                                                                                                                                                                                                                              | 10,980,000                                                                                                                                                                                                                                                                                                    | -                                                                                                                                                                                                                                                                                                                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|     |                             | 6,107,000                                                                                                                             | 0                                                                                                                                                                                                                                                                                                              | 10,980,000                                                                                                                                                                                                                                                                                                    | 0                                                                                                                                                                                                                                                                                                                                         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|     |                             |                                                                                                                                       |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                           | ante a la factoria de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía d<br>Native de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía de la compañía                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 549 | 24,000                      | -                                                                                                                                     | -                                                                                                                                                                                                                                                                                                              | 13,176,000                                                                                                                                                                                                                                                                                                    | 13,834,800                                                                                                                                                                                                                                                                                                                                | 14526540                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 1   | 700,000                     | 700,000                                                                                                                               | 735,000                                                                                                                                                                                                                                                                                                        | 771,750                                                                                                                                                                                                                                                                                                       | 810,338                                                                                                                                                                                                                                                                                                                                   | 850,854                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|     |                             | 700,000                                                                                                                               | 735,000                                                                                                                                                                                                                                                                                                        | 13,947,750                                                                                                                                                                                                                                                                                                    | 14,645,138                                                                                                                                                                                                                                                                                                                                | 15,377,394                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|     | 1<br>369<br>549<br>549<br>1 | 1         5,000,000           369         3,000           549         20,000           549         24,000           1         700,000 | 1         5,000,000         5,000,000           369         3,000         1,107,000           549         20,000         -           6,107,000         549         24,000           549         24,000         -           1         700,000         700,000           700,000         700,000         700,000 | 1         5,000,000         5,000,000         -           369         3,000         1,107,000         -           549         20,000         -         -           6,107,000         0         0           549         24,000         -         -           1         700,000         735,000         735,000 | 1         5,000,000         -           369         3,000         1,107,000         -           549         20,000         -         10,980,000           6,107,000         0         10,980,000           549         24,000         -         13,176,000           1         700,000         700,000         735,000         13,947,750 | 1         5,000,000         -         -           369         3,000         1,107,000         -         -           549         20,000         -         -         10,980,000         -           549         20,000         -         -         10,980,000         -           549         20,000         -         -         10,980,000         -           549         20,000         -         -         10,980,000         6           549         24,000         -         -         13,176,000         13,834,800           549         24,000         -         -         13,176,000         13,834,800           1         700,000         735,000         771,750         810,338           4         700,000         735,000         13,947,750         14,645,138 |

### B: External Communications & Outreach

| САРЕХ                                                   | South States | SCOSTAUMIN | 18762402405241 |             | SALEY PLOY PLOY A | Stelove steel | MT2202025     |
|---------------------------------------------------------|--------------|------------|----------------|-------------|-------------------|---------------|---------------|
| Toyota Hiace for Mobility of Communication Staff        | 1            | 3,500,000  | 3,500,000      |             |                   |               |               |
| OPEX                                                    | Units        | COSTAUTION | FY 2020-241    | ¥ 210246254 | - IJY202224       | AY SOZE BOAN  | A STANDORNEZ- |
| Mass Media Campaigns                                    |              |            |                |             |                   |               |               |
| Newspaper Ads in leading local newspapers               | 4            | 1,500,000  | 6,000,000      | 6,300,000   | 6,615,000         | 6,945,750     | 7,293,038     |
| TV/Cable Spots throughout Peshawar and its surroundings | 4            | 600,000    | 2,400,000      | 2,520,000   | 2,646,000         | 2,778,300     | 2,917,215     |
| Public Service announcement on local FM Radio           | 4            | 600,000    | 2,400,000      | 2,520,000   | 2,646,000         | 2,778,300     | 2,917,215     |
| Billboards & Street Pole Streamers                      | 4            | 1,100,000  | 4,400,000      | 4,620,000   | 4,851,000         | 5,093,550     | 5,348,228     |
|                                                         |              |            | 15,200,000     | 15,960,000  | 16,758,000        | 17,595,900    | 18,475,695    |

|                                                    |           | <u> </u>  |             |            |            |             |                                                                                             |
|----------------------------------------------------|-----------|-----------|-------------|------------|------------|-------------|---------------------------------------------------------------------------------------------|
| Public Outreach & Awareness Programmes             |           |           |             |            | n          |             |                                                                                             |
| University Campus Sessions                         | 4         | 50,000    | 200,000     | 210,000    | 220,500    | 231,525     | 243,101                                                                                     |
| Local Imam Masjid sessions                         | 4         | 50,000    | 200,000     | 210,000    | 220,500    | 231,525     | 243,101                                                                                     |
| Community Center Sessions                          | 4         | 50,000    | 200,000     | 210,000    | 220,500    | 231,525     | 243,101                                                                                     |
| Chamber of Commerce sessions                       | 4         | 50,000    | 200,000     | 210,000    | 220,500    | 231,525     | 243,101                                                                                     |
| Press Club Meetings                                | 4         | 50,000    | 200,000     | 210,000    | 220,500    | 231,525     | 243,101                                                                                     |
| Energy Conservation Walk                           | 2         | 200,000   | 400,000     | 420,000    | 441,000    | 463,050     | 486,203                                                                                     |
| Painting & Debate Competition                      | 1         | 500,000   | 500,000     | 525,000    | 551,250    | 578,813     | 607,753                                                                                     |
|                                                    |           |           | 1,900,000   | 1,995,000  | 2,094,750  | 2,199,488   | 2,309,462                                                                                   |
| Design and printing of Customer Awareness Material | 2         | 3,000,000 | 6,000,000   | 6,300,000  | 6,615,000  | 6,945,750   | 7,293,038                                                                                   |
|                                                    |           |           |             |            |            |             |                                                                                             |
| Monthly Newsletter                                 | 12        | 40,000    | 480,000     | 528,000    | 580,800    | 638,880     | 702,768                                                                                     |
|                                                    |           |           |             |            |            |             |                                                                                             |
| Student Energy Conservation Progarmmes             | 24        | 50,000    | 1,200,000   | 1,260,000  | 1,323,000  | 1,389,150   | 1,458,608                                                                                   |
|                                                    |           |           | · · · · · · |            |            |             | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| Radio Talk shows                                   | 26        | 107,690   | 2,799,940   | 3,079,934  | 3,387,927  | 3,726,720   | 4,099,392                                                                                   |
|                                                    |           |           |             |            |            |             |                                                                                             |
| Mobility                                           |           |           |             |            |            |             | · · · · · ·                                                                                 |
| Fuel for Toyota Hiace                              | 1         | 300,000   | 300,000     | 330,000    | 363,000    | 399,300     | 439,230                                                                                     |
|                                                    |           |           |             |            |            | · · · · · · | 4                                                                                           |
| TOTAL OPEX External Communication                  |           |           | 27,879,940  | 29,452,934 | 31,122,477 | 32,895,188  | 34,778,192                                                                                  |
|                                                    |           |           |             |            |            |             |                                                                                             |
|                                                    |           |           |             |            |            | •           |                                                                                             |
| Total Capex Communications (Internal + External)   |           |           | 9,607,000   | 0          | 10,980,000 | 0           | 0                                                                                           |
| Total Opex (Internal + External ) - Communications |           |           | 28,579,940  | 30,187,934 | 45,070,227 | 47,540,325  | 50,155,586                                                                                  |
|                                                    |           |           | d           |            |            |             |                                                                                             |
| Total Capex Communications (Internal + External)   | (in MRs.) |           | 10          | 0          | 11         | 0           | 0                                                                                           |
| Total Opex (Internal + External ) - Communications | (in MRs.) |           | 29          | 30         | 45         | 48          | 50                                                                                          |

## **LINEMAN TRAINING & SAFETY PLAN**
#### LIM SAFETY SCORE AND COST - STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE SCOPE As of FY 2020-21. Total LM (LM182) at MEPCO 3690 Sanctioned Total LM (LM1&2) at MEPCO 3284 Working Total LM (LM1&2) at MEPCO 406 Vacant Total ALM at MEPCO Sanctioned Total ALM at MEPCO Working Total ALM at MEPCO Vacant 5657 3886 1771 . Total number of subdivisions in 231 MEPCO New Subdivisions that will be 30 added (6 per year in next 5 years) Total number of Subdivisions: 231 a.1 Transportation, Bucket Mounted Trucks 01 per subdivision: Unit Price No. of Items 231 PKR 8,000,000 PKR 1,848,000,000 e-2 Tries Communication Devices Communication Devices Communication Devices Communication Devices Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Communication Comm

(01 per subdivision)

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#### a-3 Tools

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| srina 💡   | Description                 | Unit St | Requirement | t of Pate Par Unit Se | TOTAL EXPENSE | Requirement     | Rate Per Unit       | TOTAL EXPENSE        | TOTAL Requirement | Rate Per Unit          | TOTAL EXPENSE  | A Pagulyament | Rate Per Unit | TOTAL EXPERISE | IOTAL SA     | Rate Per | TOTAL      |
|-----------|-----------------------------|---------|-------------|-----------------------|---------------|-----------------|---------------------|----------------------|-------------------|------------------------|----------------|---------------|---------------|----------------|--------------|----------|------------|
| 1         | insulated Bubber Gloves     | Pairs   | 13603       | 11.200 W 21.000       | 1110000       | WW FY 2071-2022 | 19-59-20-5198-21842 | SWART SAMPLES IN THE |                   | where the other set on | S S Providence | FY 2029-2024  | North etc.    | FY 2023-24-    | FY 2024-2025 | Unit     | FY 2024-25 |
| 2         | Protective Leather Cloves   | Paire   | 11002       | 5490                  | 4//05060      | 13692           | 3839                | 52563588             | 13692             | 4223                   | 57821316       | 13692         | 4645          | 63599340       | 13692        | 5110     | 69966120   |
| 3         | Working Gloves              | Pairs   | 15220       | 113                   | 1870000       | 13692           | 192                 | 2629864              | 13692             | 211                    | 2889012        | 13692         | 232           | 3176544        | 13692        | 255      | 3491460    |
| 4         | Salety Hat                  | No      | 7610        | 123                   | 10/2000       | 15220           | 135                 | 2054700              | 16220             | 140                    | 2252560        | 15220         | 163           | 2480660        | 15220        | 179      | 2724360    |
|           | Salety Bell                 | No      | 7477        | 407                   | 15020260      | 7610            | 530                 | 4078960              | 7610              | 590                    | 4489900        | 7610          | 649           | 4932890        | 7610         | 714      | 5433540    |
|           | Safety Boot 6               | Pairs   | 1522        | 2000                  | 3404678       | 1622            | 4895                | 16/55585             | 3423              | 5384                   | 18429432       | 3423          | 5922          | 20271006       | 3423         | 6514     | 22297422   |
|           | Safety Boot 7"              | Pairs   | 1822        | 2009                  | 3104678       | 1022            | 2308                | 3514298              | 1522              | 2540                   | 3665880        | 1522          | 2794          | 4252468        | 1522         | 3073     | 4677106    |
| 6         | Safety Bool B               | Pairs   | 1522        | 2000                  | 3101576       | 4620            | 2309                | 3514298              | 1522              | 2540                   | 3865880        | 1522          | 2794          | 4252468        | 1522         | 3073     | 4677106    |
| 作         | Salety Boot 9"              | Pairs   | 1622        | 2055                  | 3194078       | 1522            | 2309                | 3514298              | 1522              | 2540                   | 3865880        | 1522          | 2794          | 4252468        | 1522         | 3073     | 4677106    |
|           | Safuy Boot 10"              | Paire   | 1622        | 2095                  | 3194070       | 1022            | 2309                | 3514298              | 1622              | 2540                   | 3865880        | 1522          | 2794          | 4252468        | 1522         | 3073     | 4677106    |
| .7        | Disconnection Stick         | No No   | 3423        | 2079                  | 15051200      | 1622            | 2309                | 3514298              | 1522              | 2540                   | 3865880        | 1522          | 2794          | 4252468        | 1522         | 3073     | 4677106    |
|           | Side Cutting Piler          | No      | ERAG        | 370                   | 2523020       | 3423            | 7840                | 1656/320             | 3423              | 5324                   | 18224052       | 3423          | 5856          | 20045088       | 3423         | 6442     | 22050966   |
| 9         | Lineman Life Savinn Chain   | No      | 1423        | 4675                  | £101020       | 6846            | 408                 | 2/93168              | 6846              | 449                    | 3073854        | 6846          | 440           | 3012240        | 6845         | 184      | 3313464    |
| 10        | Lingman Rain Coat           | Nn      | 7810        | 676                   | 0391225       | 3423            | 1/32                | 5928636              | 3423              | 1905                   | 6520815        | 3423          | 2095          | 7171185        | 3423         | 2304     | 7886592    |
| 11        | Lingeran Tool Bad           | No      | 6846        | 575                   | 1629380       | 7610            | 632                 | 4809520              | 7610              | 695                    | 5288950        | 7610          | 764           | 5814040        | 7610         | 840      | 6392400    |
| 12        | Boll Culler                 | No      | 402         | 3400                  | 1402080       | 6846            | 583                 | 3991218              | 6846              | 641                    | 4388286        | 6846          | 705           | 4826430        | 6846         | 775      | 5305650    |
|           | Ratchet i sver Hoist, 750km | Nu      | 219         | 6/00                  | 1402500       | 904             | 3839                | 1543278              | 402               | 4223                   | 1697645        | 402           | 4645          | 1867290        | 402          | 5110     | 2054220    |
| 13        | Ratchet Lever Hoist 1500ko  | No      | 210         | 8(00)                 | 101000        | 219             | 7040                | 1541760              | 219               | 7744                   | 1695936        | 219           | 8518          | 1865442        | 219          | 9370     | 2052030    |
| 14        | Chain Pulky Block 3-Ton     | No      | 196         | 105/0                 | 2058000       | 219             | 9240                | 20235-0              | 219               | 10164                  | 2225916        | 219           | 11180         | 2448420        | 219          | 12298    | 2693262    |
| 15        | Pulling Grips (4-20 MM)     | No      | 402         | 3000                  | 1567800       | 150             | 11550               | 2263800              | 196               | 12705                  | 2490180        | 196           | 13975         | 2739100        | 196          | 15372    | 3012912    |
|           | F. Glass Ladder 32ft        | No      | 402         | 20500                 | 1100000       | 402             | 4290                | 1724580              | 402               | 4719                   | 1897038        | 402           | 5191          | 2086782        | 402          | 5710     | 2295420    |
| 16        | F. Glass Ladder 48/I        | No      | 402         | 2000                  | 16281000      | 402             | 32560               | 13089120             | 402               | 35816                  | 14398032       | 402           | 39398         | 15837996       | 402          | 43338    | 17421876   |
| 17        | Torch 3-Cell (Chargeable)   | No      | 201         | 378                   | 76078         | 101             | 44050               | 1/909100             | 402               | 49005                  | 19700010       | 402           | 53905         | 21669810       | 402          | 59295    | 23836590   |
| 1 · · · · | Adjustable Screw Wrench 12" | No      | 784         | 410                   | 301440        | 704             | 410                 | 0,010                | 201               | 458                    | 92058          | 201           | 504           | 101304         | 201          | 554      | 111354     |
| 16        | Adjustable Screw Wrench 10" | No      | 784         | 550                   | 431200        | 704             |                     | 353384               | 784               | 495                    | 388864         | 784           | 646           | 428064         | 784          | 601      | 471184     |
|           | Adjustable Screw Wrench 08" | No.     | 784         | 249                   | 195216        | 784             | 274                 | 9/4320               | 784               | 666                    | 522144         | 784           | 733           | 574672         | 784          | 806      | 631904     |
| 19        | Manlia Rope 24mm            | Mir     | 10050       | 242                   | 2432100       | 10050           | 214                 | 214010               | /84               | 301                    | 235984         | 784           | 331           | 259504         | 784          | 364      | 285376     |
| 20        | Earthing Set                | Nu      | 402         | 20900                 | 8401800       | 10000           | 200                 | 2073300              | 10050             | . 293                  | 2944650        | 10060         | 322           | 3236100        | 10050        | 354      | 3557700    |
| 21        | Lineman Knile               | íNc.    | 3423        | 250                   | R86557        | 1421            | 22890               | 9241980              | 402               | 75289                  | 10166178       | 402           | 27818         | 11182d36       | 402          | 30600    | 12301200   |
| 12        | Clip on KWH Meter           | No      | 179         | 30250                 | 5414750       | 179             | 13225               | 575555               | 1423              | 313                    | 10/1399        | 3423          | 344           | 1177512        | 3423         | 378      | 1293894    |
| 25        | Hand Line                   | cit)    | 402         | 1200                  | 482400        | 402             | 1320                | 5956225              | 1/9               | 36502                  | 6551758        | 179           | 40262         | 7205898        | 179          | 44281    | 7926299    |
| 24        | Phase Fester                | No.     | 6846        | 90                    | 616140        | 5846            |                     | 677754               |                   | 1452                   | 583704         | 402           | 1597          | 641994         | 402          | 1757     | 706314     |
| 25        | Geeper                      | No      | 6846        | 235                   | 1608810       | 6846            | 258                 | 1766268              | 6346              | 109                    | 140214         | 6846          | 120           | 821520         | 6B46         | 132      | 903672     |
| 26        | High Voltage Detector       | No.     | 402         | 24200                 | 9728400       | 412             | 26620               | 10701240             | 402               | 204                    | 1944264        | 6845          | 312           | 2135952        | 6846         | 343      | 2348178    |
| L         | TOTAL                       |         |             |                       | 184999596     |                 |                     | 201407646            |                   | 19202                  | 11//1364       | 402           | 32210         | 12948420       | 402          | 35431    | 14243262   |
|           |                             |         |             |                       |               | 4 <u></u>       | L                   | 20348/545            | l                 |                        | 223830916      |               |               | 245827579      |              |          | 270394171  |

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All has been

|       | CAPEX                                                                               | iersenning zein | NETTATINA C                           | ALC: NOTE SU | and the second second | MT2771550   | <b>3477</b> 1725234 |             | MAN CITIZES   |
|-------|-------------------------------------------------------------------------------------|-----------------|---------------------------------------|--------------|-----------------------|-------------|---------------------|-------------|---------------|
| 1     | Bucket Mounted Trucks 01 per<br>subdivision:                                        | 231             | \$000000                              | 224,000,000  | 304,000,000           | 400,000,000 | 400,000,000         | 520,000,000 | 1,848,000,000 |
| · 2 . | Mobile Phones for Complaint<br>Handling LM Team field Teams<br>(01 per subdivision) | 231             | 8000                                  | 376,000      | 368,000               | 368,000     | 368,000             | 368,000     | 1,848,000     |
| 3     | Tools & PPEs                                                                        |                 | -                                     | 164,999,596  | 203,487,545           | 223,830,916 | 245,827,579         | 270,394,171 | 1,128,539,807 |
|       | Total Capex Cost                                                                    |                 | · · · · · · · · · · · · · · · · · · · | 409,375,596  | 507,855,545           | 624,198,916 | 646,195,579         | 790,762,171 | 2,978,387,807 |
|       | Total Capex Cost (I                                                                 | n MRs.)         |                                       | 409          | 508                   | 624         | 645                 | 791         | 2,978         |

Operationel Expanditure X/set JWise (In 74)

|     | the for the                                                                         |       |         | en receiver est | <b>PY 2021-22</b> | - Franzista |             | e (rywierie) | Sec. Total  |
|-----|-------------------------------------------------------------------------------------|-------|---------|-----------------|-------------------|-------------|-------------|--------------|-------------|
| 191 | Opex                                                                                |       |         |                 |                   | 1.56 3.1.6  |             |              |             |
| 1   | Bucket Mounted Trucks 01 per<br>subdivision:                                        | 231   | 620,000 | 17,360,000      | 40,920,000        | 71,920,000  | 102,920,000 | 143,220,000  | 376,340,000 |
| 2   | Mobile Phones for Complaint<br>Handling LM Team field Teams<br>(61 per subdivision) | 231   | 12,000  | 564,000         | 1,116,000         | 1,668,900   | 2,220,000   | 2,772,000    | 8,340,000   |
|     | Total Opex Co                                                                       | st    |         | 17,924,000      | 42,036,000        | 73,588,000  | 105,140,000 | 145,992,000  | 384,580,000 |
|     |                                                                                     |       |         |                 |                   |             |             |              |             |
|     | Total Opex Cost (Ir                                                                 | MRs.) |         | 18              | 42                | 74          | 105         | 146          | 385         |

#### 05 YEAR PLAN FOR JOB SPECIFIC TRAINING COURSES TO BE HELD AT RTC AND CTC'S FOR THE YEAR 2020 TO 2025

| 1919 - 1919<br>1919 - 1919 | Eastern Schene Souther | A significant of the |      | States Scott | mi ji ji ji | 1 - C (P.70  | 1-2024     |            | 2.11.64.54.14 |
|----------------------------|------------------------|----------------------|------|--------------|-------------|--------------|------------|------------|---------------|
|                            |                        |                      |      | No 刘 Georgeo | Panicipanis | NO OF COMPAN | Parteponia | CERT/COLOR | a bandhana ya |
| 156                        | 3120                   | 156                  | 3150 | 156          | 3175        | 156          | 3200       | 156        | 3250          |

05 YEAR PLAN FOR S-100 & HSE COURSES CATEGORY WISE TO BE HELD AT RTC AND CTC'S DURING JULY 2021 TO JUNE 2025

| .   |             | 1965 S. 1877 - 24 |             |               | 5-6-6-6- <b>6-6</b> -6-6-6-6-6-6-6-6-6-6-6-6-6-6 | 1. (Fr.7.5     |                 |                |                                       |                |              |
|-----|-------------|-------------------|-------------|---------------|--------------------------------------------------|----------------|-----------------|----------------|---------------------------------------|----------------|--------------|
| 2   |             |                   | Neorecontes | ive organiser | 20 Pertilegrad                                   | No. Of Courses | - Parts abarris | No. Of Courses | • • • • • • • • • • • • • • • • • • • | No. Of Correct | Participate. |
| 1   | LS-II       | 10                | 200         | 10            | 200                                              | 10             | 260             | 10             | 200                                   | 10             | 200          |
|     | LFM-II/LM-I | 10                | 250         | 12            | 300                                              | 12             | 300             | 12             | 340                                   | 15             | 200          |
| 1   | LM-II       | 25                | 500         | 25            | 560                                              | 20             | 500             | 25             | 500                                   | 25             | 600          |
| - 8 | ALM         | 30                | 600         | 30            | 600                                              | 32             | 640             | 32             | 640                                   | 10             | 650          |
| •   | Total       | 75                | 1550        | 77            | 1600                                             | 74             | 1640            | 79             | 1680                                  | 80             | 1650         |

## **ANNEXURE-19**

# FINANCIAL ANALYSIS

# (IRR, PAYBACK, B/C RATIO)

#### MULTAN ELECTRIC POWER COMPANY LTD.

PROJECT FINANCIAL ANALYSIS

STG - Secondary Transmission & Grid Station Project

2020-21 to 2024-25

| 1     |                                          | Project Cost   |            | <u> </u>          | Project Benefi                  | ts                       | Benefits/                     |          | Discount  | ed Cost @ |           |           | Discounted | Benefits @ |           |                | , <u> </u> | Discoun | t Factor @ |                |
|-------|------------------------------------------|----------------|------------|-------------------|---------------------------------|--------------------------|-------------------------------|----------|-----------|-----------|-----------|-----------|------------|------------|-----------|----------------|------------|---------|------------|----------------|
| Year  | Capital<br>Cost                          | O&M Cost       | Total Cost | Savings<br>(MkWh) | Power Purchase<br>Price Rs./kWh | Savings<br>(Million Rs.) | (Loss)<br>(Rs. In<br>Million) | 7.47%    | 10.00%    | 12.00%    | 15.02%    | 7.47%     | 10.00%     | 12.00%     | 15.02%    | Net<br>Benefit | 7.47%      | 10.00%  | 12.00%     | 15.02%         |
| 1     | 2                                        | 3              | 4=(2+3)    | 5                 | 6                               | 7=(5*6)                  | 8=(7-4)                       | 9=(4*18) | 10=(4*19) | 11=(4*20) | 12=(4*21) | 13=(7*18) | 14=(7*19)  | 15=(7*20)  | 16=(7*21) | 17=(8-4)       | 18         | 19      | 20         | 21             |
| 2021  | 2,370                                    |                | 2,370.40   | 56.50             | 12.97                           | 732.81                   | (1,638)                       | 2,205.6  | 2,154.9   | 2,116.4   | 2,060.9   | 681.9     | 666.2      | 654.3      | 637.1     | (1,638)        | 0.9305     | 0.9091  | 0.8929     | 0.8694         |
| 2022  | 4,372                                    |                | 4,371.90   | 176.50            | 12.97                           | 2,289.21                 | (2,083)                       | 3,785.3  | 3,613.1   | 3,485.3   | 3,304.6   | 1,982.0   | 1,891.9    | 1,824.9    | 1,730.4   | (2,083)        | 0.8658     | 0.8264  | 0.7972     | 0.7559         |
| 2023  | 4,106                                    | <br>           | 4,105.70   | 278.00            | 12.97                           | 3,605.66                 | (500)                         | 3,307.7  | 3,084.7   | 2,922.4   | 2,698.2   | 2,904.8   | 2,709.0    | 2,566.4    | 2,369.5   | (500)          | 0.8056     | 0.7513  | 0.7118     | 0.6572         |
| 2024  | 4,453                                    |                | 4,453.40   | 326.50            | 12.97                           | 4,234.71                 | (219)                         | 3,338.4  | 3,041.7   | 2,830.2   | 2,544.5   | 3,174.5   | 2,892.4    | 2,691.2    | 2,419.5   | (219)          | 0.7496     | 0.6830  | 0.6355     | 0.5714         |
| 2025  | 4,529                                    | ala (naisina a | 4,528.70   | 355.00            | 12.97                           | 4,604.35                 | 76                            | 3,158.9  | 2,812.0   | 2,569.7   | 2,249.6   | 3,211.7   | 2,858.9    | 2,612.6    | 2,287.2   | 76             | 0.6975     | 0.6209  | 0.5674     | 0.4967         |
| 2026  |                                          | 594.90         | 594.90     | 373.00            | 12.97                           | 4,837.81                 | 4,243                         | 386.1    | 335.8     | 301.4     | 256.9     | 3,140.0   | 2,730.8    | 2,451.0    | 2,089.3   | 4,243          | 0.6490     | 0.5645  | 0.5066     | 0.4319         |
| 2027  | د.<br>مان التعريقية ال                   | 594.90         | 594.90     | 359.95            | 12.97                           | 4,668.49                 | 4,074                         | 359.3    | 305.3     | 269.1     | 223.4     | 2,819.5   | 2,395.7    | 2,111.8    | 1,752.9   | 4,074          | 0.6039     | 0.5132  | 0.4523     | 0.3755         |
| 2028  |                                          | 594.90         | 594.90     | 347.35            | 12.97                           | 4,505.09                 | 3,910                         | 334.3    | 277.5     | 240.3     | 194.2     | 2,531.7   | 2,101.7    | 1,819.5    | 1,470.7   | 3,910          | 0.5620     | 0.4665  | 0.4039     | 0.3264         |
| 2029  |                                          | 594.90         | 594.90     | 335.19            | 12.97                           | 4,347.41                 | 3,753                         | 311.1    | 252.3     | 214.5     | 168.8     | 2,273.2   | 1,843.7    | 1,567.7    | 1,233.9   | 3,753          | 0.5229     | 0.4241  | 0.3606     | 0.2838         |
| 2030  | ·                                        | 594.90         | 594.90     | 323.46            | 12.97                           | 4,195.25                 | 3,600                         | 289.5    | 229.4     | 191.5     | 146.8     | 2,041.2   | 1,617.5    | 1,350.8    | 1,035.2   | 3,600          | 0.4866     | 0.3855  | 0.3220     | 0.2468         |
| 2031  |                                          | 594.90         | 594.90     | 312.14            | 12.97                           | 4,048.42                 | 3,454                         | 269.3    | 208.5     | 171.0     | 127.6     | 1,832.8   | 1,418.9    | 1,163.8    | 868.5     | 3,454          | 0.4527     | 0.3505  | 0.2875     | 0.2145         |
| 2032  | <b></b>                                  | 594.90         | 594.90     | . 301.21          | 12.97                           | 3,906.72                 | 3,312                         | 250.6    | 189.6     | 152.7     | 111.0     | 1,645.8   | 1,244.8    | 1,002.8    | 728.7     | 3,312          | 0.4213     | 0.3186  | 0.2567     | 0.1865         |
| 2033  |                                          | 594.90         | 594.90     | 290.67            | 12.97                           | 3,769.99                 | 3,175                         | 233.2    | 172.3     | 136.3     | 96.5      | 1,477.8   | 1,092.0    | 864.0      | 611.3     | 3,175          | 0.3920     | 0.2897  | 0.2292     | 0.1622         |
| 2034  |                                          | 594.90         | 594.90     | 280.50            | 12:97                           | 3,638.04                 | 3,043                         | 217.0    | 156.7     | 121.7     | 83.9      | 1,326.9   | 958.0      | 744.4      | 512.9     | 3,043          | 0.3647     | 0.2633  | 0.2046     | 0.1410         |
| 2035  |                                          | 594.90         | 594.90     | 270.68            | 12.97                           | 3,510.71                 | 2,916                         | 201.9    | 142.4     | 108.7     | 72.9      | 1,191.5   | 840.4      | 641.4      | 430.3     | 2,916          | 0.3394     | 0.2394  | 0.1827     | <b>0,1226</b>  |
| 2036  |                                          | 594.90         | 594.90     | 261.21            | 12.97                           | 3,387.83                 | 2,793                         | 187.9    | 129.5     | 97.0      | 63.4      | 1,069.9   | 737.3      | 552.6      | 361.0     | 2,793          | 0.3158     | 0.2176  | 0.1631     | <b>0,1</b> 066 |
| 2037  |                                          | 594,90         | 594.90     | 252.06            | 12.97                           | 3,269.26                 | 2,674                         | 174.8    | 117.7     | 86.6      | 55.1      | 960.7     | 646.8      | 476.1      | 302.9     | 2,674          | 0.2938     | 0.1978  | 0.1456     | 0.0927         |
| 2038  |                                          | 594.90         | 594.90     | 243.24            | 12.97                           | 3,154.83                 | 2,560                         | 162.7    | 107.0     | 77.4      | 47.9      | 862.6     | 567.4      | 410.3      | 254.1     | 2,560          | 0.2734     | 0.1799  | 0.1300     | 0.0806         |
| 2039  |                                          | 594.90         | 594.90     | 234.73            | 12.97                           | 3,044.42                 | 2,450                         | 151.4    | 97.3      | 69.1      | 41.7      | 774.5     | 497.8      | 353.5      | 213.2     | 2,450          | 0.2544     | 0.1635  | 0.1161     | 0.0700         |
| 2040  |                                          | 594.90         | 594,90     | 226.51            | 12.97                           | 2,937.86                 | 2,343                         | 140.8    | 88.4      | 61.7      | 36.2      | 695,5     | 436.7      | 304.6      | 178.9     | 2,343          | 0.2367     | 0.1486  | 0.1037     | 0.0609         |
| 2041  | <b></b>                                  | 594.90         | 594.90     | 218.58            | 12.97                           | 2,835.04                 | 2,240                         | 131.0    | 80.4      | 55.1      | 31.5      | 624.5     | 383.1      | 262.4      | 150.1     | 2,240          | 0.2203     | 0.1351  | 0.0926     | 0.0529         |
| 2042  |                                          | 594.90         | 594.90     | 210.93            | 12.97                           | 2,735.81                 | 2,141                         | 121.9    | 73.1      | 49.2      | 27.4      | 560.7     | 336.1      | 226.1      | 125.9     | 2,141          | 0.2050     | 0.1228  | 0.0826     | 0.0460         |
| 2043  |                                          | 594.90         | 594.90     | 203.55            | 12.97                           | 2,640.06                 | 2,045                         | 113.5    | 66.4      | 43.9      | 23.8      | 503.5     | 294.8      | 194.8      | 105.6     | 2,045          | 0.1907     | 0.1117  | 0.0738     | 0.0400         |
| 2044  |                                          | 594.90         | 594.90     | 196.43            | 12.97                           | 2,547.65                 | 1,953                         | 105.6    | 60.4      | 39.2      | 20.7      | 452.1     | 258.7      | 167.8      | 88.6      | 1,953          | 0.1775     | 0.1015  | 0.0659     | 0.0348         |
| 2045  |                                          | 594.90         | 594.90     | 102.03            | 12.97                           | 2,458.49                 | 1,864                         | 98.2     | 54.9      | 35.0      | 18.0      | 406.0     | 226.9      | 144.6      | 74.4      | 1,864          | 0.1651     | 0.0923  | 0.0588     | 0.0302         |
| 2040  |                                          | 594.90         | 594.90     | 182.92            | 12,97                           | 2,372.44                 | 1,//8                         | 91.4     | 49.9      | 31.2      | 15.6      | 364.5     | 199.1      | 124.6      | 62.4      | 1,778          | 0.1536     | 0.0839  | 0.0525     | 0.0263         |
| 2047  |                                          | 594:50         | 594.90     | 170.52            | 12,97                           | 2,289.40                 | 1,695                         | 85.1     | 45.4      | 27.9      | 13.6      | 327.3     | 1/4.6      | 107.4      | 52.3      | 1,695          | 0.1430     | 0.0763  | 0.0469     | 0.0229         |
| 2048  |                                          | 594.90         | 594.50     | 164.20            | 12.97                           | 2,209.27                 | 1,014                         | 79.1     | 41.3      | 24.9      | 11.8      | 293.9     | 153.2      | 92.5       | 43.9      | 1,614          | 0.1330     | 0.0693  | 0.0419     | 0.0199         |
| 2015  |                                          | 504.00         | 594.90     | 104.30            | 12.97                           | 2,151.95                 | 1,037                         | /3.0     | 37.5      | 22.2      | 10.3      | 263.9     | 134.4      | /9./       | 36.8      | 1,537          | 0.1238     | 0.0630  | 0.0374     | 0.0173         |
| 2050  | . •••• · · · · · · · · · · · · · · · · · | 594.90         | 594.90     | 150.02            | 12.97                           | 2,057.33                 | 1,462                         | 08.5     | 34,1      | 19.9      | 8.9       | 237.0     | 117.9      | 68.7       | 30.9      | 1,462          | 0.1152     | 0.0573  | 0.0334     | 0.0150         |
| 2031  | de te a                                  | 594.90         | 594,90     | 147 71            | 12.97                           | 1,985.33                 | 1,390                         | 63.8     | 31.0      | 1/./      | 7.8       | 212.8     | 103.4      | 59.2       | 25.9      | 1,390          | 0.1072     | 0.0521  | 0.0298     | 0.0131         |
| 2032  |                                          | 534.50         | 594.50     | 147,71            | 12.97                           | 1,515.84                 | 1,521                         | 59.3     | 28.2      | 15.8      | 6.8       | 191,1     | 90.7       | 51.0       | 21.8      | 1,321          | 0.0997     | 0.0474  | 0.0266     | 0.0114         |
| 2055  |                                          | 504.50         | 594.90     | 192.04            | 12.97                           | 1,048./8                 | 1,254                         | 55.2     | 25.6      | 14.1      | 5.9       | 1/1.6     | /9.6       | 43.9       | 18.3      | 1,254          | 0.0928     | 0.0431  | 0.0238     | 0.0099         |
| 2034  |                                          | 00 No 7        | 504.00     | 100.77            | 12.57                           | 1 731 63                 | 1,103                         | 51.4     | 25.5      | 12.6      | 5.1       | 154.0     | 69.8       |            | 15.3      | 1,189          | 0.0863     | 0.0391  | 0.0212     | 0.0086         |
| 2000  |                                          | 554.50         | 354.30     | 132.74            | 12.97                           | 1,721.03                 | 1,171                         | 47.8     | 41.2      | 11.3      | 4.4       | 138.3     | 61.3       | 32.6       | 12.8      | 1,127          | 0.0803     | 0.0356  | 0.0189     | 0.0075         |
| TOTAL | 19,830                                   | 17,847.09      | 37,677.19  | 8,190             |                                 |                          | 68,545                        | 20,711.2 | 18,188.6  | 16,643.1  | 14,795.6  | 41,499.5  | . 32,831.6 | 27,856.9   | 22,352.8  | 68,545         |            | ·       | ·          | - <u></u>      |

Note-I : NEPRA has determined Weighted Average Cost of Capital (WACC) @ 15.02% per Annum in Tariff Determination for FY 2019-20.

Note-II : 3 Months KIBOR on 16/04/2021 is 7.47 %.

Analysis at Discount Rate Benefit/ Cost Ratio (B/C Ratio) Net Present Value of Benefits (Rs. In Million) IRR on Net Benefits %age Payback Period (Years)

|      | 15.02% | 12.00% | 10.00% | 7.47%  |
|------|--------|--------|--------|--------|
|      | 1.511  | 1.674  | 1.805  | 2.004  |
|      | 7,557  | 11,214 | 14,643 | 20,788 |
| 34%  |        |        |        |        |
| 2.98 |        |        |        |        |

#### MULTAN ELECTRIC POWER COMPANY LTD.

PROJECT FINANCIAL ANALYSIS

#### DOP & ELR

### 2020-21 to 2024-25

|       |                                                                   | Project Cost                                            |            |                   | Project Benefit                 | s                        | Benefits/                     |          | Discount  | ed Cost @ |           |           | Discounted | Benefits @ |           |                |        | Discount | Factor @ |         |
|-------|-------------------------------------------------------------------|---------------------------------------------------------|------------|-------------------|---------------------------------|--------------------------|-------------------------------|----------|-----------|-----------|-----------|-----------|------------|------------|-----------|----------------|--------|----------|----------|---------|
| Year  | Capital<br>Cost                                                   | O&M Cost                                                | Totai Cost | Savings<br>(MkWh) | Power Purchase<br>Price Rs./kWh | Savings<br>(Million Rs.) | (Loss)<br>(Rs. In<br>Million) | 7.47%    | 10.00%    | 12.00%    | 15.02%    | 7.47%     | 10.00%     | 12.00%     | 15.02%    | Net<br>Benefit | 7.47%  | 10.00%   | 12.00%   | 15.02%  |
| 1     | 2                                                                 | 3                                                       | 4=(2+3)    | 5                 | 6                               | 7=(5*6)                  | 8=(7-4)                       | 9=(4*19) | 10=(4*19) | 11=(4*20) | 12=(4*21) | 13=(7*18) | 14=(7*19)  | 15=(7*20)  | 16=(7*21) | 17=(8-4)       | 18     | 19       | 20       | 21      |
| 2021  | 4,576                                                             |                                                         | 4,576.00   | 55.90             | 12.97                           | 725.02                   | (3,851)                       | 4,257.9  | 4,160.0   | 4,085.7   | 3,978.4   | 674.6     | 659.1      | 647.3      | 630.3     | (3,851)        | 0.9305 | 0.9091   | 0.8929   | 0.8694  |
| 2022  | 5,543                                                             |                                                         | 5,543.00   | 164.80            | 12.97                           | 2,137.46                 | (3,406)                       | 4,799.2  | 4,581.0   | 4,418.8   | 4,189.8   | 1,850.6   | 1,766.5    | 1,704.0    | 1,615.7   | (3,406)        | 0.8658 | 0.8264   | 0.7972   | 0.7559  |
| 2023  | 5,793                                                             | in .<br>Antoine an ann an an an an an an an an an an an | 5,793.00   | 278.65            | 12.97                           | 3,614.09                 | (2,179)                       | 4,667.0  | 4,352.4   | 4,123.3   | 3,807.0   | 2,911.6   | 2,715.3    | 2,572.4    | 2,375.1   | (2,179)        | 0.8056 | 0.7513   | 0.7118   | 0.6572  |
| 2024  | 6,067                                                             |                                                         | 6,067.00   | 406.60            | 12.97                           | 5,273.60                 | (793)                         | 4,548.0  | 4,143.8   | 3,855.7   | 3,466.4   | 3,953.3   | 3,601.9    | 3,351.5    | 3,013.1   | (793)          | 0.7496 | 0.6830   | 0.6355   | 0.5714  |
| 2025  | 6,337                                                             |                                                         | 6,337.00   | 542.60            | 12.97                           | 7,037.52                 | 701                           | 4,420.3  | 3,934.8   | 3,595.8   | 3,147.9   | 4,908.9   | 4,369.7    | 3,993.3    | 3,495.9   | 701            | 0.6975 | 0.6209   | 0.5674   | 0.4967  |
| 2026  |                                                                   | 849.48                                                  | 849,48     | 611.50            | 12.97                           | 7,931.16                 | 7,082                         | 551.4    | 479.5     | 430.4     | 366.9     | 5,147.7   | 4,476.9    | 4,018.2    | 3,425.3   | 7,082          | 0.6490 | 0.5645   | 0.5066   | 0.4319  |
| 2027  |                                                                   | 849.48                                                  | 849.48     | 590.10            | 12.97                           | 7,653.56                 | 6,804                         | 513.0    | 435.9     | 384.3     | 319.0     | 4,622.2   | 3,927.5    | 3,462.1    | 2,873.8   | 6,804          | 0.6039 | 0.5132   | 0.4523   | 0.3755  |
| 2028  |                                                                   | 849.48                                                  | 849.48     | 569.44            | 12.97                           | 7,385.69                 | 6,536                         | 477.4    | 396.3     | 343.1     | 277.3     | 4,150.4   | 3,445.5    | 2,983.0    | 2,411.0   | 6,536          | 0.5620 | 0.4665   | 0.4039   | 0.3264  |
| 2029  |                                                                   | 849.48                                                  | 849.48     | 549.51            | 12.97                           | 7,127.19                 | 6,278                         | 444.2    | 360.3     | 306.3     | 241.1     | 3,726.8   | 3,022.6    | 2,570.1    | 2,022.8   | 6,278          | 0.5229 | 0.4241   | 0.3606   | 0.2838  |
| 2030  |                                                                   | 849.48                                                  | 849.48     | 530.28            | 12.97                           | 6,877.74                 | 6,028                         | 413.3    | 327.5     | 273.5     | 209.6     | 3,346.4   | 2,651.7    | 2,214.4    | 1,697.1   | 6,028          | 0.4866 | 0.3855   | 0.3220   | 0.2468  |
| 2031  | الم المحمد الم                                                    | 849,48                                                  | 849.48     | 511.72            | 12.97                           | 6,637.02                 | 5,788                         | 384.6    | 297.7     | 244.2     | 182.2     | 3,004.8   | 2,326.2    | 1,908.0    | 1,423.9   | 5,788          | 0.4527 | 0.3505   | 0.2875   | 0.2145  |
| 2032  |                                                                   | 849.48                                                  | 849.48     | 493.81            | 12.97                           | 6,404.72                 | 5,555                         | 357.9    | 270.7     | 218.0     | 158.4     | 2,698.1   | 2,040.7    | 1,643.9    | 1,194.6   | 5,555          | 0.4213 | 0.3186   | 0.2567   | 0.1865  |
| 2033  |                                                                   | 849.48                                                  | 849.48     | 476.53            | 12.97                           | 6,180.56                 | 5,331                         | 333.0    | 246.1     | 194.7     | 137.8     | 2,422.7   | 1,790.3    | 1,416.4    | 1,002.2   | 5,331          | 0.3920 | 0.2897   | 0.2292   | 0.1.622 |
| 2034  |                                                                   | 849.48                                                  | 849.48     | 459.85            | 12.97                           | 5,964.24                 | 5,115                         | 309.8    | 223.7     | 173.8     | 119.8     | 2,175.4   | 1,570.6    | 1,220.4    | 840.9     | 5,115          | 0.3647 | 0.2633   | 0.2046   | 0.1410  |
| 2035  |                                                                   | 849.48                                                  | 849.48     | 443.75            | 12.97                           | 5,755.49                 | 4,906                         | 288.3    | 203.4     | 155.2     | 104.1     | 1,953.3   | 1,377.8    | 1,051.5    | 705.5     | 4,906          | 0.3394 | 0.2394   | 0.1827   | 0.1226  |
| 2036  |                                                                   | 849.48                                                  | 849.48     | 428.22            | 12,97                           | 5,554.05                 | 4,705                         | 268.3    | 184.9     | 138.6     | 90.5      | 1,753.9   | 1,208.7    | 906.0      | 591.9     | 4,705          | 0.3158 | 0.2176   | 0.1631   | 0.1066  |
| 2037  |                                                                   | 849.48                                                  | 849.48     | 413.23            | 12.97                           | 5,359.66                 | 4,510                         | 249.6    | 168.1     | 123.7     | 78.7      | 1,574.9   | 1,060.4    | 780.6      | 496.6     | 4,510          | 0.2938 | 0.1978   | 0.1456   | 0.0927  |
| 2038  |                                                                   | 849.48                                                  | 849.48     | 398.77            | 12.97                           | 5,172.07                 | 4,323                         | 232.3    | 152.8     | 110.5     | 68.4      | 1,414.1   | 930.2      | 672.6      | 416.6     | 4,323          | 0.2734 | 0.1799   | 0.1300   | 0.0806  |
| 2039  |                                                                   | 849.48                                                  | 849,48     | 384.81            | 12.97                           | 4,991.05                 | 4,142                         | 216.1    | 138.9     | 98.6      | 59.5      | 1,269.8   | 816.1      | 579.5      | 349.5     | 4,142          | 0.2544 | 0.1635   | 0.1161   | 0.0700  |
| 2040  | ha tha an ann an Anna.<br>An Anna an Anna an Anna an Anna Anna An | 849.48                                                  | 849.48     | 371,35            | 12.97                           | 4,816.36                 | 3,967                         | 201.1    | 126.3     | 88.1      | 51.7      | 1,140.2   | 715.9      | 499.3      | 293.3     | 3,967          | 0.2367 | 0.1486   | 0.1037   | 0.0609  |
| 2041  |                                                                   | 849 48                                                  | 849.48     | 358.35            | 12.97                           | 4,647.79                 | 3,798                         | 187.1    | 114.8     | 78.5      | 45.0      | 1,02.3.8  | 628.1      | 430.2      | 246.0     | 3,798          | 0.2203 | 0.1351   | 0.0926   | 0.0529  |
| 2042  |                                                                   | 849.48                                                  | 849.48     | 345.81            | 12.97                           | 4,485.11                 | 3,636                         | 174.1    | 104.4     | 70.2      | 39.1      | 919.3     | 551.0      | 370.7      | 206.4     | 3,636          | 0.2050 | 0.1228   | 0.0826   | 0.0460  |
| 2043  |                                                                   | 849.48                                                  | 849.48     | 333.70            | 12.97                           | 4,328.13                 | 3,479                         | 1.62.0   | 94.9      | 62.7      | 34.0      | 825.5     | 483.4      | 319.4      | 173.2     | 3,479          | 0.1907 | 0.1117   | 0.0738   | 0.0400  |
| 2044  | en en en en en en en en en en en en en e                          | 849.48                                                  | 849.48     | 322.02            | 12.97                           | 4,176.65                 | 3,327                         | 150.8    | 86.2      | 56.0      | 29.6      | 741.2     | 424.0      | 275.2      | 145.3     | 3,327          | 0.1775 | 0.1015   | 0.0659   | 0.0348  |
| 2045  |                                                                   | 849.48                                                  | 849.48     | 310.75            | 12.97                           | 4,030.47                 | 3,181                         | 140.3    | 78.4      | 50.0      | 25.7      | 665.5     | 372.0      | 237.1      | 121.9     | 3,181          | 0.1651 | 0.0923   | 0.0588   | 0.0302  |
| 2046  |                                                                   | 849.48                                                  | 849.48     | 299.88            | 12.97                           | 3,889.40                 | 3,040                         | 130.5    | 71.3      | 44.6      | 22.3      | 597.6     | 326.3      | 204.3      | 102.3     | 3,040          | 0.1536 | 0.0839   | 0.0525   | 0.0263  |
| 2047  |                                                                   | 849.48                                                  | 849.48     | 289.38            | 12.97                           | 3,753.27                 | 2,904                         | 121.4    | 64.8      | 39.8      | 19.4      | 536.6     | 286.3      | 176.0      | 85.8      | 2,904          | 0.1430 | 0.0763   | 0.0469   | 0.0229  |
| 2048  |                                                                   | 849.48                                                  | 849.48     | 279.25            | 12.97                           | 3,621.91                 | 2,772                         | 113.0    | 58.9      | 35.6      | 16.9      | 481.8     | 251.2      | 151.6      | 72.0      | 2,772          | 0.1330 | 0.0693   | 0.0419   | 0.0199  |
| 2049  |                                                                   | 849.48                                                  | 849.48     | 269.48            | 12.97                           | 3,495.14                 | 2,646                         | 105.2    | 53.6      | 31.8      | 14.7      | 432.6     | 220.3      | 130.7      | 60.4      | 2,646          | 0.1238 | 0.0630   | 0.0374   | 0.0173  |
| 2050  |                                                                   | 849.48                                                  | 849.48     | 260.05            | 12.97                           | 3,372.81                 | 2,523                         | 97.8     | 48.7      | 28.4      | 12.8      | 388.5     | 193.3      | 112.6      | 50.7      | 2,523          | 0.1152 | 0.0573   | 0.0334   | 0.0150  |
| 2051  | ]<br>إستادة المدينية إ                                            | 849.48                                                  | 849.48     | 250.95            | 12.97                           | 3,254.76                 | 2,405                         | 91.0     | 44.3      | 25.3      | 11.1      | 348.8     | 169.6      | 97.0       | 42.5      | 2,405          | 0.1072 | 0.0521   | 0.0298   | 0.0131  |
| 2052  |                                                                   | 849.48                                                  | 849.48     | 242.16            | 12.97                           | 3,140.85                 | 2,291                         | 84.7     | 40.2      | 22.6      | 9.6       | 313.2     | 148.8      | 83.6       | 35.7      | 2,291          | 0.0997 | 0.0474   | 0.0266   | 0.0114  |
| 2053  | y<br>Chiyi Sarah                                                  | 849.48                                                  | 849.48     | 233.69            | 12.97                           | 3,030.92                 | 2,181                         | 78.8     | 36.6      | 20.2      | 8.4       | 281.3     | 130.5      | 72.0       | 29.9      | 2,181          | 0.0928 | 0.0431   | 0.0238   | 0.0099  |
| 2054  |                                                                   | 849.48                                                  | 849.48     | 225.51            | 12.97                           | 2,924.83                 | 2,075                         | 73.3     | 33.3      | 18.0      | 7.3       | 252.5     | 114.5      | 62.0       | 25.1      | 2,075          | 0.0863 | 0.0391   | 0.0212   | 0.0086  |
| 2055  |                                                                   | 849.48                                                  | 849.48     | 217.61            | 12.97                           | 2,822.46                 | 1,973                         | 68.2     | 30.2      | 16.1      | 6.3       | 226.8     | 100.4      | 53.5       | 21.1      | 1,973          | 0.0803 | 0.0356   | 0.0189   | 0.0075  |
| TOTAL | 20 216                                                            | 75 494 40                                               | 52 800 40  | 10.020            |                                 | <u> </u>                 | 112.777                       | 20 711 1 | 76 144 7  | 22.062.1  | 71 25 6 9 | 62 724 9  | 40.073.4   | 40.070.2   | 22.202.2  |                |        |          |          |         |

Note-1 : NEPRA has determined Weighted Average Cost of Capital (WACC) @ 15.02% per Annum in Tariff Determination for FY 2019-20.

Note-1 : 3 Months KIBOR on 16/04/2021 is 7.47 %.

Analysis at Discount Rate Benefit/ Cost Ratio (B/C Ratio) Net Present Value of Benefits (Rs. In Million) IRR on Net Benefits %age Payback Period (Years)

|      | 15.02% | 12.00% | 10.00% | 7.47%  |
|------|--------|--------|--------|--------|
|      | 1.512  | 1.710  | 1.869  | 2.111  |
|      | 10,936 | 17,008 | 22,729 | 33,024 |
| 29%  |        |        |        |        |
| 3.49 | [      |        |        |        |

## **ANNEXURE-20**

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# **PROFIT & LOSS STATEMENT**

#### MULTAN ELECTRIC POWER COMPANY

Profit & Loss Statement

|                                           | FY 2018-19 | FY 2019-20 | FY 2020-21 | FY 2021-22 | FY 2022-23 | FY 2023-24 | FY 2024-25   |
|-------------------------------------------|------------|------------|------------|------------|------------|------------|--------------|
|                                           | Actual     | Actual     | Projected  | Projected  | Projected  | Projected  | Projected    |
| Revenue                                   |            |            |            |            |            |            |              |
| Sales Revenue [Min Rs]                    | 165,348    | 199,343    | 235,810    | 218,357    | 255,906    | 271,155    | 302,280      |
| Subsidy [Min Rs]                          | 69,965     | 79,588     | 114,098    | 120,746    | 126,631    | 132,807    | 139,283      |
| Fuel Price Adjustment [Min Rs]            | -          | -          | -          | -          | -          | -          | 2 <b>4</b> 4 |
| Total Sales Revenue [Min Rs]              | 235,312    | 278,931    | 349,908    | 339,103    | 382,537    | 403,962    | 441,563      |
| Rental & Service Income [MIn Rs]          | 155        | 151        | 154        | 142        | 155        | 159        | 160          |
| Amortization of Deferred Credits [MIn Rs] | 2,759      | 2,952      | 3,188      | 3,484      | 3,818      | 4,144      | 4,478        |
| Other Income [Min Rs]                     | 3,657      | 3,991      | 4,335      | 4,422      | 4,688      | 4,982      | 5,285        |
| Total Revenue [Min Rs]                    | 241,884    | 286,025    | 357,585    | 347,151    | 391,198    | 413,247    | 451,486      |
| Operating Cost                            |            |            |            |            |            |            |              |
| Power Purchase Cost [Min Rs]              | 225,725    | 248,407    | 240,923    | 298,973    | 336,572    | 351,993    | 383,169      |
| O&M Expenses [Min Rs]                     | 22,814     | 26,191     | 26,303     | 30,896     | 35,029     | 39,382     | 44,251       |
| Depreciation [Min Rs]                     | 4,693      | 5,121      | 5,673      | 6,360      | 7,115      | 7,894      | 8,67         |
| Amortization [Min Rs]                     | 17         | 10         |            |            | ,          |            |              |
| Supplemental Charges [Min Rs]             | 2,171      | 1,848      | 2,453      | 2,632      | 2,803      | 2,986      | 3,180        |
| *Provision for Bad Debt [Min Rs]          | 6,955      | 584        | -          | : -        |            | -          | •            |
| Total Operating Cost [Min Rs]             | 262,376    | 282,161    | 275,351    | 338,861    | 381,519    | 402,255    | 439,286      |
| EBIT [Min Rs]                             | (20,492)   | 3,864      | 82,234     | 8,290      | 9,679      | 10,992     | 12,199       |
| Financial Charges (Min Rs)                | 2,310      | 2,212      | 2,007      | 1,739      | 1,496      | 1,272      | 1,094        |
| Earning before Tax (EBT) [Min Rs]         | (22,802)   | 1,652      | 80,227     | 6,550      | 8,182      | 9,719      | 11,105       |
| Tax [Min Rs]                              |            | 1,276      |            |            |            |            |              |
| Earning after Tax (EAT) [Min Rs]          | (22,802)   | 376        | 80,227     | 6,550      | 8,182      | 9,719      | 11,105       |

# **BALANCE SHEET**

#### MULTAN ELECTRIC POWER COMPANY LTD. BALANCE SHEET AS ON JUNE, 30,

|                                              | · · · · · · · · · · · · · · · · · · · | ·····                                                                                                           |            |            |            |            | Rs. In Million                                                                                                  |
|----------------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|-----------------------------------------------------------------------------------------------------------------|
|                                              | A.S. (DNI 2046                        | AC ON 20th                                                                                                      |            |            |            |            |                                                                                                                 |
| Description                                  | AS UN 30th                            | AS ON 30th                                                                                                      | AS ON 30th | AS ON 30th | AS ON 30th | AS ON 30th | AS ON 30th                                                                                                      |
| · · · · · · · · · · · · · · · · · · ·        | _ 1 June, 2019                        | <u>  June, 2020</u>                                                                                             | June, 2021 | June, 2022 | June, 2023 | June. 2024 | June, 2025                                                                                                      |
| Intangible Fixed Assets                      | 10 102                                | 5                                                                                                               | ;          |            |            |            |                                                                                                                 |
| Net Fixed Assets in Operations               | 97.991                                | 102 632                                                                                                         | 115 691    | 130 212    | 146 035    | 161 783    | 177 141                                                                                                         |
| Total Net Fixed Assets in Operations         | 98,001                                | 102,632                                                                                                         | 115,691    | 130,212    | 146,035    | 161,783    | 177,14                                                                                                          |
| Capital Work in Progress                     | 10 900                                | 15.040                                                                                                          | 12 004     | 10.000     | 40.400     | 10 100     | 10 - 10 - 2                                                                                                     |
| Long Term Loans to Employees                 | 10,055                                | 15,040                                                                                                          | 13,091     | 10,202     | 18,100     | 18,432     | 18,732                                                                                                          |
| Deferred Cost & Long Term Deposits           | 0.05                                  | 0.05                                                                                                            | 0.05       | 0.05       | 196        | 251        | - 311                                                                                                           |
| Boloned obstra Long Term Deposito            | 10.00                                 | 15 122                                                                                                          | 13 803     | 16 433     | 19 206     | 19 692     | 10.03                                                                                                           |
| Current Assets                               | 10,000                                |                                                                                                                 | 15,005     | 10,455     | 10,290     | 10,003     | 19,043                                                                                                          |
| Stores & Spares                              | 8 103                                 | 6 329                                                                                                           | 6 265      | 6 140      | . 6.020    | 6 6 9 7    | 7 155                                                                                                           |
| Trade Debts                                  | 29.489                                | 51 202                                                                                                          | 50,690     | 50 183     | 40 681     | 62,007     | 57 0/9                                                                                                          |
| Advances, Prepayments, Other Receivables     | 350                                   | 321                                                                                                             | 20,838     | 20,400     | 20 423     | 21,036     | 21 667                                                                                                          |
| Tariff Subsidy (Receivable from GoP)         | 57 165                                | 94 229                                                                                                          | 92 344     | · 87 727   | 84 218     | 82.533     | 85,000                                                                                                          |
| Receivable from Associated Companies& Others | 6 783                                 | 4 779                                                                                                           | 4 683      | 4 590      | 4 498      | 4 543      | 4 670                                                                                                           |
| Cash & Bank Balances                         | 10,458                                | 17 368                                                                                                          | 17 715     | 17 892     | 18 429     | 18 798     | 19 926                                                                                                          |
| Total Current Assets                         | 112,348                               | 174.227                                                                                                         | 192.536    | 187,162    | 183.328    | 187 252    | 196 384                                                                                                         |
| Total Assets                                 | 221,329                               | 291,981                                                                                                         | 322,029    | 333,806    | 347,659    | 367,718    | 392,568                                                                                                         |
|                                              |                                       |                                                                                                                 |            |            |            |            | ł                                                                                                               |
| Subscribed Equity                            | 42,161                                | 42,161                                                                                                          | 42,161     | 42,161     | 42 161     | 42 161     | 42 161                                                                                                          |
| Unappropriated Profit                        | (133,587)                             | (127,537)                                                                                                       | (57,549)   | (56,885)   | (53,479)   | (47,410)   | (39,667)                                                                                                        |
| Total Equity                                 | (91,426)                              | (85,376)                                                                                                        | (15,388)   | (14,724)   | (11,318)   | (5,249)    | 2,494                                                                                                           |
| Long Term Liability                          |                                       |                                                                                                                 |            |            |            |            |                                                                                                                 |
| Security Deposits                            | 9 180                                 | 10 179                                                                                                          | 10 688     | 11 116     | 11 449     | 10.877     | 9 7 8 9                                                                                                         |
| Employee Retirement Benefits                 | 79,175                                | 80 583                                                                                                          | 99,011     | 115 887    | 132 847    | 150 113    | 168,869                                                                                                         |
| Sukok etc.                                   |                                       |                                                                                                                 |            | 110,001    | 102,047    | 100,110    | 100,000                                                                                                         |
| Deferred Credits                             | 57,195                                | 59,724                                                                                                          | 64.550     | 69.870     | 75 600     | 81 186     | 86 729                                                                                                          |
| Total Long Term Loan                         | 8.811                                 | 8,118                                                                                                           | 7.227      | 6.334      | 5 438      | 4 604      | 4 152                                                                                                           |
| Total Long Term Liability                    | 154,362                               | 158,604                                                                                                         | 181,476    | 203,207    | 225,334    | 246,780    | 269,540                                                                                                         |
| Current Liability                            |                                       | 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - | t And      |            |            |            | an an Araba<br>Alaman                                                                                           |
| Current Maturity on Long Torm Loops          | 5 276                                 | 6 020                                                                                                           | 6 000      | 7.040      | 0.744      | 0.545      | 0.007                                                                                                           |
| Accrued Mark up                              | 0,070                                 | 10,032                                                                                                          | 10 240     | 7,010      | 0,711      | 9,545      | 9,997                                                                                                           |
| Provision for Taxation & WPPE                | 9,293                                 | 1 276                                                                                                           | 1 276      | 9,737      | 9,250      | 0,/0/      | 7,469                                                                                                           |
| Receipt Against Deposit work                 | 20 723                                | 25 802                                                                                                          | 1,270      | 20 177     | 20.000     | 20.465     | 07 44 4                                                                                                         |
| Pavable to NTDC/CPPA                         | 104.090                               | 155 443                                                                                                         | 27,093     | 20,1/1     | 29,000     | 30,465     | 27,114                                                                                                          |
| Creditors Accrued and Other Liabilities      | 18 011                                | 100,440                                                                                                         | 40 457     | 22 9 4 9   | 02,525     | J0,272     | 49,519                                                                                                          |
| Total Current Liability                      | 158 393                               | 218 752                                                                                                         | 155 941    | 145 374    | 133 642    | 126 187    | 20,434                                                                                                          |
| · · · · · · · · · · · · · · · · · · ·        |                                       | 2,0,,02                                                                                                         | 100,0-11   | 170,027    | 100,044    | 140,107    | 120,004                                                                                                         |
| Total Liabilities and Commitments            | 312,755                               | 377,356                                                                                                         | 337,417    | 348,530    | 358,976    | 372,967    | 390,074                                                                                                         |
| Total Liabilities and Equity                 | 221,329                               | 291,981                                                                                                         | 322,029    | 333,806    | 347,659    | 367,718    | 392,568                                                                                                         |
|                                              |                                       |                                                                                                                 |            |            |            |            | A DESCRIPTION OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE |

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## **ANNEXURE-6**

# YEAR WISE SINGLE LINE DIAGRAM

# SINGLE LINE DIAGRAM FOR FY: 2020-21 TO 2024-25

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### O LOAD FLOW FOR DIIPO MEPCO PEAK LOAD 2021 WITHOUT ADDITIONAL REINFORCEMENT







LOAD FLOW FOR DIIP MEPCO PEAK LOAD 2021 WITHOUT ADDITIONAL REINFORCEMENT AL.

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## LOAD FLOW FOR DIP MEPCO PEAK LOAD 2021 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2021-1.4

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#### LOAD FLOW FOR DIIP MEPCO PEAK LOAD 2021 WITHOUT ADDITIONAL REINFORCEMENT



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## DEPCO PEAK LOAD 2021 WITHOUT ADDITIONAL REINFORCEMENT

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Exhibit-2021-1.6





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## → LOAD FLOW FOR DIIP → MEPCO PEAK LOAD CASE 2021 WITH ADDITIONAL REINFORCEMENT

Exhibit-2021-2.2

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LOAD FLOW FOR DIIP MEPCO PEAK LOAD CASE 2021 WITH ADDITIONAL REINFORCEMENT alling

### **O**LOAD FLOW FOR DIIP **O** MEPCO PEAK LOAD CASE 2021 WITH ADDITIONAL REINFORCEMENT

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Exhibit-2021-2.4



#### LOAD FLOW FOR DIP MEPCO PEAK LOAD CASE 2021 WITH ADDITIONAL REINFORCEMENT





## MEPCO PEAK LOAD CASE 2021 WITH ADDITIONAL REINFORCEMENT



Exhibit-2021-2.6

### LOAD FLOW FOR DIIP MEPCO PEAK LOAD CASE 2022 WITHOUT ADDITIONAL REINFORCEMENT Exhibit-2022-3.1



#### DAD FLOW FOR DIIP MEPCO PEAK LOAD CASE 2022 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2022-3.2

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#### LOAD FLOW FOR DIIP MEPCO PEAK LOAD CASE 2022 WITHOUT ADDITIONAL REINFORCEMENT

# MEPCO PEAK LOAD CASE 2022 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2022-3,4

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#### LOAD FLOW FOR DIIP MEPCO PEAK LOAD CASE 2022 WITHOUT ADDITIONAL REINFORCEMENT



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#### **DOAD FLOW FOR DIIP** MEPCO PEAK LOAD CASE 2022 WITHOUT ADDITIONAL REINFORCEMENT



t -----Exhibit-2021-3.6

#### LOAD FLOW FOR DIIP MEPCO PEAK LOAD CASE 2022 WITH ADDITIONAL REINFORCEMENT

Exhibit-2022-4.1



### LOAD FLOW FOR DIIP O MEPCO PEAK LOAD CASE 2022 WITH ADDITIONAL REINFORCEMENT

Exhibit-2022-4.2





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#### LOAD FLOW FOR DIIP MEPCO PEAK LOAD CASE 2022 WITH ADDITIONAL REINFORCEMENT

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LOAD FLOW FOR DIIP

**MEPCO PEAK LOAD CASE 2022 WITH ADDITIONAL REINFORCEMENT** 

Exhibit-2022-4.4

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#### LOAD FLOW FOR DIIP **MEPCO PEAK LOAD CASE 2022 WITH ADDITIONAL REINFORCEMENT**





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#### LOAD FLOW FOR DIIP **MEPCO PEAK LOAD CASE 2023 WITHOUT ADDITIONAL REINFORCEMENT** Exhibit-2023-5.1



## **COAD FLOW FOR DIIP** MEPCO PEAK LOAD CASE 2023 WITHOUT ADDITIONAL REINFORCEMENT Exhibit-2023-5.2



Exhibit-2023-5.3



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#### **D**AD FLOW FOR DIIP **MEPCO PEAK LOAD CASE 2023 WITHOUT ADDITIONAL REINFORCEMENT** Exhibit-2023-5.4

карсо KOTSULTAN KOTADU-O KADODI E LAYYAH KAROR L.E-T2 0 530.0 95.3 -95.2 19.9 -19.6 14.9 -14 8 21 8 -21. -20 -12.7 127 -13.9 -10.4 .6.2 KAPCQ220 KAROR L.E-T1 -85.2 -10.8 19.9 44.0 -14.8 20.8 -20.6 10.0 -12 -13.9 10.9 -6.1 TAUNSA 133.6 -3.1 SHAD.LND -4.8 KOTSULTAN-T2 1 AYYAH T-1 LAYYAH T-2 KOTSULTAN-T CHOKAZAM D.I.KHAN 1.5 1.5 11.4 -3.5 -R4 5 69 9 87.4 -68.7 39.8 -172 11.2 11.2 -6,5 11.2 -6.5 -11.1 -11.1 -11.3 -0.£ -4.6 -16 11.9 18.5 FATEHPUR TAUNSA T-1 FATEPUR T-2 SHA LND T-2 SHALLND T-1 12.4 12. 23.5 -23.2 136.5 -2.1 -09 95 -10.6 17 10.8 -9.2 10 B 11.0 11.1 -7 0 135,3 -2.4 -10.6 -4 6 134.3 -5.2 TAUNSA T-2 FATEHPUR T-1 CHOKAZAM T1 -11 132.8 -7.3 10.8 -10 10.9 -6.0 133.3 -3.1 -10.6 11,3 -6.0 KOTADU-O T-2 KOTADU-O T-3 . -4.2 11.4 T-3 N.A.WALI T-PAROVA PAROVA MZFRGARH T-3 MZFRGARH MZFRGARH -86.2 68.8 -66 0127 3 11.1 -4 8 GUJRAT.S 10 1 12.8 -14 F 18.1 9.2 10.7 10.7 -12.4 N.A.WALLT-2 D I.KH GOMAL -69,0 90.0 -12.4 38.7 -27.3 -27.3 133.5 -9.5 13.9 17.5 MZFRGARH T-2 136.1 -4.0 11.2 10.7 KOTADU O T-4 -89.0 90.0 93.1 -89. 12.5 13.9 -6.0 12.5 11.3 -5.5 138.5 -1.0 CHAUBARA 80.0 -79 -51.5 52.9 15.5 +14.6 10.5 -8. CHOKMNDA 80.0 -79.2 T-AH1M -8.5 MLN-II 135.0 -1:5 CHAUBARA NAWANKOT -1.7 17NWANKOT M GARH NEW 4.5 -5.5 NAWANKOT T-1 M.GARH-N 5.5 -26 7 27 58. 15.0 -16 1 15.8 16 5 -0.8 6.8 GUJRAT,S T1 19.0 81233.6 18.8 .0 228.4 11.1 лнім CHOKMNDA T-2 CHOKMNDA T-1 -6.9 68.0 1.5 1,3 -2.3 67.7 6 A 1 -67.6 11,1 -6.9 11.2 -3.6 11.3 -3.4 1.0 0.3 GUJRAT,S 73 0.2 -0.3 137.3 136.7 -0.7 25.6 -25.5 137,3 KOTADDU 11.2 -0.9 T-RANGPR 18.8 -0.9 -6.2 GUJRAT.S T2 RANGPUR Τ1 D.G.KHAN -7.4 7.4 -7.3 25.6 -25.5 11.1 -5.5 -2.9 2.9 CHAUBARA T-2 135.5 -4.3 -30 11.0 -6.6 6.8 18.8 -18.9 138.3 -1.3 11.2 -1.8 65.8 -1.9 68.7 -2.0 67,6 -2,5 KHANGARH 136.2 1.8 156.6154.6 D.G.KHAN 20.7 -11 133.5 -5.9 6 KHANGARH KHANGARH T-1 FATMA ENERGY 10.6 -15.7 10.5 -14.9 53.8 0.0R (2)<mark>53.6</mark> (2)0.65 JATOIJNB ALI PUR -86.1 -53.1 0.0 10 3 78 ALIPUR T-3 MEHRIKHAS 10. KHRPRSDT 73.6 -73.0 -5.6 12.3 -0.3 KHPRSDT T-2 -28 -10.5 10,7 64.7 2) -63 6 -20.9 -28.4 T-3 10.7 5.5 FAZAL CLOTH 6 0 -20.3 131.0 MEHRKHAS T-1 MEHRKHAS T-2 20.3 -20.3 20.3 -10.6 🔹 6.5 134.6 -3.1 11.0 -17.7 -6666 11.0 -17.7 DMR WALA 133.8 -6.9 134.6 KHRPRSDT ' 38.2 -37.9 48.0 -47. -27.7 12.8 -12.7 -3.2 -12.0 22.8 23.4 121 -191 185 -184 17. 10.7 -20.6 129,2 -17,9 JATOLĮNB T-JATO!JNB T-1 MEHRKHAS T-3 DMR WALA T-1 DMR WALA T-2 ALI PUR T-1 ALIPUR T-2 SCALETEND - WHETE 10.0 -29,7 11.0 -21.1 10.6 11,1 10,3 10.9 -20.9 129,1 -12.8 128.0 -15.8 -19.2 128.6 -17.5 -22.8 -18.6 128.5 -13,8

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Exhibit-2023-5.6

Exhibit-2023-6.1



## LOAD FLOW FOR DII MEPCO PEAK LOAD CASE 2023 WITH ADDITIONAL REINFORCEMENT Exhibit-2023-6.2





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### LOAD FLOW FOR DIIP MEPCO PEAK LOAD CASE 2023 WITH ADDITIONAL REINFORCEMENT

## LOAD FLOW FOR DIP MEPCO PEAK LOAD CASE 2023 WITH ADDITIONAL REINFORCEMENT Exhibit-2023-6.4









Exhibit-2023-6.6

Exhibit-2024-7.1



Exhibit-2024-7.2





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# AD FLOW FOR DIIP

Exhibit-2024-7.4

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Exhibit-2024-8.1

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Exhibit-2024-8.2



Exhibit-2024-8.3



Exhibit-2024-8.4



## COAD FLOW FOR DIP



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Exhibit-2024-7.6

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. Exhibit-2024-8.5



## MEPCO PEAK LOAD CASE 2024 WITH ADDITIONAL REINFORCEMENT







## **AOAD FLOW FOR DIIP** MEPCO PEAK LOAD CASE 2025 WITHOUT ADDITIONAL REINFORCEMENT Exhibit-2025-9.2





## LOAD FLOW FOR DIIP











Exhibit-2025-10.1



**20AD FLOW FOR DIIP MEPCO PEAK LOAD CASE 2025 WITH ADDITIONAL REINFORCEMENT** Exhibit-2025-10.2 LODHRAN SAMASATA MUB-PUR B.W.P-N AHMOPR P AHMDPR F 1-3 AHMOPR.E T4 MUB-PUR-MUB-PUR-T2 SAMASATA JALALPWL 48.0 -47 6 AMASATA T-1 25 0.977 0.960 10.6 0.960 0.959 -25.0 J.P.W T-2 10.5 10.5 8WPN-2 LODHRAN-2 1.040 48.5 -48.2 23.2 -23.2



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1.032 11.4

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Exhibit-2025-10.3

LOAD FLOW FOR DIIP

**MEPCO PEAK LOAD CASE 2025 WITH ADDITIONAL REINFORCEMENT** 

Exhibit-2025-10.4







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## MEPCO PEAK LOAD CASE 2025 WITH ADDITIONAL REINFORCEMENT



Exhibit-2025-10.6
# **ANNEXURE-7**

# YEAR WISE VOLTAGE PROFILE

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS(R)E MON, JAN 25 2021 11:33 MEPCO-2020-REVISED-DIIP-2021-WITHOUT

#### BUSES WITH VOLTAGE GREATER THAN 2.0000:

BUS# X-- NAME --X BASKV AREA V(PU) V(KV) BUS# X-- NAME --X BASKV AREA V(PU) V(KV)

\* NONE \*

#### BUSES WITH VOLTAGE LESS THAN 1.7000:

| BUS#  | X NAME>     | K BASKV | AREA | V(PU)  | V(KV)  | BUS# | X NAME>      | K BASKV | AREA | V(PU)  | V(KV)  |
|-------|-------------|---------|------|--------|--------|------|--------------|---------|------|--------|--------|
| 104   | T-OFF BUKSH | 466.000 | 6    | 0.8836 | 58.318 | 304  | т-1          | 11.000  | 6    | 0.8856 | 9.742  |
| 401   | т-3         | 11.000  | 6    | 0.9762 | 10.738 | 502  | т-3          | 11.000  | 6    | 0.9938 | 10.932 |
| 529   | PARCO       | 220.00  | 6    | 1.0247 | 225.44 | 5282 | FATMA ENERGY | Y132.00 | 6    | 1.0000 | 132.00 |
| 5283  | FAZAL CLOTH | 132.00  | 6    | 0.9993 | 131.91 | 6030 | QADIRABD     | 132.00  | 6    | 1.0160 | 134.11 |
| 6050  | BNGAHYAT    | 132.00  | 6    | 1.0037 | 132.49 | 6070 | YOUSFWLA     | 132.00  | 6    | 1.0070 | 132.93 |
| 6080  | SAHIWALN    | 132.00  | 6    | 1.0005 | 132.06 | 6090 | SAHIWAL-O    | 132.00  | 6    | 0.9962 | 131.50 |
| 609.5 | SAHIWAL III | 132.00  | 6    | 0.9922 | 130.97 | 6100 | NOORPUR      | 132.00  | 6    | 0.9980 | 131.73 |
| 6120  | ΡΑΚΡΑΤΑΝ    | 132.00  | 6    | 0.9558 | 126.17 | 6130 | HARAPPA      | 132.00  | 6    | 0.9755 | 128.77 |
| 6140  | CHCHWTNI    | 132.00  | 6    | 0.9741 | 128.59 | 6149 | KASOWAL132   | 132.00  | 6    | 0.9737 | 128.52 |
| 6150  | SH.FAZAL    | 132.00  | 6    | 0.9226 | 121.78 | 6160 | BUREWALA     | 132.00  | 6    | 0.8965 | 118.33 |
| 6162  | BREWLA-0    | 132.00  | 6    | 0.8746 | 115.45 | 6169 | VEHARI-N     | 132.00  | 6    | 0.9489 | 125.26 |
| 6170  | VEHARI-O    | 132.00  | 6    | 0.9440 | 124.61 | 6175 | LUDDEN       | 132.00  | 6    | 0.9267 | 122.33 |
| 6178  | KARAMPUR    | 132.00  | 6    | 0.9154 | 120.84 | 6180 | ARIFWALA     | 132.00  | 6    | 0.9091 | 120.01 |
| 6182  | KAMIRWALA   | 132.00  | - 6  | 0.9386 | 123.90 | 6190 | BWL NAGR     | 132.00  | 6    | 0.9026 | 119.14 |
| 6191  | HOTA        | 132.00  | ÷6   | 0.8963 | 118.31 | 6200 | QABULA       | 132.00  | 6    | 0.8920 | 117.75 |
| 6210  | SAHUKA      | 132.00  | 6    | 0.8453 | 111.58 | 6220 | HASILPUR     | 132.00  | 6    | 0.9289 | 122.62 |
| 6221  | CHUNAWALA   | 132.00  | 6    | 0.9276 | 122.45 | 6230 | CHISTIAN-O   | 132.00  | 6    | 0.9299 | 122.75 |
| 6231  | CHSTAN-N    | 132.00  | 6    | 0.9363 | 123.59 | 6232 | DHARWALA132  | 132.00  | 6    | 0.9238 | 121.94 |
| 6250  | MAN-KOT     | 132.00  | 6    | 0.9934 | 131.13 | 6410 | HASILPUR     | 66.000  | 6    | 0.9130 | 60.259 |
| 6415  | CHISTIAN    | 66.000  | 6    | 0.8626 | 56.932 | 6419 | L.SOHANRA    | 132.00  | 6    | 0.9530 | 125.80 |
| 6420  | BEST-GREEN  | 132.00  | - 6  | 1.0000 | 132.00 | 6421 | K.P.TOMI     | 132.00  | 6    | 0.9374 | 123.74 |
| 6422  | APPOLO-SOLA | 132.00  | 6    | 0.9988 | 131.84 | 6462 | NOORSAR      | 132.00  | 6    | 0.9240 | 121.97 |
| 6482  | MNCHNBAD    | 132.00  | 6    | 0.8937 | 117.97 | 6488 | BWL NAGAR-2  | 132.00  | 6    | 0.9180 | 121.18 |
| 6489  | DONGA BNGA  | 132.00  | 6    | 0.9051 | 119.47 | 6491 | MCLD.GNJ     | 132.00  | 6    | 0.8880 | 117.22 |
| 6501  | HARONABD    | 132.00  | 6    | 0.9076 | 119.80 | 6512 | FAQIRWLI     | 132.00  | 6    | 0.8666 | 114.40 |
| 6519  | KHICHIWALA  | 132.00  | 6    | 0.8415 | 111.07 | 6521 | FORTABAS     | 132.00  | 6    | 0.8255 | 108.97 |
| 6666  | MULTAN-N    | 132.00  | 6    | 1.0038 | 132.50 | 7000 | MIANCHNU     | 132.00  | 6    | 0.9553 | 126.10 |
| 7001  | CHAK-83-132 | 132 00  | - 6  | 0.9721 | 128.32 | 7002 | KASSOWAL     | 132.00  | 6    | 0.9878 | 130.39 |

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|----------|------|--------------|---------|-------------|------------|--------------------------------|----------|---------------------------------------------------|
|          | 7006 | HEAD SIDHNAI | 132.00  | 6 0.9313    | 122.94     | 7010 КАСНАКНИ                  | 132.00   | 6 0.9533 125.83                                   |
|          | 7020 | KHANEWAL     | 132.00  | 6 0.9675    | 127.71     | 7029 FAUJI-K                   | 132.00   | 6 1.0000 132.00                                   |
|          | 7030 | KABIRWLA     | 132.00  | 6 0.9574    | 126.38     | 7032 MP.PAHOR                  | 132.00   | 6 0.9456 124.82                                   |
|          | 7040 | GARHMORE     | 132.00  | 6 0.9320    | 123.03     | 7042 B-BANGLA                  | 132.00   | 6 0.9357 123.51                                   |
|          | 7050 | TEHANTAN     | 132.00  | 6 0.9329    | 123.15     | 7060 CHAK.211                  | 132.00   | 6 0.8996 118.75                                   |
|          | 7070 | MATIST       | 132.00  | 6 0.8870    | 117.08     | 7075 MUKHDM.R                  | 132.00   | 6 0.9433 124.52                                   |
|          | 7100 | P GATE-1     | 132.00  | 6 0.9969    | 131,59     | 7109 P.GATB-2                  | 132.00   | 6 0.9793 129.27                                   |
|          | 7110 | RASTIMIK     | 132 00  | 6 0.9600    | 126.72     | 7115 MTRAN PUR                 | 132.00   | 6 0.9619 126.97                                   |
|          | 7120 |              | 132.00  | 6 0 9904    | 130 73     | 7123 BUKSHAN 66K               | 166 000  | 6 0 8832 58 293                                   |
| •        | 7125 |              | 132.00  | 6 0 9612    | 126 88     |                                | 132 00   | 6 0 9859 130 13                                   |
|          | 7120 | DWDN_2       | 132.00  | 6 0 9860    | 130 16     | 7139 B W P-N                   | 132.00   | 6 1 0203 134 69                                   |
|          | 71/0 |              | 132.00  | 6 1 0030    | 122 20     | 7145 BOUD CANTT                | 132.00   | 6 1 0115 133 51                                   |
|          | 7140 |              | /132 00 | 6 1 0010    | 132.13     |                                | 132.00   | 6 0 9195 121 38                                   |
|          | 7140 |              | 122.00  | 6 0 0002    | 121 80     |                                | 132.00   | 6 0 0030 110 31                                   |
|          | 7150 |              | 122.00  | 6 0 0755    | 128 76     |                                | 132.00   | 6 0 9612 126 87                                   |
|          | 7160 |              | 122.00  | 6 0 0718    | 170 70     |                                | 132.00   | 6 0.9012 120.07                                   |
|          | 7170 |              | 122.00  | 6 1 0000    | 122 00     | 7180 EEDOZA                    | 132.00   | 6 1 0040 132 53                                   |
|          | 7105 | KYK-PP       | 122.00  |             | 120 42     | 7100 FERUZA                    | 122.00   | 6 1 0000 132.00                                   |
| ្ន       | 7100 | KHANBELA     | 122.00  | 6 0 0078    | 121 71     | 7190 HAMZA-FP                  | 122.00   | 6 0 0815 120 55                                   |
|          | 7200 |              | 122.00  | 0 0.9978    | 120 00     | 7210 MWQKSHIA                  | 122.00   | 6 1.0160 124 11                                   |
|          | 7220 |              | 122.00  | 6 0 0700    | 120.25     | 7221 RTR-NEW                   | 122.00   | 6 1 0020 137 27                                   |
|          | 7223 | K.Y.KHNZ     | 122.00  | 0 0.9799    | 122 80     | 7230 SADIQABD                  | 132.00   | $6 \pm 0042 \pm 32.27$                            |
|          | 7231 | SANJARPUR    | 132.00  | 6 1 0001    | 102.0U     | 7232 JUW II USM I<br>7327 DIE  | 122.00   | 6 0 0008 121 07                                   |
|          | 7233 |              | 122.00  | 6 0 0007    | 120 70     | 7250 MN KLL DD                 | 122.00   | 6 1 0002 122 02                                   |
| 2        | 7240 | J.D.WALL     | 122.00  | 0 0.9907    | 120.70     | 7250 MN DC DD                  | 122.00   | 6 0 0002 132.02                                   |
|          | 7200 | WAPDATWN     | 132.00  | 6 0 0071    | 121 62     | 7200 MIN. DS. RU               | 122.00   | $6 0.9037 \pm 23.03$                              |
| 2        | 7201 | PUNJAB HUSNO |         | 0 0.9971    |            | 7202 BUCH VILLAS               | 122.00   | 6 0,9823 129.00                                   |
| er<br>Er | 7205 |              | 122.00  | 6 0 0 0 0 0 | 120.42     | 7270 MENTIND                   | 122.00   | $6 0.9800 \pm 30.42$                              |
| -/       | 7275 | CUCA CULA    | 122.00  | 6 0 0900    | 120.42     | 7273 JURAJ MIANI               | 122.00   | 6 0.3043 123.33                                   |
|          | 7273 |              | 122.00  | 6 0 0854    | 120.02     |                                | 132.00   | 6 0 0876 120 70                                   |
|          | 7200 |              | 122.00  | 6 0 0816    | 120.00     | 7203 QASIMPUR<br>7288 SUUJADAD | 132.00   | 6 0.3820 123.70                                   |
|          | 7207 |              | 122.00  | 6 0 0460    | 127.00     | 7200 MESCO                     | 132.00   | 6 0 0732 128 46                                   |
|          | 7200 |              | 122.00  | 6 1 0400    | 120 17     | 7230 MESCO                     | 132.00   | 6 1 0224 134 96                                   |
|          | 7200 | KAPCO        | 122.00  | 6 1 0210    | 126 20     | 7320 GUJKATIS                  | 132.00   | $6 \ 1 \ 0223 \ 135 \ 08$                         |
|          | 7323 |              | 122.00  | 0 1.0310    | 122 10     | 7320 KDGASHER                  | 122.00   | 6 1 0478 128 21                                   |
|          | 7330 |              | 132.00  | 0 1.0013    | 126 20     | 7331 KUTADU~U                  | 122.00   | $0 \pm .0470 \pm 30.31$                           |
|          | 1332 | N.A.WALI     | 122.00  | 6 1.0510    | 122 71     | 7225 KOTCHLTAN                 | 122.00   | $6 \ 1 \ 0.9930 \ 131.10$                         |
|          | 1004 | M GARH NEW   | 122.00  | 6 1 0206    | 124 72     | 7333 KUISULIAN                 | 122.00   | 6 1 0000 132 00                                   |
|          | 1330 | KAKUK LIE    | 122.00  | 6 1 00200   | 122 51     | 7370 MEUDVUAS                  | 132.00   | 6 0 0103 120 16                                   |
|          | 7339 |              | 122.00  | 6 0 2010    | 117 67     | 7340 MERKKRAS                  | 132.00   | 6 0 8457 111 62                                   |
|          | 7330 | UMK WALA     | 122.00  | C 0 0.0910  | 111 05     | 7300 JAIULINB                  | 132.00   | 6 1 0185 134 44                                   |
|          | 7370 | KHKPKSDI     | 122.00  | 0 0.0413    | 122 06     | 7353 SHAD.LND                  | 132.00   | 6 0 0807 130 64                                   |
|          | 7400 | TAUNSA       | 122.00  | 6 0 000E    | 120 62     | 7433 PARCU<br>7440 CHORMON     | 132.00   | 6 1 0302 137 12                                   |
|          | /430 | I-PAKUO -    | 1.57.00 | 0 0.3033    | TJA.07     | 1440 LAUNMINDA                 | TJC * 00 | 0 - 1 + 0 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 |

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|------|-------|-----------------------------|---------|--------|--------|---------|------------|-----------|----------------|--------|--------|-----------|
|      | 7442  | T-AHTM                      | 132.00  | 6      | 1.0427 | 137.63  | 7443       | AHTM      | 132.00         | 6      | 1.0426 | 137.63    |
| · ·. | 7450  | CHAUBARA                    | 132.00  | 6      | 1.0381 | 137.03  | 7456       | CHOKAZAM  | 132.00         | 6      | 1.0298 | 135.93    |
|      | 7459  | KHANGARH                    | 132.00  | -6     | 0.9577 | 126.42  | 7460       | D.G.KHAN  | 132.00         | 6      | 0.9927 | 131.04    |
|      | 7462  | MDC-DGK                     | 132.00  | - 6    | 1.0024 | 132.31  | 7463       | CPC-DGK   | 132.00         | 6      | 0.9944 | 131.26    |
|      | 7465  | КОТСНИТА                    | 132.00  | 6      | 0.9962 | 131.50  | 7466       | T-ATM     | 132.00         | 6      | 0.9941 | 131.22    |
|      | 7467  | ATM                         | 132.00  | Ğ      | 0.9940 | 131.21  | 7469       | СНОТІ 132 | 132.00         | Ġ      | 0.9996 | 131.94    |
|      | 7470  | ROJHAN                      | 132.00  | -<br>6 | 1.0178 | 134.35  | 7477       | ZENFA     | 132.00         | 6      | 1.0390 | 137.15    |
|      | 7580  | CMNT.FCT                    | 132.00  | 6      | 0.9923 | 130.98  | 7590       | SKHISRWR  | 132.00         | 6      | 1.0010 | 132.13    |
|      | 7650  | L.SUHANRA132                | 2132.00 | Ğ      | 1.0045 | 132.59  | 7781       | YAZMAN    | 132.00         | -<br>6 | 1.0036 | 132.47    |
|      | 7791  | MAROOT                      | 132.00  | Ğ.     | 0.7812 | 103.11  | 7800       | KOTADDU   | 66.000         | Ğ.     | 1.0439 | 68.897    |
|      | 7831  | FATEHPUR                    | 132.00  | Ğ      | 1.0196 | 134.59  | 7840       | RANGPUR   | 66.000         | Ğ      | 1.0282 | 67.861    |
|      | 7842  | T-RANGPR                    | 66.000  | õ      | 1.0418 | 68.757  | 7880       | CHAUBARA  | 66.000         | Ğ      | 1.0368 | 68.426    |
|      | 7890  | NAWANKOT                    | 66.000  | 6      | 1.0335 | 68.212  | 7891       | T.NWANKOT | 66.000         | 6      | 1.0337 | 68.223    |
|      | 7909  | D.G.KHAN TT                 | 132.00  | Ğ      | 0.9916 | 130.89  | 7910       | D.G.KHAN  | 66.000         | 6      | 1.0055 | 66.363    |
|      | 7920  | КОТСНОТА                    | 66.000  | ň      | 0 9832 | 64 893  | 7921       | TAMPUR    | 66.000         | ő      | 0.9557 | 63.077    |
|      | 7930  |                             | 132 00  | Ř      | 0 9806 | 129.44  | 7933       | FAZAL PUR | 132.00         | Ğ      | 0.9831 | 129.77    |
|      | 7935  |                             | 66.000  | ő      | 0.9503 | 62 722  | 7951       | RAJANPUR  | 132.00         | ő      | 0.9897 | 130.64    |
|      | 7959  | TNDUS ENERGY                | /132 00 | ñ      | 1 0000 | 132 00  | 7970       | AHMDPR F  | 66,000         | ĕ      | 0.9492 | 62.650    |
|      | 7974  | LICH SHRE                   | 132.00  | 6      | 0 9429 | 124 47  | 7975       | KOT KHALT | FA 66 000      | ĕ      | 0 8590 | 56 691    |
|      | 7977  |                             | 66 000  | 6      | 0 9080 | 59 926  | 7981       |           | 132 00         | ĕ      | 0.8381 | 110 63    |
|      | 7984  | HEAD-RI-KN                  | 132 00  | ĥ      | 1 0016 | 132 21  | 7996       | FORT MINR | 0 132.00       | ĕ      | 1.0011 | 132.15    |
| . (  | 50301 | $O\Delta DTR \Delta RD$ T-1 | 111 000 | 6      | 0 9974 | 10 971  | 60302      | OADTRABD  | T = 211,000    | ĕ      | 0.9974 | 10.971    |
| - 6  | 50501 | RNGAHVAT T-1                | 111 000 | ĕ      | 0 9834 | 10 817  | 60502      | BNGAHYAT  | T = 211,000    | ě      | 0.9821 | 10.804    |
| Ì    | 50801 | SAHTWALN T-1                | 111 000 | 6      | 0 9595 | 10 554  | 60802      | SAHTWALN  | T = 211,000    | ő      | 0.9595 | 10.554    |
|      | 50803 | T-3                         | 11 000  | ő      | 1 0015 | 11 016  | 60901      | SAHWAL-O  | T = 111,000    | ő      | 0.9990 | 10.980    |
| Ì    | 50902 | SAHWAL-O T-2                | 211 000 | - 6    | 0 9720 | 10 692  | 60903      | SAHWAL-O  | T = 311 000    | ĕ      | 1.0272 | 11,290    |
| Ì    | 50951 | SWI TTT T-1                 | 11 000  | . 6    | 0.9166 | 10 083  | 60952      | SWI TTT T | -2 11 000      | ő      | 0.9166 | 10.08     |
| Ì    | 51001 | NOORPUR $T-1$               | 11 000  | 6      | 0.9875 | 10 862  | 61002      | NOORPUR T | -2 11 000      | ő      | 0.9770 | 10.747    |
| Ì    | 51004 | T-3                         | 11 000  | - 6    | 0.9689 | 10 658  | 61201      | ΡΔΚΡΔΤΔΝ  | T = 111,000    | ĕ      | 1.0144 | 11,158    |
| Ì    | 51202 | PAKPATAN T-2                | 211 000 | · õ    | 1 0144 | 11 158  | 61203      | ΡΔΚΡΔΤΔΝ  | T = 311 000    | ő      | 1 0090 | 11.090    |
| Ì    | 51301 | ΗΔΑΔΡΡΑ Τ-1                 | 11 000  | ő      | 0 9412 | 10 354  | 61302      | HARAPPA T | -2 11 000      | ĕ      | 0.9847 | 10.831    |
| Ì    | 51401 | CHCHWINT T-1                | 1       | - ñ    | 0 9825 | 20.331  | 61402      | CHCHWTNT  | T = 211,000    | ő      | 0.9895 | 10.885    |
| Ì    | 51403 | CHCHWITNI T-                | R11 000 | 6      | 0 9776 | 10 753  | 61491      | т-1       | 11 000         | ő      | 1.0164 | 11,181    |
| è    | 51501 | SH EAZAL $T = 1$            |         | Ë Å    | 0 9747 | 10 722  | 61502      | SH ΕΔΖΔΙ  | $T_{-211}$ 000 | ő      | 0.9747 | 10.722    |
| à    | 51503 | T_7                         | 11 000  | 6      | 0.9747 | 10 649  | 61601      |           | $T_{-111}$ 000 | ĥ      | 0 9405 | 10 346    |
| ì    | 51602 | BUREWALA T-2                | 211 000 | 6      | 0.9080 | 9 988   | 61603      |           | T = 311 000    | ĕ      | 0.9552 | 10.507    |
| Ì    | 51621 | BREWLA-0 T-1                | 111 000 | 6      | 0.8460 | 9 305   | 61622      | BREWLA-O  | $T_{-211}$ 000 | ĕ      | 0.8913 | 9.804     |
| · i  | 51701 | VEHART-O $T-1$              | 111 000 | - A    | 0 9356 | 10 291  | 61702      | VEHART-0  | T = 211 000    | Ä      | 0.9414 | 10.355    |
| - 6  | 51703 |                             | 11 000  | о<br>А | 0.0285 | 10 211  | 61751      |           | 1 11 000       | a<br>A | 0 9072 | - q q 7 q |
| ì    | 51757 |                             | 11 000  | 6      | 0.0203 | 0 070   | 61781      |           | $T_{-111} 000$ | 6      | 0 9560 | 10 516    |
| -2   | 51787 | KADAMDHD T-                 | 211,000 | 0<br>A | 0.0012 | 10 469  | 61801      |           | $T_{-311}$ 000 | · 6    | 0 9344 | 10 270    |
| 2    | 51802 | ADTEWALA T-2                |         | 6      | 0.9311 | 10 270  | 61803      |           | $T_{-111} 000$ | 6      | 0 9059 | 9.96      |
| 4    | 51821 | $K \wedge MTRW = 1$         | 11 000  | 6      | 0 0271 | 10 198  | 61822      | KAMTR W T | -2 11 000      | 6      | 0.9271 | 10,198    |
|      |       |                             |         |        |        |         |            |           |                |        |        |           |

|                                                                                                                                                                                                                                     |       |                                       |        |        | New T    | ext    | Documei   | nt.txt       |          |        |         |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------|--------|--------|----------|--------|-----------|--------------|----------|--------|---------|--------|
|                                                                                                                                                                                                                                     | 61901 | BWL.NAGR T-111.000                    | 6      | 0.9542 | 10.497   | 1.1    | 61902     | т-3          | 11.000   | 6      | 0.8908  | 9.799  |
|                                                                                                                                                                                                                                     | 61903 | BWL.NAGR T-311.000                    | 6      | 0.9542 | 10.497   |        | 61911     | HOTA T-1     | 11.000   | 6      | 0.8867  | 9.753  |
| ÷                                                                                                                                                                                                                                   | 61912 | HOTA T-2 11.000                       | -6     | 0.9343 | 10.277   | · .    | 62001     | OABULA T-1   | 11 000   | ň      | 0 8494  | 9 343  |
|                                                                                                                                                                                                                                     | 62002 | OABULA T-2 11 000                     | 6      | 0.9296 | 10.226   | •      | 62003     | OABULA T = 3 | 11 000   | ĕ      | 0 8681  | 9.545  |
|                                                                                                                                                                                                                                     | 62101 | SAHUKA $T = 1 11 000$                 | ň      | 0 8632 | 9 495    |        | 62102     | $CABULA T_2$ | 11 000   | 6      | 0.0001  | 0 422  |
|                                                                                                                                                                                                                                     | 62202 | $T_{-2}$ 11 000                       | 6      | 0.0052 | 10 192   |        | 62202     | T. 2         | 11 000   | 6      | 0.0303  | 3.422  |
|                                                                                                                                                                                                                                     | 62202 | T = 2 $T = 11.000$                    | 6      | 0.9230 | 10.102   | · ·    | 62203     |              | 111 000  | 0      | 0.9294  | 10.225 |
|                                                                                                                                                                                                                                     | 62202 | 1 - 1 $1 - 1$ $1 - 1$                 | 0      | 0.94/4 | 10.422   |        | 62301     | CHISTIAN I-  | 11.000   | 6      | 0.9223  | 10.145 |
|                                                                                                                                                                                                                                     | 02302 | CHISTIAN 1-211.000                    | 0      | 0.8968 | 9.805    |        | 62303     | CHISTIAO 13  | 11.000   | 6      | 0.8868  | 9.755  |
| · · ·                                                                                                                                                                                                                               | 62321 | DHRANWALA-IIII.000                    | . 6    | 0.8877 | 9.765    |        | .62322    | DHRANWALA-T  | 211.000  | 6      | 0.8877  | 9.765  |
|                                                                                                                                                                                                                                     | 62501 | MAN-KOT T-1 11.000                    | 6      | 0.9851 | 10.836   |        | 62502     | MAN-KOT T-2  | 11.000   | 6      | 0.9851  | 10.836 |
|                                                                                                                                                                                                                                     | 64151 | CHISTIAN T-211.000                    | - 6    | 0.8198 | 9.018    |        | 64191     | L.SOHAN T-1  | 11.000   | 6      | 0.9355  | 10.290 |
|                                                                                                                                                                                                                                     | 64211 | т-1 11.000                            | 6      | 0.9366 | 10.303   |        | 64212     | T-2          | 11.000   | 6      | 0.9333  | 10.266 |
| 1                                                                                                                                                                                                                                   | 64621 | NOORSAR T-1 11.000                    | 6      | 0.9285 | 10.214   |        | 64622     | NOORSAR T-2  | 11.000   | 6      | 0.9124  | 10.036 |
| · .                                                                                                                                                                                                                                 | 64821 | MNCHNBAD T1 11.000                    | 6      | 0.8797 | 9.677    |        | 64822     | T-2          | 11.000   | 6      | 0.8829  | 9.712  |
|                                                                                                                                                                                                                                     | 64881 | т-1 11.000                            | - 6    | 0.8807 | 9.688    |        | 64891     | T-1          | 11.000   | 6      | 0.8941  | 9 835  |
| ÷.,                                                                                                                                                                                                                                 | 64892 | т-2 11.000                            | 6      | 0.8941 | 9.835    |        | 64911     | MCLD.GNJ T1  | 11.000   | Ğ      | 0 8866  | 9 753  |
| ÷                                                                                                                                                                                                                                   | 64912 | MCLD GNG T-2                          | 6      | 0.8703 |          |        | 65012     | HARONARD T-  | 211 000  | Ğ      | 0 9039  | 9 9/3  |
| ×.                                                                                                                                                                                                                                  | 65013 | HARONARD T-111.000                    | Ĩ      | 0.8792 | 9 671    |        | 65014     | HARONARD T-  | 311 000  | 6      | 0.0000  | 0 030  |
|                                                                                                                                                                                                                                     | 65121 | FAOTRWLT = T1, 11, 000                | Ğ      | 0 9061 | 9 967    |        | 65122     |              |          | 6      | 0.9055  | 9,959  |
| in in<br>State                                                                                                                                                                                                                      | 65191 | $T_{-1}$ 11 000                       | 6      | 0,0001 | 8 700    |        | 65102     | $T_2$        | 11 000   | 6      | 0.9001  | 9,907  |
| 7                                                                                                                                                                                                                                   | 65211 |                                       | 6      | 0.7510 | 0.109    |        | 65212     |              | 11 000   | 0      | 0.7910  | 0.709  |
|                                                                                                                                                                                                                                     | 70001 | 1000000000000000000000000000000000000 | - 6    | 1 0144 | 11 150   |        | 70002     | FURIADASI-Z  |          | 0      | 0.0012  | 9.4/3  |
|                                                                                                                                                                                                                                     | 70001 | MIANCHNU $T$ 211 000                  | 0      | 0 0040 | 10 976   | 14 - A | 70002     | MIANCHNU I-  | 211.000  | 6      | 0.9920  | 10.912 |
|                                                                                                                                                                                                                                     | 70003 | MIANCHNU = 511.000                    | 6      | 0.9042 | 10.020   |        | 70011     | CHAK-83-11   | 111 000  | b      | 0.9827  | 10.810 |
|                                                                                                                                                                                                                                     | 70012 | CHAK-83-12 11.000                     | 6      | 0.9827 | 10.810   | · ·    | 70061     | H SIDNAL I-  | 111.000  | 6      | 0.9620  | 10.582 |
|                                                                                                                                                                                                                                     | 70002 | H SIDNAL 1-211.000                    | 0      | 0.9836 | 10.819   |        | 70101     | KACHAKHU I-  | 111.000  | . 6    | 0.9752  | 10.727 |
|                                                                                                                                                                                                                                     | 70102 | KACHAKHU 1-211.000                    | 6      | 0.9752 | 10.727   |        | 70103     | ΚΑСНАКНИ Т-  | 311.000  | 6      | 0.9752  | 10.727 |
| a de la composición de la composición de la composición de la composición de la composición de la composición d<br>Composición de la composición de la comp | 70201 | KHANEWAL T-111.000                    | 6      | 0.9880 | 10.868   |        | 70202     | KHANEWAL T-  | 211.000  | 6      | 0.9807  | 10.787 |
|                                                                                                                                                                                                                                     | 70203 | KHANEWAL 1-311.000                    | 6      | 0.9823 | 10.806   | -      | 70301     | KABIRWLA T-  | 111.000  | 6      | 0.9941  | 10.935 |
| 11                                                                                                                                                                                                                                  | 70302 | KABIRWLA T-211.000                    | 6      | 1.0106 | 11.11/   |        | /0303     | KABIRWLA T-  | 311.000  | .6     | 0.9647  | 10.611 |
|                                                                                                                                                                                                                                     | 70321 | MP PAHOR T-111.000                    | 6      | 0.9735 | 10.709   |        | 70322     | MP PAHOR T-2 | 211.000  | 6      | 0.9391  | 10.330 |
|                                                                                                                                                                                                                                     | 70401 | GARHMORE T-111.000                    | . 6    | 0.9501 | 10.451   |        | 70402     | GARHMORE T-2 | 211.000  | 6      | 0.9229  | 10.152 |
|                                                                                                                                                                                                                                     | 70421 | B-BANGLA T-111.000                    | 6      | 0.9725 | 10.697   |        | 70501     | JEHANIAN T-  | 111.000  | 6      | 0.9559  | 10.515 |
|                                                                                                                                                                                                                                     | 70502 | JEHANIAN T-211.000                    | 6      | 0.9830 | 10.813   |        | 70503     | JEHANIAN T-  | 311.000  | 6      | 0.9525  | 10.477 |
|                                                                                                                                                                                                                                     | 70601 | СНАК.211 Т-111.000                    | 6      | 0.9495 | 10.445   |        | 70602     | СНАК 211 Т-2 | 211.000  | 6      | 0.9473  | 10.421 |
|                                                                                                                                                                                                                                     | 70603 | CHAK 211 T-311.000                    | 6      | 0.9604 | 10.565   |        | 70701     | MAILSI T-1   | 11.000   | 6      | 0.8976  | 9.874  |
|                                                                                                                                                                                                                                     | 70702 | MAILSI T-2 11.000                     | 6      | 0.9122 | 10.034   |        | 70703     | MAILSI T-3   | 11.000   | 6      | 0.8838  | 9.722  |
|                                                                                                                                                                                                                                     | 70751 | MUKHDM.R T-111.000                    | 6      | 0.9594 | 10.553   |        | 70752     | MUKHDM.R T-2 | 211.000  | Ğ      | 0.9441  | 10.385 |
|                                                                                                                                                                                                                                     | 71101 | т-1 11.000                            | 6      | 0.9885 | 10.874   |        | 71102     | т-2          | 11.000   | ĕ      | 0.9866  | 10 852 |
|                                                                                                                                                                                                                                     | 71103 | т-3 11.000                            | 6      | 0.9866 | 10.852   |        | 71151     | T-1          | 11.000   | ĕ      | 0.9905  | 10.896 |
|                                                                                                                                                                                                                                     | 71152 | T-2 11.000                            | ň      | 0.9905 | 10.896   |        | 71201     | т–1          | 11.000   | ĕ      | 1. 0039 | 11 043 |
|                                                                                                                                                                                                                                     | 71202 | т-2 11.000                            | ň      | 1.0039 | 11.043   |        | 71203     | $\tau_{-3}$  | 11 000   | Ä      | 1 01/12 | 11 157 |
|                                                                                                                                                                                                                                     | 71251 | T-1 11 000                            | б<br>К | 0.9767 | 10.743   |        | 71252     | . J<br>т-2   | 11 000   | 6<br>A | 0 9767  | 10 7/2 |
|                                                                                                                                                                                                                                     | 71301 | T-1 11 000                            | 0<br>A | 0 9954 | 10 949   |        | 71302     | τ_2          | 11 000   | Å      | 0.9707  | 10.743 |
|                                                                                                                                                                                                                                     | 1100L | ·                                     | 0      | 0.0004 | TO . 743 |        | 1 7 7 7 7 | 1 4          | TT . 000 | υ      | 0.2771  | TO')T) |

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|-----|-------|----------------------------------------------------------------------------------------------------------------|----------------------|----------|-------------------------------------------------------------|---------------------|
|     | 71401 | т-1 11 000                                                                                                     | 6 1 0122             | 11,134   | 71402 т-2 11.000                                            | 6 1.0104 11.114     |
|     | 71403 | T-3 11 000                                                                                                     | 6 0 9993             | 10 992   | 71405 BWP 66 000                                            | 6 1 0030 66 195     |
|     | 71/51 | $T_{-1}$ 11 000                                                                                                |                      | 10, 202  | $71452 \pm 2$ 11 000                                        | 6 0 0007 10 808     |
|     | 71/71 | $\tau_{-1}$ 11.000                                                                                             | 6 0.9307<br>6 0.0468 | 10.030   | 71472 + 2 11.000<br>71472 + 2 11.000                        | 6 0.0300 10.230     |
| ċ   | 71471 | $1^{-1}$ 11.000                                                                                                | 0 0.9400             | 10.415   | $71472$ $1^{-2}$ $11.000$                                   | 6 0.9309 10.239     |
|     | 71400 | $1-3$ $\pm 1.000$                                                                                              | 0 0.9108             | 10.085   | 71491 DUNYAPUK $1-511.000$                                  | 0 0.9205 10.120     |
|     | 71492 | DUNYAPUR 1-411,000                                                                                             | 0 0.9479             | 10.427   |                                                             | 6 0.9477 10.425     |
|     | /1502 | 1-2 11.000                                                                                                     | 6 0.9477             | 10.425   | /1591 TI 11.000                                             | 6 0.9480 10.428     |
|     | /1592 | T2 11.000                                                                                                      | 6 0.9480             | 10.428   | 71601 T-1 11.000                                            | 6 0.9/0/ 10.6/8     |
|     | 71602 | T-2 11.000                                                                                                     | 6 0.9707             | 10.678   | 71702 AHMDPR.E T-211.000                                    | 6 0.9621 10.583     |
|     | 71703 | т-3 11.000                                                                                                     | 6 0,9753             | 10.728   | 71704 T4 11.000                                             | 6 0.9772 10.749     |
|     | 71801 | т-1 11.000                                                                                                     | 6 1.0358             | 11.394   | 71802 T-2 11.000                                            | 6 1 0240 11 264     |
|     | 71851 | т-1 11.000                                                                                                     | 6 1.0575             | 11.633   | 71852 T-2                                                   | 6 1.0322            |
|     | 72001 | т-1 11.000                                                                                                     | 6 1.0430             | 11.474   | 72002 T-2 11.000                                            | 6 1.0464 11.510     |
|     | 72003 | т-3 11.000                                                                                                     | 6 1.0563             | 11.619   | 72101 T-1 11.000                                            | 6 1.0412 11.453     |
|     | 72102 | т2 11.000                                                                                                      | 6 1.0288             | 11.317   | 72103 Т-З 11.000                                            | 6 0.9416 10.358     |
|     | 72201 | т-1 11.000                                                                                                     | 6 0.9762             | 10.738   | 72202 T-2 11.000                                            | 6 1.0278 11.305     |
|     | 72203 | т-3 11.000                                                                                                     | 6 0.9818             | 10.800   | 72204 T-4 11.000                                            | 6 0.9836 10.820     |
|     | 72251 | т-1 11.000                                                                                                     | 6 0.9671             | 10.638   | 72252 T-2 11.000                                            | 6 0.9653 10.618     |
|     | 72253 | т-3 11.000                                                                                                     | 6 0.9485             | 10.433   | 72301 T-1 11.000                                            | 6 1.0089 11.098     |
|     | 72302 | T-2 11.000                                                                                                     | 6 1.0089             | 11.098   | 72303 T-3 11.000                                            | 6 1.0230 11.254     |
|     | 72304 | LALPIR 11.000                                                                                                  | 6 1.0118             | 11.130   | 72311 WALANA T-1 11.000                                     | 6 0.9539 10 493     |
| . ' | 72351 | т-1 11.000                                                                                                     | 6 1.0531             | 11.584   | 72352 NAWAZAB T-2 11.000                                    | 6 0.9988 10.987     |
|     | 72401 | T-1 11.000                                                                                                     | 6 1.0545             | 11.600   | 72402 T-2 11.000                                            | 6 0.9433 10.376     |
|     | 72403 | T-3 11.000                                                                                                     | 6 1.0395             | 11.435   | 72501 MN_KH_RD_T-111.000                                    | 6 0.9722 10.694     |
|     | 72502 | MN_KH_RD_T-211.000                                                                                             | 6 0.9722             | 10,694   | 72503 MN KH. RD T-311.000                                   | 6 0.9722 10.694     |
|     | 72551 | WAP TO $T-1$ 11 000                                                                                            | 6 1 0137             | 11 150   | 72552 WAPDA TO T-211,000                                    | 6 0 9880 10 868     |
|     | 72554 | T-3 11 000                                                                                                     | 6 0 9803             | 10 784   | 72601 MN BS RD T-111 000                                    | 6 0 9855 10 840     |
|     | 72602 | MN BS RD $T=211 000$                                                                                           | 6 0 9470             | 10.417   | 72603 MN BS RD T-311 000                                    | 6 0 9855 10 840     |
|     | 72611 | PN 18 HSG T-111 000                                                                                            | 6 0 9947             | 10 942   | 72612 PN1B HSG T-211 000                                    | 6 0 9947 10 942     |
|     | 72621 | BUCH VIS $T = 111,000$                                                                                         | 6 0 9395             | 10 335   | $72651 \cap BACH T = 1 11 000$                              | 6 0 9641 10 605     |
|     | 72652 | 0 BAGH $T-2$ 11 000                                                                                            | 6 0 9704             | 10 674   | 72701 MIN-TND T-1 11 000                                    | 6 1 0131 11 144     |
|     | 72702 | MIN-TND T-2 11 000                                                                                             | 6 0 9505             | 10 456   | 72703 MLN-TND T-3 11 000                                    | 6 1 0015 11 016     |
|     | 72731 | SURI MNT T-111 000                                                                                             | 6 0 9979             | 10 977   | 72801  MN VR RD  = 111 000                                  | 6 0 9817 10 799     |
|     | 72802 | MN VP PD $T_211 000$                                                                                           | 6 1 0110             | 11 121   | 72803 MN VP PD T_311 000                                    | 6 0 9963 10 960     |
|     | 72002 | MR.VR.RD T = 211.000                                                                                           |                      |          | 72003 MM.VK.KD T $-311.000$                                 | 6 0 0443 10 388     |
|     | 72051 | $\begin{array}{c} \text{QASIMPUR}  \text{T-III.000} \\ \text{OASIMPUR}  \text{T-III.000} \\ \end{array}$       | 6 1 0008             | 11 009   | 72032 QASIMPOR 1-211.000                                    | 6 0 0522 10 474     |
|     | 72033 | $\begin{array}{c} \text{QASIMPUR} & \text{I-SII.000} \\ \text{M} & \text{I} & \text{O} & \text{I} \end{array}$ |                      | 10 474   | $72071 \text{ M} \text{J} \text{ RD} 1^{-1} \text{ II} 000$ | 6 0.9322 10.474     |
|     | 72072 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                           | 0 0.3777             | 10:000   | $7200 \pm 1^{-1}$ $\pm 11.000$                              | 0 $0.3023$ $10.012$ |
|     | 72002 |                                                                                                                |                      | 10.020   | 72003 + 3 II.000                                            | 0 0.3010 10.370     |
|     | 72091 |                                                                                                                | 0 0.992L             | 11 044   | 72001  MECCO T  1 11 000                                    | 6 0 0722 10 605     |
|     | 72093 | 1-5 11.000                                                                                                     | 0 1.0040             | 11 254   | 72901 MESCU I-1 11.000                                      |                     |
|     | 72902 | $MESCU = 1 - 2 \qquad 11.000$                                                                                  | 0 1.UZ3L             | 11 121   | 72903 MESCO 1-3 11.000                                      | 6 1 0204 11 225     |
|     | /3201 | GUJRALS IL LL.UUU                                                                                              | 0 1.0110             |          | 73202 GUJKALS 13 11.000                                     | 0 1.0204 11.225     |
|     | フラノロイ | GITTRAT S IZ TE OOO = 0                                                                                        | n I UIIX             | 11 1/4   |                                                             | 0 1.0558 11.5/2     |

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|-------------|--------|------------|----------------|--------------|-------------------------------------------|---------|-------|--------|------------|-----------------------|--------|--------|----------------|
|             | 73252  | LAYYAH T-  | 2 11.000       | 61           | .0338                                     | 11.372  |       | 73253  | LAYYAH T-  | 3 11.000              | 6      | 1.1255 | 12.380         |
|             | 73281  | KBGASHER   | т-111.000      | 6 1          | .0115                                     | 11.126  |       | 73282  | KBGASHER   | т-211.000             | 6      | 1.0126 | 11.138         |
|             | 73301  | MZFRGARH   | т-111.000      | 6 0          | .9702                                     | 10.672  |       | 73302  | MZFRGARH   | т-211.000             | 6      | 0.9692 | 10.661         |
|             | 73303  | MZFRGARH   | т-311.000      | 6 0          | .9702                                     | 10.672  |       | 73312  | KOTADU-O   | T-211.000             | 6      | 1.0461 | 11.507         |
| ÷.,         | 73313  | KOTADU-O   | T-311.000      | 61           | .0422                                     | 11.465  |       | 73314  | KOTADU-O   | т-411.000             | 6.     | 1.0270 | 11.297         |
| e et<br>L'A | 73321  | N.A.WALT   | T-211.000      | 6 1          | .0214                                     | 11.236  |       | 73322  | N.A.WALT   | T-111.000             | Ğ      | 1.0261 | 11.287         |
|             | 73331  | т1         | 11.000         | . <u>6</u> 1 | 0010                                      | 11.011  |       | 73332  | т2         | 11.000                | ő      | 0.9817 | 10.799         |
|             | 73351  | KOTSUL TAN | -т111 000      | 61           | 0261                                      | 11 287  |       | 73352  | ΚΟΤΣΗΙ ΤΑΝ | I = T = 2 = 1 = 0 = 0 | ĕ      | 1 0404 | 11 445         |
|             | 73361  | KAROR I F  | -T1110000      | 61           | 0005                                      | 11 006  |       | 73362  | KAROR I F  | -T2                   | ĕ      | 1 0006 | <b>TT:</b> 113 |
| 53          | 73401  | MEHRKHAS   | $T_{-111}$ 000 | 6 0          | 8780                                      | 9 659   |       | 73402  | MEHRKHAS   | τ-211 000             | 6      | 0 8780 | 9 659          |
| 1)<br>1     | 73403  | MEHRKHAS   | T_3            | 6 0          | 8722                                      |         |       | 73501  |            | $T_{-111}$ 000        | 6      | 0.0700 | 9.033          |
|             | 73502  |            | $T_{-211} 000$ | 6 0          | 8/07                                      | 0 2/8   |       | 73601  |            | $T_{-111}$ 000        | С<br>С | 0.6877 | 7 564          |
|             | 73602  |            | $T_{-211,000}$ | 6 0          | 3//7                                      | 3 786   |       | 73603  | T-3        | 11 000                | 6      | 0.0077 | 2 010          |
|             | 72701  | JAIOTJND   | T = 2.11,000   | 6.0          | . 9262                                    | 0 100   |       | 73003  |            | -211.000              | 6      | 0.0100 | 0.910          |
|             | 72051  |            | 1 11 000       | 6 1          | 0120                                      | J.130   |       | 72052  |            | -2 11.000             | 6      | 0.0000 | 9.199          |
| ÷.          | 73931  | SHALLNU I  | -1 $11,000$    | 6 0          | 0006                                      | 10 005  |       | 73932  | SHA LNU I  | -2 11.000             | U<br>C | 0.9071 | 10.039         |
|             | 74001  | TAUNSA I-  | 1 11.000       | 0 0          | 0142                                      | 10.003  |       | 74002  | TAUNSA I-  | $\frac{1}{2}$ 11.000  | 0      | 0.9896 | 11 600         |
| 14.         | 74003  |            | T 211 000      |              | .0142                                     | 11, 107 |       | 74401  | CHOKMINDA  | T-111.000             | 0      | 1.0569 | 11.020         |
|             | 74402  | CHOKMINDA  | 1-211.000      | 01           | 0404                                      | 11.20/  |       | 74502  |            | 1-211.000             | 6      | 1.0293 | 11.322         |
| ÷.          | 74562  | CHOKAZAM   |                | 0 1          | .0404                                     | 10 002  |       | 74503  | 1-3        |                       | 6      | 1.014/ | 11.101         |
| ÷÷.         | 74591  | KHANGARH   | 1-111.000      | 60           | .9149                                     | 10.063  |       | 74592  | KHANGARH   | 1-211.000             | 6      | 0.9306 | 10.237         |
| 11.         | 74602  | T-2        | 11.000         | 60           | .9941                                     | 10.935  |       | 74603  | T-3        | 11.000                | 6      | 0.9969 | 10.966         |
|             | 74604  | T-4        | 11.000         | 6 1          | 0396                                      | 11.435  |       | /4651  | T-1        | 11.000                | 6      | 0.9/// | 10.755         |
|             | 74652  | T-2        | 11.000         | 60           | .9///                                     | 10.755  |       | /4653  | ТЗ         | 11.000                | 6      | 0.9822 | 10.804         |
|             | 74691  | T-1        | 11.000         | 6 0          | .9839                                     | 10.822  |       | 74701  | T-1        | 11.000                | 6      | 0.9876 | 10.864         |
|             | 75901  | т-1        | 11.000         | 60           | .9819                                     | 10.801  |       | 75902  | T-2        | 11.000                | 6      | 1.0525 | 11.577         |
|             | 77811  | T-1        | 11.000         | 60           | .9824                                     | 10.806  |       | 77812  | т-2        | 11.000                | 6      | 0.9824 | 10.806         |
| ÷.,         | 77911  | MAROOT T1  | 11.000         | 60           | .7555                                     | 8.311   |       | 77912  | MAROOT T-  | 2 11.000              | 6      | 0.7456 | 8.202          |
|             | 78311  | FATEHPUR   | T-111.000      | 6 1          | .0024                                     | 11.026  |       | 78312  | FATEPUR T  | -2 11.000             | 6      | 1.0654 | 11.719         |
|             | 78313  | т-3        | 11.000         | 61           | .0436                                     | 11.480  |       | 78401  | т1         | 11.000                | 6      | 1.0053 | 11.058         |
|             | 78901  | NAWANKOT   | т-111.000      | 61           | .0210                                     | 11.231  |       | 79091  | т-1        | 11.000                | 6      | 1.0108 | 11.118         |
|             | 79092  | т-2        | 11.000         | 60           | .9987                                     | 10.986  |       | 79211  | JAMPUR T-  | 1 11.000              | 6      | 0.9435 | 10.378         |
|             | 79301  | т-1        | 11.000         | 61           | .0207                                     | 11.228  |       | 79302  | т-2        | 11.000                | 6      | 0.9844 | 10.828         |
|             | 79331  | т-1        | 11.000         | 60           | .9726                                     | 10.698  |       | 79332  | Τ-2        | 11.000                | 6      | 0.9642 | 10.607         |
|             | 79351  | т-1        | 11.000         | 60           | .9593                                     | 10.552  |       | 79352  | DAJAL T-2  |                       | 6      | 0.9659 |                |
|             | 79511  | T-1        | 11.000         | 60           | .9815                                     | 10.797  |       | 79512  | т-2        | 11.000                | 6      | 0.9815 | 10.797         |
|             | 79513  | RAJANPUR   | т-3            | 60           | .9539                                     |         |       | 79741  | UCH.SHRF   | т-211.000             | 6      | 0.9831 | 10.814         |
|             | 79742  | UCH.SHRF   | т-311.000      | 60           | .9614                                     | 10.575  |       | 79743  | UCH.SHRF   | T-111.000             | 6      | 0.9892 | 10.882         |
|             | 79751  | UCH (KF)   | T-111.000      | 6 0          | .8338                                     | 9.172   |       | 79752  | T-2        |                       | 6      | 0.8311 |                |
|             | 79811  | ALI PUR T  | -1 11.000      | ē 0          | .7939                                     | 8.733   |       | 79812  | ALIPUR T-  | 2 11.000              | 6      | 0.8170 | 8.987          |
|             | 79813  | ALTPUR T-  | 3 11.000       | 6 Õ          | .8804                                     | 9.685   |       | 79841  | H.R. KAN   | T1 11.000             | õ      | 1.0194 | 11.213         |
|             | 79842  | т-2        | 11.000         | ĕ õ          | .9863                                     | 10.849  |       | 79961  | т-1        | 11.000                | ő      | 0.9975 | 10.972         |
| -           | 732512 | 1 SM-132KV | 132.00         | ĕ ĭ          | .0314                                     | 136.15  |       |        |            |                       | 0      | 2.25.3 |                |

### 2021-with.txt

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS(R)E MON, JAN 25 2021 11:38 MEPCO-REVISED-DIIP-2021-WITH

BUSES WITH VOLTAGE GREATER THAN 2.0000:

BUS# X-- NAME --X BASKV AREA V(PU) V(KV) BUS# X-- NAME --X BASKV AREA V(PU) V(KV)

\* NONE \*

BUSES WITH VOLTAGE LESS THAN 1.7000:

| BUS# | X NAME      | X BASKV | AREA | V(PU)  | V(KV)    |                                                                                                                 | BUS# | X NAME>     | X BASKV | AREA | V(PU)  | V(KV)  |
|------|-------------|---------|------|--------|----------|-----------------------------------------------------------------------------------------------------------------|------|-------------|---------|------|--------|--------|
| 104  | T-OFF BUKSH | 466.000 | 6    | 0.9429 | 62.229   | a an an an an an an an an an an an an an                                                                        | 304  | T-1         | 11.000  | 6    | 0.9360 | 10.296 |
| 401  | т-3         | 11.000  | 6    | 0.9939 | 10.933   |                                                                                                                 | 502  | т-3         | 11.000  | 6    | 1.0024 | 11.026 |
| 529  | PARCO       | 220.00  | 6    | 1.0386 | 228.50   | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | 5282 | FATMA ENERG | Y132.00 | 6    | 1.0200 | 134.64 |
| 5283 | FAZAL CLOTH | 132.00  | 6    | 1.0193 | 134.55   |                                                                                                                 | 6030 | QADIRABD    | 132.00  | 6    | 1.0358 | 136.73 |
| 6050 | BNGAHYAT    | 132.00  | 6    | 1.0195 | 134.57   |                                                                                                                 | 6070 | YOUSFWLA    | 132.00  | 6    | 1.0298 | 135.94 |
| 6080 | SAHIWALN    | 132.00  | 6    | 1.0223 | 134.94   |                                                                                                                 | 6090 | SAHIWAL-O   | 132.00  | 6    | 1.0219 | 134.89 |
| 6095 | SAHIWAL III | 132.00  | 6    | 1.0193 | 134.55   |                                                                                                                 | 6100 | NOORPUR     | 132.00  | 6    | 1.0200 | 134.63 |
| 6101 | PAKPATTAN-2 | 132.00  | 6    | 1.0159 | 134.10   | ·                                                                                                               | 6120 | PAKPATAN    | 132.00  | 6    | 0.9948 | 131.32 |
| 6130 | HARAPPA     | 132.00  | 6    | 1.0056 | 132.74   |                                                                                                                 | 6140 | CHCHWTNI    | 132.00  | 6    | 1.0084 | 133.10 |
| 6149 | KASOWAL132  | 132.00  | 6    | 1.0058 | 132.77   |                                                                                                                 | 6150 | SH.FAZAL    | 132.00  | 6    | 0.9850 | 130.03 |
| 6160 | BUREWALA    | 132.00  | 6    | 0.9796 | 129.31   |                                                                                                                 | 6162 | BREWLA-O    | 132.00  | 6    | 0.9736 | 128.52 |
| 6169 | VEHARI-N    | 132.00  | 6    | 1.0121 | 133.60   |                                                                                                                 | 6170 | VEHARI-O    | 132.00  | 6    | 1.0084 | 133.11 |
| 6175 | LUDDEN      | 132.00  | 6    | 0.9903 | 130.72   |                                                                                                                 | 6178 | KARAMPUR    | 132.00  | 6    | 0.9804 | 129.41 |
| 6180 | ARIFWALA    | 132.00  | 6    | 0.9800 | 129.35   |                                                                                                                 | 6181 | ARIFWALA-2  | 132.00  | 6    | 0.9798 | 129.33 |
| 6182 | KAMIRWALA   | 132.00  | 6    | 0.9943 | 131.25   |                                                                                                                 | 6190 | BWL NAGR    | 132.00  | 6    | 0.9855 | 130.08 |
| 6191 | HOTA        | 132.00  | 6    | 0.9754 | 128.75   |                                                                                                                 | 6200 | QABULA      | 132.00  | 6    | 0.9/20 | 128.30 |
| 6210 | SAHUKA      | 132.00  | 6    | 0.9775 | 129.03   |                                                                                                                 | 6220 | HASILPUR    | 132.00  | 6    | 0.98/2 | 130.32 |
| 6221 | CHUNAWALA   | 132.00  | -6   | 0.9861 | 130.17   |                                                                                                                 | 6230 | CHISTIAN-O  | 132.00  | 6    | 1.0007 | 132.10 |
| 6231 | CHSTAN-N    | 132.00  | 6    | 1.0073 | 132.96   |                                                                                                                 | 6232 | DHARWALA132 | 132.00  | 6    | 0.9961 | 131.49 |
| 6250 | MAN-KOT     | 132.00  | . 6  | 1.0018 | 132.23   |                                                                                                                 | 6410 | HASILPUR    | 66.000  | 6    | 0.9/12 | 64.101 |
| 6415 | CHISTIAN    | 66.000  | 6    | 0.9239 | 60.977   |                                                                                                                 | 6419 | L.SOHANRA   | 132.00  | 6    | 0.9979 | 131.72 |
| 6420 | BEST-GREEN  | 132.00  | 6    | 1.0200 | 134.64   |                                                                                                                 | 6421 | K.P.TOMI    | 132.00  | 6    | 0.9889 | 130.54 |
| 6422 | APPOLO-SOLA | R132.00 | 6    | 1.0180 | 134.38   |                                                                                                                 | 6462 | NOORSAR     | 132.00  | 6    | 0.9981 | 131.75 |
| 6482 | MNCHNBAD    | 132.00  | 6    | 0.9777 | 129.06   |                                                                                                                 | 6488 | BWL NAGAR-2 | 132.00  | 6    | 0.9952 | 131.3/ |
| 6489 | DONGA BNGA  | 132.00  | 6    | 0.9912 | 130.84   |                                                                                                                 | 6491 | MCLD.GNJ    | 132.00  | 6    | 0.9744 | 128.62 |
| 6501 | HARONABD    | 132.00  | 6    | 0.9934 | 131.13   |                                                                                                                 | 6512 | FAQIRWLI    | 132.00  | 6    | 0.9848 | 129.99 |
| 6519 | KHICHIWALA  | 132.00  | 6    | 0.9808 | 129.46   |                                                                                                                 | 6521 | FORTABAS    | 132.00  | 6    | 0.9824 | 129.67 |
| 6666 |             | 122 00  | 6    | 1 0174 | 13/1 3/0 |                                                                                                                 | 7000 | MTANCHNII   | 137 00  | h    | 0 9870 | 179 67 |

|     |       |                                                                    |        |         | 2021-w | ith_txt  |                    |        |               |        |
|-----|-------|--------------------------------------------------------------------|--------|---------|--------|----------|--------------------|--------|---------------|--------|
|     | 7001  | CHAK-83-132 132                                                    | 2 00 E | 0 9969  | 131 59 | 7002 KA  |                    | 132 00 | 6 1 0181      | 134 39 |
|     | 7001  |                                                                    |        | 0.9505  | 128 62 | 7010 KA  |                    | 132.00 | 6 0 9720      | 128 30 |
|     | 7000  | HEAD SIDHNALLJZ                                                    |        | 0.9744  | 120.02 |          |                    | 122.00 | 6 1 0000      | 132 00 |
|     | 7020  | KHANEWAL 132                                                       |        | 0.9014  | 129.04 | 7029 FA  |                    | 122.00 |               | 120 04 |
|     | 70:30 | KABIRWLA 132                                                       | 2.00 6 | 0.9772  | 129.00 | 7032 MP  | PAHOR              | 132.00 | 6 0.9700      | 120.04 |
|     | 7040  | GARHMORE 134                                                       | 2.00 6 | 0.9904  | 130.73 | 7042 B-  | -BANGLA            | 132.00 | 6 0.9701      | 128.05 |
|     | 7050  | JEHANIAN 132                                                       | 2.00 6 | 0,9835  | 129.83 | 7060 CH  | IAK 211            | 132.00 | 6 0.9/38      | 128.55 |
|     | 7070  | MAILSI 132                                                         | 2.00 6 | 0.9785  | 129.17 | 7075 MU  | JKHDM.R            | 132.00 | 6 0.9813      | 129.53 |
|     | 7100  | P.GAIB-1 132                                                       | 2.00 6 | 1.0106  | 133.40 | 7109 P.  | GAIB-2             | 132.00 | 6 1.0006      | 132.08 |
|     | 7110  | BASTIMLK 132                                                       | 2.00 6 | 0,9787  | 129.18 | 7115 MI  | ERAN PUR           | 132.00 | 6 0.9804      | 129.41 |
|     | 7120  | LODHRAN 132                                                        | 2.00 6 | 1.0078  | 133.03 | 7123 BU  | JKSHAN 66KV        | 66.000 | 6 0.9424      | 62.199 |
|     | 7125  | LAR 132                                                            | 2.00 6 | 0.9810  | 129.50 | 7130 BU  | J.JADID            | 132.00 | 6 1.0034      | 132.44 |
|     | 7138  | BWPN-2 132                                                         | 2.00 6 | 1.0034  | 132.44 | 7139 в.  | W.P-N              | 132.00 | 6 1.0364      | 136.80 |
|     | 7140  | BHAWALPR 132                                                       | 2.00 6 | 1.0198  | 134.61 | 7145 BP  | PUR CANTT          | 132.00 | 6 1.0290      | 135.82 |
| · . | 7146  | CREST-ENERGY132                                                    | 2.00 6 | 1.0212  | 134.80 | 7147 KA  | ARORPCA            | 132.00 | 6 0.9780      | 129.09 |
|     | 7148  | OAD-SOL-T 132                                                      | 2.00 6 | 1.0200  | 134.64 | 7149 DU  | JNYAPUR            | 132.00 | 6 0.9641      | 127.26 |
|     | 7150  | SAMASATA 132                                                       | 5.00 6 | 0.9942  | 131.23 | 7159 MU  | JB-PUR             | 132.00 | 6 0.9832      | 129.78 |
|     | 7160  | 1 TAOATPR 132                                                      | 2.00 6 | 0.9817  | 129.59 | 7170 AH  | HMDPR F            | 132.00 | 6 0 9770      | 128.96 |
| R   | 7175  | RYK-PP 13                                                          | 2.00 6 | 1.0100  | 133.32 | 7180 FF  | ROZA               | 132.00 | 6 1.0127      | 133.67 |
| 3   | 7185  | KHANBELA 13                                                        | 2.00 6 | 0.9964  | 131.52 | 7190 на  | AMZA-PP            | 132.00 | 6 1.0000      | 132.00 |
| ÷   | 7200  | KHANPUR 13                                                         | 2.00 6 | 1.0033  | 132.43 | 7210 MW  | VORSHTA            | 132.00 | 6 0.9878      | 130.40 |
| ġ.  | 7220  | $\mathbf{R} \vee \mathbf{K} \mathbf{H} \mathbf{A} \mathbf{N} = 13$ | 2.00 6 | 1 0006  | 132 08 | 7221 RY  | K-NEW              | 132 00 | 6 1 0258      | 135 40 |
|     | 7225  | $P \vee KHN2$ 13                                                   | 2 00 6 | 0 9945  | 131 27 | 7229 RY  | /K-3               | 132 00 | 6 1.0045      | 132 59 |
|     | 7230  | SADTOARD 13                                                        | 200 6  | 1 0191  | 134 51 | 7231 54  |                    | 132.00 | 6 1 0235      | 135.10 |
|     | 7230  | JADIQABD 13                                                        | 2 00 6 | 1 0300  | 135 96 | 7235 NA  |                    | 132.00 | 6 1 0227      | 134 99 |
| t.  | 7037  | DTE 13                                                             | 2.00 6 | 1 0157  | 134 07 | 7240 i   |                    | 132.00 | 6 1 0076      | 133 00 |
|     | 7250  |                                                                    | 2 00 6 | 1 0140  | 133.85 | 7255 WA  |                    | 132.00 | 6 1 0033      | 132 43 |
|     | 7250  |                                                                    | 2 00 6 | 0 9975  | 131 67 | 7261 PL  | INTAR HOSNE        | 132 00 | 6 1 0104      | 133 37 |
|     | 7260  |                                                                    | 2.00 6 | 0 9963  | 121 51 | 7265.04  |                    | 132 00 |               | 131 85 |
|     | 7260  | DOCH VILLAS IS                                                     | 2.00 6 | 1 0040  | 132 53 | 7270 MI  |                    | 132.00 | 6 1 0007      | 132 09 |
|     | 7203  | COCA COLA 13                                                       | 2.00 6 | 1 00070 | 132.00 | 7273 51  | ΙΡΑΊ ΜΤΑΝΤ         | 132.00 | 6 0 9984      | 131 79 |
|     | 7775  | C T MTLL 13                                                        | 2.00 6 | 0 0007  | 131 08 | 7273 30  | JKAJ MIANI .<br>DI | 132.00 |               | 132 00 |
|     | 7273  |                                                                    | 2.00 0 | 0.9990  | 131 02 | 7285 04  |                    | 132.00 | 6 0 0065      | 131 54 |
|     | 7200  |                                                                    | 2.00 0 | 0,9994  | 121 20 | 7203 QA  |                    | 122.00 | 6 0 0542      | 175 07 |
|     | 7207  | M.JALLKU 13                                                        |        | 0.9940  | 107 50 | 7200 ME  |                    | 122.00 | 6 0 0970      | 120.20 |
|     | 7209  | JALALPWL 13                                                        |        | 0.9000  | 120 47 | 7290 ME  |                    | 122.00 | 0 09070       | 125 64 |
|     | 7300  | KAPCO 13.                                                          |        | 1.0490  | 126 04 | 7220 60  |                    | 122.00 | 6 1.0273      | 125.04 |
|     | 7323  |                                                                    |        | 1 0124  | 122 64 | 7220 KB  |                    | 122.00 | 6 1.0200      | 120 20 |
| •   | /330  | MZFRGARH 13                                                        |        | 1.0124  | 133.04 | 7222 C   |                    | 122.00 | $6 \pm 0477$  | 120.30 |
|     | 1332  | N.A.WALI 13                                                        |        | 1.0320  | 130.22 | / 333 5. | SIDIN              | 100 00 | $0 \pm .0002$ | 136.09 |
|     | / 334 | M GARH NEW 13                                                      |        | 1.0105  | 134 UL | /335 KC  |                    | 132.00 | $0 \pm .03//$ | 130.90 |
| · . | /336  | KAROR L.E 13                                                       | 2.00 6 | T.0132  | 134.3/ | 7337 EP  | GL .               | 132.00 | 0 1.0200      | 122 00 |
|     | 7339  | DUMMY IND 13                                                       | 2.00 6 | 1.0136  | 133.79 | 7340 ME  |                    | 132.00 | 6 1.000/      | 122.09 |
|     | /350  | DMR WALA 13.                                                       | 2.00 6 | 1.0006  | 132.08 | 736U JA  | ATOT NR            | 132.00 | 6 1.0036      | 134.48 |
|     | 7370  | KHRPRSDT 13.                                                       | 2.00 6 | 1.0261  | ⊥35.44 | /395 SH  | HAD LND            | 132.00 | P. T. 0T88    | ⊥34.48 |

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|   |       |                        |       |        | 20     | )21-1                       | vith.t | xt          |                       |     |        |        |
|---|-------|------------------------|-------|--------|--------|-----------------------------|--------|-------------|-----------------------|-----|--------|--------|
|   | 7400  | TAUNSA 132.00          | 6     | 1.0084 | 133.12 | · . ·                       | 7435   | PARCO       | 132.00                | · 6 | 1.0106 | 133.40 |
|   | 7436  | T-PARCO 132.00         | 6     | 1.0104 | 133.38 |                             | 7440   | CHOKMNDA    | 132.00                | 6   | 1.0387 | 137.11 |
|   | 7442  | т-антм 132.00          | 6     | 1.0423 | 137.59 |                             | 7443   | AHTM        | 132.00                | . 6 | 1.0423 | 137.59 |
|   | 7450  | CHAUBARA 132.00        | 6     | 1.0373 | 136.92 |                             | 7456   | CHOKAZAM    | 132.00                | · 6 | 1.0287 | 135.79 |
|   | 7459  | KHANGARH 132.00        | 6     | 1.0060 | 132.79 |                             | 7460   | D.G.KHAN    | 132.00                | 6   | 1.0034 | 132.45 |
|   | 7462  | MDC-DGK 132.00         | 6     | 1.0091 | 133.20 |                             | 7463   | CPC-DGK     | 132.00                | 6   | 1.0041 | 132.54 |
|   | 7464  | JAMPR 66-132132.00     | 6     | 1.0038 | 132.50 |                             | 7465   | KOTCHUTA    | 132.00                | 6   | 1.0024 | 132,32 |
|   | 7466  | T-ATM 132.00           | ő     | 1.0032 | 132.42 |                             | 7467   | ATM         | 132.00                | ě   | 1.0032 | 132.42 |
|   | 7469  | СНОТТ 132 132 00       | Ğ     | 1.0060 | 132 79 | •                           | 7470   | ROTHAN      | 132.00                | Ē   | 1.0320 | 136.22 |
|   | 7473  | DA 1 A 2 2 1 3 2 00    | ő     | 1.0023 | 132 30 | · · · ·                     | 7477   | ZENEA       | 132.00                | ē   | 1.0382 | 137.04 |
|   | 7580  | CMNT_ECT 132_00        | ő     | 1.0078 | 133.03 |                             | 7590   | SKHTSRWR    | 132.00                | ĕ   | 1.0073 | 132.96 |
| • | 7650  | L SUHANRA132132 00     | 6     | 1.0237 | 135 13 |                             | 7781   | YAZMAN      | 132.00                | Ē   | 1.0221 | 134.92 |
|   | 7791  | MAROOT 132.00          | 6     | 1.0010 | 132.13 |                             | 7800   | KOTADDU     | 66.000                | Ē   | 1.0438 | 68.893 |
|   | 7831  | FATEHPUR 132.00        | ě     | 1 0181 | 134.39 | $\mathcal{T}_{i} = \{i,j\}$ | 7840   | RANGPUR     | 66.000                | ĕ   | 1.0281 | 67.857 |
|   | 7842  | T-RANGPR = 66,000      | Ğ     | 1 0417 | 68 754 |                             | 7880   | CHAURARA    | 66,000                | Ē   | 1.0360 | 68.373 |
|   | 7890  | NAWANKOT 66 000        | Ğ     | 1 0327 | 68 158 | 1.1.1                       | 7891   | T. NWANKOT  | 66.000                | Ē   | 1.0329 | 68,169 |
|   | 7909  | D G KHAN TT 132 00     | ĕ     | 1 0015 | 132,20 |                             | 7930   | JAMPUR      | 132.00                | é   | 1.0017 | 132.22 |
|   | 7933  | FAZAL PUR 132 00       | 6     | 1 0043 | 132.56 |                             | 7951   | RAJANPUR    | 132.00                | Ē   | 1.0105 | 133.39 |
|   | 7959  | TNDUS ENERGY132.00     | - Ă   | 1.0200 | 134.64 |                             | 7970   | AHMDPR - F  | 66,000                | ĥ   | 1.0029 | 66,192 |
|   | 7974  | UCH SHRE 132.00        | · ĕ   | 0 9672 | 127 67 |                             | 7975   | KOT KHALTE  | A 66.000              | Ĕ   | 0.9489 | 62.631 |
|   | 7977  | T = UCHSHE 66 000      | : 6   | 0 9829 | 64 868 |                             | 7981   |             | 132.00                | F   | 1.0212 | 134.80 |
|   | 7984  | HEAD-BI-KN 132 00      | 6     | 1 0202 | 134 67 |                             | 7996   | FORT MINRO  | 132.00                | ĥ   | 1.0075 | 132.99 |
| ŀ | 50301 | OADTRABD $T = 111 000$ | 6     | 1 0184 | 11 202 |                             | 60302  | OADTRARD T  | -211.000              | - 6 | 1.0184 | 11,202 |
| è | 50501 | BNGAHYAT $T = 111 000$ | 6     | 1 0003 | 11 003 |                             | 60502  | BNGAHYAT T  | -211,000              | - G | 0.9994 | 10,993 |
| Ĩ | 50801 | SAHTWALN T-111,000     | 6     | 0.9832 | 10.815 |                             | 60802  | SAHTWALN T  | -211.000              | Ē   | 0.9832 | 10.815 |
| è | 50803 | T-3 11.000             | Ğ     | 1.0234 | 11.258 |                             | 60901  | SAHWAL-O T  | -111.000              | Ĕ   | 1.0267 | 11.294 |
| è | 50902 | SAHWAL-0 T-211 000     | Ğ     | 1 0044 | 11 049 |                             | 60903  | SAHWAL-O T  | -311.000              | ě   | 1.0266 | 11,293 |
| è | 50951 | SWI TTT T-1 11 000     | ĕ     | 1.0256 | 11.281 |                             | 60952  | SWI TTT T-  | 2 11 000              | ĥ   | 0.9948 | 10.943 |
| è | 50953 | $T_{-3}$ 11 000        | 6     | 1 0156 | 11 171 |                             | 61001  | NOORPUR T-  | 1 11 000              | é   | 1.0200 | 11,220 |
| ÷ | 51002 | NOORPUR $T-2$ 11,000   | · · 6 | 1.0076 | 11.084 |                             | 61004  | T-3         | 11.000                | ě   | 0.9957 | 10.952 |
| Ē | 51011 | т-1 11.000             | . ő   | 1.0046 | 11.050 |                             | 61012  | T-2         | 11.000                | 6   | 1.0036 | 11.040 |
| Ē | 51201 | PAKPATAN T-111.000     | - Õ   | 0.9805 | 10.786 |                             | 61202  | ΡΑΚΡΑΤΑΝ Τ  | -211.000              | 6   | 0.9805 | 10.786 |
| 6 | 51203 | PAKPATAN T-311.000     | 6     | 0.9745 | 10.719 | · · ·                       | 61301  | HARAPPA T-  | 1 11.000              | ē   | 0.9731 | 10.704 |
| Ē | 51302 | HARAPPA T-2 11,000     | - Ĕ   | 1.0188 | 11.207 |                             | 61401  | CHCHWTNI T  | -1                    | ē   | 1.0199 |        |
| F | 51402 | CHCHWINT T-211.000     | ő     | 1.0273 | 11.301 |                             | 61403  | CHCHWTNT T  | $-\overline{3}11.000$ | ē   | 1.0151 | 11.166 |
| F | 51491 | T-1 11.000             | 6     | 0.9966 | 10.963 |                             | 61501  | SH. FAZAL T | -111.000              | ě   | 0.9614 | 10.575 |
| F | 51502 | SH. FAZAL T-211.000    | ĕ     | 0.9614 | 10.575 |                             | 61503  | т-3         | 11.000                | ē   | 1.0377 | 11.415 |
| Ē | 51601 | BUREWALA $T-111,000$   | ő     | 1.0403 | 11.443 |                             | 61602  | BURFWALA T  | -211.000              | ě   | 1.0079 | 11.087 |
| F | 51603 | BUREWALA T-311.000     | 6     | 0.9791 | 10.770 |                             | 61621  | BREWLA-O T  | -111.000              | Ğ   | 1.0125 | 11.138 |
| P | 51622 | BREWLA-0 T-211 000     | ĕ     | 1.0321 | 11.353 |                             | 61623  | Т-3         | 11.000                | ě   | 0.9618 | 10.580 |
| F | 51701 | VEHART-0 T-111 000     | 6     | 1.0073 | 11.080 |                             | 61702  | VEHART-O T  | -211.000              | - F | 1.0174 | 11.192 |
| Ē | 51703 | VEHART-T-3 11.000      | ő     | 1.0032 | 11.035 |                             | 61751  | LUDDEN T-1  | 11.000                | ē   | 0.9793 | 10.772 |
| è | 51752 | LUDDEN T-2 11 000      | . 6   | 0.9793 | 10.772 |                             | 61781  | KARAMPUR T  | -111.000              | ě   | 1.0305 | 11.335 |

ł.

|          |       |                                                                                       |                | 2021-with.txt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |
|----------|-------|---------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|          | 61782 | KARAMPUR T-211.000                                                                    | 6 1.0310 11.34 | 1 61801 ARIFWALA T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0368 11.405             |
|          | 61802 | ARIFWALA T-211.000                                                                    | 6 1.0368 11.40 | 05 61803 ARIFWALA T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 0.9953 10.949             |
|          | 61811 | т-1 11.000                                                                            | 6 0.9767 10.74 | 4 61812 T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9767 10.744             |
|          | 61821 | KAMTRW T-1 11.000                                                                     | 6 0.9885 10.87 | 73 61822 KAMTR W T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 0.9885 10.873             |
|          | 61901 | BWI_NAGR_T-111.000                                                                    | 6 0.9914 10.90 | 15  61902  T-3  11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0 9749 10 724             |
|          | 61903 | BWI NAGR T - 311 000                                                                  | 6 0 9914 10 90 | 15 61911 HOTA T-1 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 0 9746 10 720             |
|          | 61912 | HOTA T = 2 11 000                                                                     | 6 1 0255 11 28 | $\frac{11}{62001} = \frac{11}{000}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 1. 0124 11 137            |
|          | 62002 | OABULA T = 2 11 000                                                                   | 6 1 0234 11 25 | 57 = 62003  OABULA T = 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $6 \ 1 \ 0057 \ 11 \ 063$   |
|          | 62101 | $SAUUKA T_1 11 000$                                                                   | 6 1 0098 11 10 | 12 02003 0AB0LA T=3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $6 \ 1 \ 0311 \ 11 \ 342$   |
|          | 62202 | HASTIDUR $T_211 000$                                                                  | 6 0 9914 10 90 | 62102 SANOKA 1-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0 9051 10 946             |
|          | 62211 | $CHUNAW T_1 11 000$                                                                   | 6 1 0084 11 00 | $h_{3} = 62301 \text{ CUTSTIAN } \pm 111 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6 0.0001 10.040             |
|          | 62302 | CHISTIAN $T_211$ 000                                                                  | 6 0 9723 10 60 | 62302  CHISTIAN  = 11,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 0.9994 10.994             |
|          | 62221 | DHRANWALA $\pm 111$ 000                                                               | 6 0.9723 10.03 | $13 \qquad 62322  CHISTIAU   5 II.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0.900 10.022              |
|          | 62501 | MAN KOT T 1 11 000                                                                    |                | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 0.9039 10.003             |
|          | 64151 | $\begin{array}{c} \text{MAN-KUT T-1 11,000} \\ \text{CUTSTIAN T 211,000} \end{array}$ | 6 0 0778 10 75 | $6 \qquad 64101 + 60400 \pm 1.11000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 0.9991 10.990             |
|          | 64211 | V D T O T T 111 000                                                                   | 6 0.9778 10.7  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $0$ 0.9030 $\pm 0.0033$     |
|          | 64621 | K.P.IOMI I = 111.000                                                                  | 6 1 0070 11 00 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $0 0.9884 \pm 0.872$        |
|          | 04021 | NUORSAR $I = 1 11.000$                                                                |                | 57 54522 NOURSAR 1-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 1.0435 11.479             |
| è.       | 64821 | MINCHINBAD II II.000                                                                  | 6 0.9675 10.62 | 10 	 04022 	 1-2 	 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 1.0199 11.219             |
| с.<br>27 | 64881 | 1-1 11.000                                                                            |                | 17 	 04002 	 1-2 	 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 0.9767 10.744             |
| i<br>L   | 64891 | 1-1 11.000                                                                            |                | 5 04692 1-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9813 10.795             |
| -        | 64911 | MCLD.GNJ II II.000                                                                    | 6 1.0295 11.32 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 1.0232                    |
|          | 6501Z | HARONABD 1-211.000                                                                    | 6 0.9701 10.67 | 1 65013 HARONABD 1-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9701 10.671             |
| •        | 65014 | HARONABD $1-311.000$                                                                  | 6 0.9699 10.66 | 00 05121 FAQIRWLI-II 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 1.0326 II.359             |
|          | 65122 | FAQ1RWL1-12 11.000                                                                    |                | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 1.0213 11.235             |
| ġ.       | 05192 | 1-2 11.000                                                                            |                | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 0.9680                    |
| s, í     | 00212 | FORTABASI-2 11.000                                                                    | 6 0.9660 10.64 | 70001 MIANCHNU 11 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 1.0452 11.497             |
| 3        | 70002 | MIANCHNU 1-211.000                                                                    | 6 1.0235 11.25 | 70013 MIANCHNU 1-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 1.0143 11.157             |
|          | 70011 | CHAK-83-11 11.000                                                                     |                | 70012  CHAK-83-12 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | $6 \pm 0106 \pm 11.117$     |
|          | 70001 | H SIDNAL $1-111.000$                                                                  |                | $\frac{10}{100} = \frac{10002}{100} + \frac{10002}{100} + \frac{1000}{100} + \frac{1000}{100} = \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + \frac{1000}{100} + 10$                                           | 6 1.0330 11.363             |
|          | 70101 | KACHAKHU = 211,000                                                                    | 6 0.9900 10.90 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 0.9900 10.903             |
|          | 70103 | KACHAKHU = 1 - 311,000                                                                |                | 70201  KHANEWAL  1-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0037 11.041             |
|          | 70202 | $\begin{array}{c} KHANEWAL  I = 211.000 \\ KADTDW  A  T  111.000 \\ \end{array}$      | 6 1 0204 11 22 | 70203 KHANEWAL $1-311.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9979 10.977             |
|          | 70301 | KABIRWLA T 211 000                                                                    |                | 70302 KABIRWLA 1-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 1.0427 11.469             |
|          | 70303 | KABIRWLA 1-311.000                                                                    | 0 0.9898 10.88 | $\frac{1}{70401} = \frac{1}{70401} = $ | 6 1.0022 11.024             |
|          | 70322 | MP PAHOR $1-211,000$                                                                  | 6 0.9637 10.60 | 70401 GARHMORE 1-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 1.0161 11.178             |
|          | 70402 | GARHMORE I-ZII.000                                                                    | 6 0.9714 10.00 | $\frac{10}{70502} = \frac{1000}{70502} = 1000$                                                                                                           | 6 1.0092 11.101             |
|          | 70501 | JEHANIAN I-III.000                                                                    |                | $\frac{19}{20001} = \frac{1000}{20001} = \frac{11000}{20001} = \frac{110000}{20001} = \frac{11000}{20001} = \frac{11000}{20001} = \frac{11000}{20001} = \frac{11000}{20001} = \frac{11000}{20001} = \frac{11000}{20001} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{20000} = \frac{11000}{2000} = \frac{11000}{2000} = \frac{11000}{20000} = \frac{11000}{20000}$                                                                                                                                 | 0 1.0418 11.459             |
|          | 70503 | JEHANIAN $I = 311,000$                                                                |                | 70001 CHAK.211 I-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 1.0359 11.394             |
|          | 70602 | CHAK ZII 1-ZII.000                                                                    | 0 1.0338 11.37 | 2 70003 CHAK 211 1-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $b \perp .043b \perp 1.480$ |
|          | 70701 | MAILSI I-I 11.000                                                                     | 0 1.0439 11.48 | 55 /U/UZ MAILSI I-Z 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0439 11.483             |
|          | 70703 | MAILSI T-3 11.000                                                                     | b 1.0408 11.44 | 9 70751 MUKHDM.R T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0033 11.036             |
|          | /0/52 | MUKHDM.R T-211.000                                                                    | b U.9852 10.83 | 71102 BASTIMLK T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 I 0095 II 105             |
|          | 71102 | BASTIMLK T-211.000                                                                    | 6 1.00/5 11.08 | 55 71103 BASTIMLK T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 1.0075 11.083             |

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|-----------------------------------------------------|------------------------------------|------------------------------------------------------|-----------------|
| 71151 MIRAN P T-1 11.000                            | 6 1.0110 11.121                    | 71152 MIRAN P T-2 11.000                             | 6 1.0110 11.121 |
| 71201 LODHRAN T-1 11.000                            | 6 1.0241 11.265                    | 71202 LODHRAN T-2 11.000                             | 6 1.0241 11.265 |
| 71203 LODHRAN T-3 11.000                            | 6 1.0339 11.372                    | 71251 LART-1 11.000                                  | 6 0.9986 10.985 |
| 71252 LAR T-2 11.000                                | 6 0.9986 10.985                    | 71301 BU.JADID T-111.000                             | 6 1.0140 11.154 |
| 71302 BU.JADID T-211.000                            | 6 0.9749 10.724                    | 71401 BHAWALPR T-111.000                             | 6 1.0310 11.341 |
| 71402 BHAWALPR T-211.000                            | 6 1.0293 11.322                    | 71403 BHAWALPR T-311,000                             | 6 1 0178 11 196 |
| 71405 BWP 66.000                                    | 6 1 0198 67 304                    | 71451 BP CANTE T-111 000                             | 6 1 0089 11 098 |
| 71452 BPCANTT T-2 11 000                            | 6 1 0089 11 098                    | 71471  KARORPCA  T = 111,000                         | 6 1 0167 11 184 |
| 71472 KARORPCA T-211 000                            | 6 1 0385 11 423                    | 71473 KARORICA T 111,000                             | 6 1 0152 11 167 |
| 71491 DUNYAPUR T-311 000                            | 6 1 0169 11 186                    | 71473 RAROKECA 1-311.000<br>71/02 DUNVADUD T_/11 000 | 6 1 0160 11 186 |
| 71501 SAMASATA T-111 000                            | 6 0 9670 10 637                    | 71502 CONTAPOR 1-411.000<br>71502 CAMASATA T_211 000 | 6 0 9670 10 637 |
| 71501 SAMASATA T 111.000<br>71501 MUR_DUR_T1 11.000 | 6 0.9070 10.037                    | 71502 SAMASATA 1~211.000<br>71502 MUD DUD T2 11 000  | 6 0.9070 10.037 |
| $71601 + TACATOR T_111 000$                         | 6 0.9709 10.079<br>6 0.9816 10.707 | 71502 MUD-PUR-12 11.000<br>71602 1 TACATED T 211 000 | 6 0.9709 10.079 |
| 71702 AUMODD E T 211 000                            |                                    | 71702 LIAUATPK 1-211.000                             | 0 0.9010 10.797 |
| 71702 AHMOPRE 1-211.000<br>71704 AHMOPRE T4 11 000  | 6 1 0041 11 045                    | 71705 AHMDPR.E 1-511.000<br>71901 EEDOZA T 1 11 000  |                 |
| 71704 AMMUPR.E 14 11.000<br>71802 FEDOZA T 2 11 000 | 0 1.0041 11.045                    | 71801 FERUZA 1-1 11.000                              | 6 1.0453 11.498 |
| 71002 FERUZA $1-2$ II.000                           | 0 1.0339 11.373                    | 71851 KHANBELA 1-111.000                             | 6 0.9646 10.610 |
| 71002 KHANBELA I-Z                                  | 6 1.0416                           | 72001 KHANPUR T-1 11.000                             | 6 0.9608 10.569 |
| 72002 KHANPUR 1-2 11.000                            | 6 0.9648 10.613                    | 72003 KHANPUR T-3 11.000                             | 6 0.9/6/ 10./44 |
| 72101 MWQRSHIA 1-111.000                            | 6 1.0415 11.456                    | 72102 MWQRSHIA T2 11.000                             | 6 1.0281 11.309 |
| 72103 1-3 11.000                                    | 6 1.0358 11.394                    | 72201 R.Y.KHAN T-111.000                             | 6 1.0074 11.081 |
| 72202 R.Y.KHAN T-211.000                            | 6 0.9701 10.672                    | 72203 R.Y.KHAN T-311.000                             | 6 1.0128 11.141 |
| 72204 T-4 11.000                                    | 6 0.9998 10.998                    | 72251 R.Y.KHN2 T-111.000                             | 6 0.9828 10.811 |
| 72252 R.Y.KHN2 T-211.000                            | 6 0.9816 10.797                    | 72253 T-3 11.000                                     | 6 0.9636 10.600 |
| 72291  T-1 11.000                                   | 6 0.9962 10.958                    | 72292 т-2 11.000                                     | 6 0.9962 10.958 |
| 72301 SADIQABD T-111.000                            | 6 1.0279 11.307                    | 72302 SADIQABD T-211.000                             | 6 1.0279 11.307 |
| 72303 SADIQABD T-311.000                            | 6 1.0423 11.465                    | 72304 LALPIR 11.000                                  | 6 1.0174 11.191 |
| 72311 WALANA T-1 11.000                             | 6 1.0116 11.127                    | 72312 WALANA T-2 11.000                              | 6 1.0161 11.178 |
| 72351 NAWAZ T-1 11.000                              | 6 0.9817 10.799                    | 72352 NAWAZAB T-2 11.000                             | 6 1.0132 11.145 |
| 72401 J.D.WALI T-111.000                            | 6 0.9862 10.849                    | 72402 JDWALI T-2 11.000                              | 6 0.9615 10.577 |
| 72403 J D WALI T-311.000                            | 6 1.0303 11.333                    | 72501 MN.KH.RD T-111.000                             | 6 1.0079 11.086 |
| 72502 MN.KH.RD T-211.000                            | 6 1.0079 11.086                    | 72503 MN.KH.RD T-311.000                             | 6 1.0079 11.086 |
| 72551 WAP TO T-1 11.000                             | 6 1.0279 11.307                    | 72552 wapda to t-211.000                             | 6 1.0020 11.022 |
| 72554 T-3 11.000                                    | 6 0.9940 10.934                    | 72601 MN.BS.RD T-111.000                             | 6 1.0016 11.018 |
| 72602 MN.BS.RD T-211.000                            | 6 0.9619 10.581                    | 72603 MN.BS.RD T-311.000                             | 6 1.0016 11.018 |
| 72611 PNJB HSG T-111.000                            | 6 1.0085 11.094                    | 72612 PNJB HSG T-211.000                             | 6 1.0085 11.094 |
| 72621 BUCH VLS T-111.000                            | 6 1.0219 11.241                    | 72651 Q BAGH T-1 11.000                              | 6 0.9785 10.763 |
| 72652 Q BAGH T-2 11.000                             | 6 0.9852 10.837                    | 72691 T-1 11.000                                     | 6 0.9838 10.821 |
| /2692 T-2 11.000                                    | 6 0.9838 10.821                    | 72701 MLN-IND T-1 11.000                             | 6 1.0269 11.296 |
| /2/02 MLN-IND T-2 11.000                            | 6 0.9640 10.604                    | 72703 MLN-IND T-3 11,000                             | 6 1.0155 11.170 |
| 72731 SURJ MNI T-111.000                            | 6 1.0307 11.338                    | 72732 SURJ MNI T-211.000                             | 6 1.0171 11.189 |
| 72801 MN.VR.RD T-111.000                            | 6 0.9975 10.972                    | 72802 MN.VR.RD T-211.000                             | 6 1.0271 11.298 |
| 72803 MN.VR.RD T-311.000                            | 6 1.0117 11.129                    | 72851 QASIMPUR T-111.000                             | 6 1.0091 11.100 |
| 72852 QASIMPUR T-211.000                            | 6 0.9593 10.553                    | 72853 OASTMPUR T-311.000                             | 6 1.0171 11 188 |

|    |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2021                               | -with.txt                                              |                                    |
|----|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------|------------------------------------|
|    | 72871          | M.J RD T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 0.9666 10.632                    | 72872 M.J.RD T-2 11.000                                | 6 0.9666 10.632                    |
|    | 72881          | SHUJABAD T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0063 11.069                    | 72882 SHUJABAD T-211.000                               | 6 1.0069 11.076                    |
|    | 72883          | SHUJABAD T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9833 10.817                    | 72891 J.P.W T-1 11.000                                 | 6 1.0145 11.160                    |
|    | 72892          | 1 P W T - 2 = 11,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 1.0126 11.138                    | 72893 J.P.W T-3 11,000                                 | 6 1.0256 11.282                    |
|    | 72901          | MESCO T-1 $11.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9874 10.862                    | 72902 MESCO T-2 11.000                                 | 6 1 0387 11 425                    |
|    | 72903          | MESCO T-3 $11,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0094 11.103                    | 73201  GUIRAT  S  T1 11.000                            | 6 1 0165 11 182                    |
|    | 73202          | GUIRAT S T3 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1 0257 11 283                    | 73203  GUIRAT S T2 11 000                              | 6 1 0167 11 184                    |
|    | 73251          | 1  AVVAH  T = 1  11  000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | $6 \ 1 \ 0325 \ 11 \ 357$          | $73252 + AVYAH T_2 11 000$                             | 6 1 0325 11 357                    |
|    | 73253          | 1  AVVAH  T = 3  11  000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | $6 \ 1 \ 0333 \ 11 \ 366$          | 73281  KBGASHER  T = 111 000                           | $6 \ 1 \ 0162 \ 11 \ 178$          |
|    | 73233          | $K_{RCASHER} = 211,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $6 \ 1 \ 0173 \ 11 \ 190$          | 73201 KBGASHER T 111.000                               | 6 0 9822 10 804                    |
|    | 73202          | MZERGARH $T_211,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 0 9813 10 794                    | 73303  MZERGARH  T = 311 000                           | 6 0 9822 10.004                    |
|    | 72212          | $K_{0}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1 0460 11 506                    | 73313 KOTADU-O T-311 000                               | 6 1 0.3022 10.004                  |
|    | 73314          | KOTADU=0 T=211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $6 \ 1 \ 0269 \ 11 \ 296$          | 73321 N A WALT T=211 000                               | 6 1 0216 11 238                    |
|    | 72277          | N A WALT $T_{-111} 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $6 \ 1 \ 0265 \ 11 \ 288$          | 73321 N.A.WALL $1-211.000$                             | 6 1 0078 11 086                    |
|    | 72222          | $R_{A}$ , WALL $T^{-111}$ , 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 0 9883 10 871                    | 73351 VOTSULTAN T111 000                               | 6 1 0070 11.000                    |
|    | 72252          | 2550101211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | $6 \ 1 \ 0.307 \ 11 \ 137$         | 73361 VADOD I = T111 000                               | 6 0 0002 10 002                    |
|    | 72222          | KUISULIAN-IZII.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0 0003                           | 73701 MEUDVUAS T 111.000                               | 6 0.9995 10.992                    |
|    | 72402          | $\frac{1}{1000} \frac{1}{1000} | 6 0 0760 10 746                    | 73401 MEHRKHAS I-III.000<br>73403 MEUDKUAS T 2         | 6 0 0001                           |
| 2  | 72501          | DMP WALA = 111 OOO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $6 \ 1 \ 0162 \ 11 \ 178$          | 73403 MERKERAS 1-3<br>73502 DMD WALA T 211 000         | 6 0.9901                           |
| ~  | 700UL          | DMR WALA $1-111.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 0 0025 10 018                    | 73502 DMK WALA $1-211.000$                             | 6 0.9974 10.971                    |
| ż. | 73601          | $T_{2}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 0 0.9923 10.910                  | 73701 KURDESDT T 111 000                               | 0 0.9009 10.000                    |
|    | 73003          | 1-3 $11.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 0.3044 10.020<br>6 1 0000 11 045 | 73701 KHKPKSD1 1-111.000<br>73051 CHA LND T 1 11 000   | 0 1.0210 11.231<br>6 1 0122 11 125 |
|    | 72052          | $CHA IND T_2 11,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 0 9874 10 862                    | 73331 SHALLND I I II.000                               |                                    |
|    | 74002          | $T_{ALINGA} T_{-2} = 11,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 0.9074 10.002                    | 74001 TAUNSA T-1 11.000                                | 6 1 0147 11 161                    |
|    | 74002          | $TAUNSA T^2 II.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | $6 \ 1 \ 0.285 \ 11 \ 213$         | 74003 1-3 11.000<br>74402 CUOKMNDA + 211.000           |                                    |
| 17 | 74401          | CHORMINDA T $^{-111}$ ,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | $6 \ 1 \ 0.203 \ 11 \ 313$         | 74402 CHORMINDA $1-211.00074562 CHORAZAM \pm 1.11.000$ | $0 \pm 0229 \pm 2.022$             |
| ÷. | 74302          | $T_{2}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1 0126 11 140                    | 74502 CHURAZAM 11 11.000                               | 0 1.0392 11.432                    |
|    | 74303          | 1-3 II.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0 0818 10 800                    | 74591 RHANGARH 1-111.000                               | 6 0.9/95 10.7/5                    |
|    | 74392          | $P_{\rm C}$ KHAN T-311 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0081 11 080                    | 74002 D.G. KHAN T $411,000$                            | 6 0.0055 11.056                    |
|    | 74005          | $T_{1}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 0 0037 10 031                    | 74004  D.G. KHAN $1-411,000$                           | 6 0.9954 10.949                    |
|    | 74041          | $V_{0}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0 0842 10 826                    | 74031 KOTCHUTTA T211 000                               | 6 0.9042 10.020                    |
| •  | 74032          | CUOTT T 1 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 0 0004 10 804                    | 74033 KOTCHUTTA 1311.000<br>74701 ROTCHUTTA 1311.000   | 6 1 0027 11 020                    |
|    | 74091          | T = 1 = 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 0.9904 10.894                    | $74701 \text{ KUJHAN } 1-1 111000^{\circ}$             | 6 0.0027 11.030                    |
|    | 75002          | $1^{-1}$ 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 0.9923 10.917                    | 73901 SKHISKWK 1-111.000<br>77811 VAZMAN T 1 11 000    | 6 1 0014 11 016                    |
|    | 73902          | SKISKWR $1-2$ II.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 1 0014 11 016                    | 77011 MAROOT T1 11.000                                 | 6 1.0014 11.010                    |
|    | 77012          | YAZMAN $1-2$ 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 1 0014 11.010                    | 77911 MAROUT II 11.000                                 | 6 0.9901 10.891                    |
|    | 70212          | MAROUT = 2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 1 0107 11 017                    | 70311 FAIEHPUR I-111.000<br>70212 T 2 11 000           | 6 1 0410 11 461                    |
|    | 701            | $T_{1}$ T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1 T1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1 0052 11 059                    | 70313 1-3 11.000<br>72001 NAWANKOT T 111.000           |                                    |
|    | 70401          | 11 	 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 1 0002 11.000                    | 70901 NAWANKUT 1-111.000                               | 6 1.0202 11.222                    |
|    | 79091          | $\begin{array}{c} D.G.K.II  I^{-}III.VUU\\ IAMDUD  T  1  11  000 \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $0 \pm .0210 \pm 1.240$            | 73032 D.G.K.II $1-211.000$                             |                                    |
|    | 793UL          | $\begin{array}{cccc} JAMPUK & I^{-1} & II & OOO \\ FAZALDUD & T & III & OOO \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | $0$ 0.3003 $\pm 0.073$             | 70222 FAZALDUD T 211 000                               |                                    |
|    | /9331<br>70511 | FAZALPUK I-III.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0 0.3331 10.940<br>6 1 0020 11 043 | 70512 FAZALPUK I-ZII.UUU                               |                                    |
|    | 79511<br>70512 | RAJANPUK I-III.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0 1.0039 11.043<br>6 0 0769        | 79312 KAJANPUK I-211.000                               | 6 1 0104 11 114                    |
|    | 79213          | KAJANPUK 1-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 0.9/00                           | /9/41 UCH.SHKF I-211.000                               | 0 1.0104 11.114                    |

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2021-with.txt

|                     |           |              |                          | - |        |                      |
|---------------------|-----------|--------------|--------------------------|---|--------|----------------------|
| 79742 UCH.SHRF T-31 | 1.000 60  | .9878 10.866 | 79743 UCH.SHRF T-111.000 | 6 | 1.0171 | 11.188               |
| 79751 UCH (KF) T-11 | 1.000 6 1 | .0116 11.128 | 79752 T-2                | 6 | 0.9637 |                      |
| 79811 ALI PUR T-1 1 | 1.000 6 1 | .0016 11.018 | 79812 ALIPUR T-2 11.000  | 6 | 0.9706 | 10.677               |
| 79813 ALIPUR T-3 1  | 1.000 6 1 | .0130 11.144 | 79841 H.R. KAN T1 11.000 | 6 | 1.0387 | 11.425               |
| 79842 T-2 1         | 1.000 6 1 | .0052 11.058 | 79961 FRT MNRO T-111.000 | 6 | 1.0039 | 11.043               |
| 732512 LSM-132KV 1  | 32.00 6 1 | .0303 136.00 |                          |   |        | 4 <sup>- 1</sup> - 1 |

#### 2022-WITHOUT.txt

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS(R)E TUE, JAN 26 2021 11:38 MEPCO-2022-REVISED-DIIP-WITHOUT

#### BUSES WITH VOLTAGE GREATER THAN 2.0000:

BUS# X-- NAME -- X BASKV AREA V(PU) V(KV) BUS# X-- NAME -- X BASKV AREA V(PU) V(KV)

\* NONE \* '

#### BUSES WITH VOLTAGE LESS THAN 1.7000:

| BUS#  | X NAME>      | X BASKV | AREA | V(PU)  | V(KV)  | BUS# | X NAME>     | X BASKV | AREA | V(PU)  | V(KV)  |
|-------|--------------|---------|------|--------|--------|------|-------------|---------|------|--------|--------|
| 104   | T-OFF BUKSH  | 466.000 | .6   | 0.9175 | 60.556 | 304  | т-1         | 11.000  | 6    | 0.9074 | 9.981  |
| 401   | т-3          | 11.000  | 6    | 0.9853 | 10.839 | 502  | т-3         | 11.000  | 6    | 0.9912 | 10.903 |
| 529   | PARCO        | 220.00  | 6    | 1.0386 | 228.50 | 5282 | FATMA ENERG | Y132.00 | 6    | 1.0200 | 134.64 |
| 5283  | FAZAL CLOTH  | 132.00  | 6    | 1.0193 | 134.55 | 6030 | QADIRABD    | 132.00  | 6    | 1.0305 | 136.03 |
| 6050  | BNGAHYAT     | 132.00  | 6    | 1.0139 | 133.84 | 6070 | YOUSFWLA    | 132.00  | 6    | 1.0239 | 135.16 |
| 6080  | SAHIWALN     | 132.00  | 6    | 1.0164 | 134.16 | 6090 | SAHIWAL-O   | 132.00  | 6    | 1.0153 | 134.02 |
| 6095  | SAHIWAL III  | 132.00  | 6    | 1.0128 | 133.69 | 6100 | NOORPUR     | 132.00  | 6    | 1.0133 | 133.75 |
| 6101  | PAKPATTAN-2  | 132.00  | 6    | 1.0092 | 133.22 | 6120 | PAKPATAN    | 132.00  | 6    | 0.9863 | 130.20 |
| 6130  | HARAPPA      | 132.00  | 6    | 0.9970 | 131.60 | 6140 | CHCHWTNI    | 132.00  | 6    | 0.9981 | 131.75 |
| 6149  | KASOWAL132   | 132.00  | - 6  | 0.9964 | 131.52 | 6150 | SH.FAZAL    | 132.00  | 6    | 0.9691 | 127.92 |
| 6160  | BUREWALA     | 132.00  | 6    | 0.9603 | 126.76 | 6162 | BREWLA-O    | 132.00  | 6    | 0.9525 | 125.73 |
| 6169  | VEHARI-N     | 132.00  | - 6  | 0.9945 | 131.27 | 6170 | VEHARI-O    | 132.00  | 6    | 0.9901 | 130.70 |
| •6175 | LUDDEN       | 132.00  | 6    | 0.9710 | 128.18 | 6178 | KARAMPUR    | 132.00  | 6    | 0.9602 | 126.74 |
| 6180  | ARIFWALA     | 132.00  | 6    | 0.9650 | 127.39 | 6181 | ARIFWALA-2  | 132.00  | 6    | 0.9649 | 127.36 |
| 6182  | KAMIRWALA    | 132.00  | 6    | 0.9822 | 129.64 | 6190 | BWL.NAGR    | 132.00  | 6    | 0.9676 | 127.72 |
| 6191  | HOTA         | 132.00  | 6    | 0.9583 | 126.50 | 6200 | QABULA      | 132.00  | 6    | 0.9573 | 126.36 |
| 6210  | SAHUKA       | 132.00  | 6    | 0.9564 | 126.25 | 6220 | HASILPUR    | 132.00  | 6    | 0.9697 | 128.00 |
| 6221  | CHUNAWALA    | 132.00  | 6    | 0.9684 | 127.83 | 6230 | CHISTIAN-O  | 132.00  | 6    | 0.9792 | 129.25 |
| 6231  | CHSTAN-N     | 132.00  | 6    | 0.9853 | 130.06 | 6232 | DHARWALA132 | 132.00  | 6    | 0.9731 | 128.45 |
| 6250  | MAN-KOT      | 132.00  | 6    | 0.9930 | 131.07 | 6410 | HASILPUR    | 66.000  | 6    | 0.9501 | 62.708 |
| 6415  | CHISTIAN     | 66.000  | 6    | 0.8962 | 59.148 | 6419 | L.SOHANRA   | 132.00  | 6    | 0.9863 | 130.19 |
| 6420  | BEST-GREEN   | 132.00  | 6    | 1.0121 | 133.59 | 6421 | K.P.TOMI    | 132.00  | 6    | 0.9742 | 128.59 |
| 6422  | APPOLO-SOLAI | R132.00 | . 6  | 1.0100 | 133.32 | 6462 | NOORSAR     | 132.00  | 6    | 0.9778 | 129.07 |
| 6482  | MNCHNBAD     | 132.00  | 6    | 0.9538 | 125.91 | 6488 | BWL NAGAR-2 | 132.00  | 6    | 0.9733 | 128.48 |
| 6489  | DONGA BNGA   | 132.00  | 6    | 0.9628 | 127.09 | 6491 | MCLD.GNJ    | 132.00  | 6    | 0.9501 | 125.42 |
| 6501  | HARONABD     | 132.00  | 6    | 0.9654 | 127.43 | 6512 | FAQIRWLI    | 132.00  | 6    | 0.9471 | 125.02 |
| 6519  | KHICHIWALA   | 132.00  | 6    | 0.9373 | 123.73 | 6521 | FORTABAS    | 132.00  | 6    | 0.9349 | 123.41 |
| 6666  | ΜΗ ΤΑΝ-Ν     | 132.00  | 6    | 1.0094 | 133.24 | 7000 | MTANCHNU    | 132.00  | 6    | 0.9725 | 128.37 |

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| 7001 | CHAK-83-132  | 132 00  | 6 0 9885 | 2022-WIT         | HOUT.txt<br>7002 KASSOWAL        | 132_00  | 6 1,0085      | 133.13 |
|------|--------------|---------|----------|------------------|----------------------------------|---------|---------------|--------|
| 7001 |              | 132.00  | 6 0 9666 | 127 59           | 7010 KACHAKHU                    | 132.00  | 6 0 9649      | 127.37 |
| 7020 |              | 132.00  | 6 0 9763 | 128 87           | 7029 FAULT-K                     | 132.00  | 6 1 0000      | 132.00 |
| 7030 | KARTRW/LA    | 132.00  | 6 0 9707 | 128 14           | 7032 MP PAHOR                    | 132 00  | 6 0.9627      | 127.08 |
| 7040 | GARHMORE     | 132 00  | 6 0.9732 | 128.46           | 7042 B-BANGLA                    | 132.00  | 6 0.9624      | 127.04 |
| 7050 | 1FHANTAN     | 132.00  | 6 0.9685 | 127.84           | 7060 CHAK.211                    | 132.00  | 6 0.9559      | 126.17 |
| 7070 | MATIST       | 132.00  | 6 0.9603 | 126.75           | 7075 MUKHDM.R                    | 132.00  | 6 0.9689      | 127.89 |
| 7100 | P.GATR-1     | 132.00  | 6 1.0024 | 132.31           | 7109 P.GATB-2                    | 132.00  | 6 0.9932      | 131.11 |
| 7110 | BASTIMIK     | 132.00  | 6 0.9671 | 127.66           | 7115 MIRAN PUR                   | 132.00  | 6 0.9690      | 127.91 |
| 7120 | LODHRAN      | 132.00  | 6 0.9952 | 131.37           | 7123 BUKSHAN 66KV                | /66.000 | 6 0.9170      | 60.521 |
| 7125 | LAR          | 132.00  | 6 0.9704 | 128.09           | 7130 BU.JADID                    | 132.00  | 6.0.9941      | 131.22 |
| 7138 | BWPN-2       | 132.00  | 6 0.9987 | 131.83           | 7139 B.W.P-N                     | 132.00  | 6 1.0284      | 135.75 |
| 7140 | BHAWALPR     | 132.00  | 6 1.0103 | 133.36           | 7145 BPUR CANTT                  | 132.00  | 6 1.0236      | 135.12 |
| 7146 | CREST-ENERGY | (132.00 | 6 1.0200 | 134.64           | 7147 KARORPCA                    | 132.00  | 6 0.9632      | 127.15 |
| 7148 | QAD-SOL-I    | 132.00  | 6 1.0191 | 134.52           | 7149 DUNYAPUR                    | 132.00  | 6 0.9482      | 125.16 |
| 7150 | SAMASATA     | 132.00  | 6 0.9892 | 130.57           | 7159 MUB-PUR                     | 132.00  | 6 0.9775      | 129.03 |
| 7160 | LIAQATPR     | 132.00  | 6 0.9782 | 129.12           | 7170 AHMDPR.E                    | 132.00  | 6 0.9714      | 128.22 |
| 7175 | RYK-PP       | 132.00  | 6 1.0100 | 133.32           | 7180 FEROZA                      | 132.00  | 6 1.0107      | 133.41 |
| 7185 | KHANBELA     | 132.00  | 6 0.9924 | 131.00           | 7190 HAMZA-PP                    | 132.00  | 6 1.0000      | 132.00 |
| 7200 | KHANPUR      | 132.00  | 6 1.0010 | 132.13           | 7210 MWQRSHIA                    | 132.00  | 6 0.9840      | 129.89 |
| 7220 | R.Y.KHAN     | 132.00  | 6 0.9996 | 131.95           | 7221 RYK-NEW                     | 132.00  | 6 1.024/      | 135.26 |
| 7225 | R.Y.KHN2     | 132.00  | 6 0.9918 | 130.92           | 7229 RYK-3                       | 132.00  | 6 1.0034      | 132.44 |
| 7230 | SADIQABD     | 132.00  | 6 1.01// | 134.33           | 7231 SANJARPUR                   | 132.00  | 6 1.0221      | 134.91 |
| 1232 | JDW II USM F | P132.00 | 6 1.0300 | 135.96           | 7235 NAWAZABD                    | 132.00  | 6 1.0211      | 122 72 |
| 1231 | RTF          | 132.00  | 6 1.0144 | 133.90           | 7240 J.D.WALL                    | 132.00  | $6 \pm .0030$ | 121.73 |
| 7250 | MN.KH.RD     | 132.00  | 6 1.0058 | 132.70           | 7255 WAPDAIWN                    | 132.00  | 6 0.9941      | 127 25 |
| 7260 | MN.BS.RD     | 132.00  | 6 0.9878 | 130.39           | 7261 PUNJAB HUSNU                | 122.00  | 6 0 0807      | 130 61 |
| 7262 | BUCH VILLAS  | 122.00  | 6 0 9005 | 121 20           | 7203 QASIMBGH                    | 122.00  | 6 0 0004      | 130.04 |
| 7209 | RAWAN RUAD   | 132.00  | 6 0 9954 | 131.39<br>130.74 | 7270 MEN-IND<br>7273 SUDAI MTANT | 132.00  | 6 0 9882      | 130.74 |
| 7275 |              | 132.00  | 6 0 9904 | 130.74           | 7273 SURAJ MIANI                 | 132.00  | 6 0 9806      | 129 44 |
| 7280 |              | 132.00  | 6 0 9902 | 130.03           | 7285 OASTMPLIE                   | 132.00  | 6 0 9871      | 130 29 |
| 7287 | M JATIRD     | 132.00  | 6 0 9841 | 129 90           | 7288 SHUJABAD                    | 132 00  | 6 0.9417      | 124.31 |
| 7289 |              | 132.00  | 6 0 9377 | 123 78           | 7290 MESCO                       | 132.00  | 6 0.9766      | 128.91 |
| 7300 | KAPCO        | 132.00  | 6 1 0490 | 138.47           | 7320 GUIRAT S                    | 132.00  | 6 1.0215      | 134.84 |
| 7325 |              | 132.00  | 6 1.0279 | 135.68           | 7328 KBGASHER                    | 132.00  | 6 1.0231      | 135.04 |
| 7330 | MZFRGARH     | 132.00  | 6 1.0021 | 132.27           | 7331 KOTADU-0                    | 132.00  | 6 1.0475      | 138.28 |
| 7332 | N.A.WALI     | 132.00  | 6 1.0315 | 136.16           | 7333 S.S.DIN                     | 132.00  | 6 0.9961      | 131.49 |
| 7334 | M GARH NEW   | 132.00  | 6 1.0056 | 132.74           | 7335 KOTSULTAN                   | 132.00  | 6 1.0359      | 136.74 |
| 7336 | KAROR L.E    | 132.00  | 6 1.0159 | 134.10           | 7337 EPGL                        | 132.00  | 6 1.0200      | 134.64 |
| 7339 | DUMMY IND    | 132.00  | 6 1.0042 | 132.55           | 7340 MEHRKHAS                    | 132.00  | 6 0.9729      | 128.43 |
| 7350 | DMR WALA     | 132.00  | 6 0.9688 | 127.88           | 7360 JATOIJNB                    | 132.00  | 6 0.9652      | 127.40 |
| 7370 | KHRPRSDT     | 132.00  | 6 0.9790 | 129.22           | 7395 SHAD.LND                    | 132.00  | 6 1.0179      | 134.36 |

|   |         |                           | 2022-WT                     | THOUT tyt                                        |                            |
|---|---------|---------------------------|-----------------------------|--------------------------------------------------|----------------------------|
|   | 7400    | TAUNSA 132 $\Omega\Omega$ | 6 1 0071 132 94             | 7435 PARCO 132 00                                | 6 1 0098 133 30            |
|   | 7400    | $T_{\text{DARCO}}$ 132.00 | $6 \ 1 \ 0.006 \ 133 \ 27$  | 7/10 CHOKMNDA 132.00                             | 6 1 0373 136 03            |
|   | 7430    | T = PARCO = 132.00        | $6 \ 1 \ 0.414 \ 1.37 \ 47$ | 7440 CHORMINDA 132.00<br>7443 AUTM 122.00        | 6 1 0/1/ 127 / 6           |
|   | 7442    | 1-AHIM 132.00             | $0 \pm 0414 \pm 57.47$      | 7445 ARIM 152.00                                 |                            |
|   | 7450    | CHAUBARA 132.00           | 6 1.0348 136.39             | 7456 CHUKAZAM 132.00                             | 6 1.0258 135.41            |
|   | • / 459 | KHANGARH 132.00           | 6 0.9851 130.04             | 7460 D.G.KHAN 132.00                             | 6 0.9984 131.78            |
|   | 7462    | MDC-DGK 132.00            | 6 1.0054 132.72             | 7463 CPC-DGK 132.00                              | 6 0.9994 131.93            |
|   | 7464    | JAMPR 66-132132.00        | 6 0.9948 131.32             | 7465 KOTCHUTA 132.00                             | 6 0.9965 131.53            |
|   | 7466    | т-атм 132.00              | 6 0.9979 131.72             | 7467 ATM 132.00                                  | 6 0.9978 131.71            |
|   | 7469    | CHOTI 132 132.00          | 6 1.0013 132.18             | 7470 ROJHAN 132.00                               | 6 1.0315 136.16            |
|   | 7473    | DAJAL132 132.00           | 6 0.9933 131.11             | 7477 ZENFA 132.00                                | 6 1.0357 136.72            |
|   | 7580    | CMNT.FCT 132.00           | 6 1.0038 132.51             | 7590 SKHISRWR 132.00                             | 6 1.0038 132.50            |
|   | 7650    | L.SUHANRA132132.00        | 6 1.0218 134.87             | 7781 YAZMAN 132.00                               | 6 1.0140 133.84            |
|   | 7791    | MAROOT 132.00             | 6 0.9416 124.30             | 7800 KOTADDU 66.000                              | 6 1.0432 68.854            |
|   | 7831    | FATEHPUR 132.00           | 6 1.0143 133.89             | 7840 RANGPUR 66.000                              | 6 1.0262 67.727            |
|   | 7842    | T-RANGPR 66.000           | 6 1.0409 68.702             | 7880 CHAUBARA 66.000                             | 6 1.0333 68.199            |
|   | 7890    | NAWANKOT 66.000           | 6 1.0298 67.966             | 7891 T.NWANKOT 66.000                            | 6 1.0300 67.978            |
|   | 7909    | D.G.KHAN TT 132.00        | 6 0.9967 131.56             | 7930 JAMPUR 132.00                               | 6 0.9999 131.99            |
| r | 7933    | FAZAL PUR 132.00          | 6 1.0028 132.37             | 7951 RAJANPUR 132.00                             | 6 1,0098 133,30            |
|   | 7959    | TNDUS ENERGY132.00        | 6 1.0200 134.64             | 7970 AHMDPR F 66.000                             | 6 0 9933 65 559            |
|   | 7974    | HCH SHRE = 132.00         | 6 0.9609 126.83             | 7975 KOT KHALTEA 66.000                          | 6 0 9341 61 648            |
|   | 7977    | T = UCHSHE 66.000         | 6 0.9707 64.063             | 7981 ALT PUR 132 00                              | 6 0 9747 128 67            |
|   | 7984    | HEAD - RI - KN = 132.00   | 6 1.0120 133.58             | 7996 FORT_MINRO 132.00                           | 6 1 0040 132 52            |
|   | 60301   | OADTRABD $T = 111,000$    | 6 1.0097 11.106             | 60302 OADTRARD T-211,000                         | 6 1 0097 11 106            |
|   | 60501   | BNGAHVAT $T = 111 000$    | 6 0 9910 10 901             | 60502 BNGAHYAT T-211 000                         | 6 0 9892 10 881            |
|   | 60801   | SAHTWALN T = 111 000      | 6 0 9743 10 717             | 60802 SAHTWALN T-211 000                         | 6 0 9743 10 717            |
|   | 60803   | $T_{-3}$ 11 000           | 6 1 0174 11 191             | 60901 SAHWAL-0 T-111 000                         | $6 \ 1 \ 0.187 \ 11 \ 205$ |
| • | 600000  | SAUWAL = 0 T = 211 000    | 6 0 9969 10 966             | 60903 SAHWAL O T 311 000                         | 6 1 0186 11 205            |
|   | 600502  | $SMI TTT T_1 11 000$      | $6 \ 1 \ 0170 \ 11 \ 187$   | 60952 SWI TT T-2 11 000                          | 6 0 9871 10 858            |
|   | 600531  | $T_{-3}$ 11 000           | 6 1 0085 11 093             | 61001 NOOPDUP T-1 11 000                         | $6 \ 1 \ 0110 \ 11 \ 121$  |
|   | 61002   | $N_{0}$                   | 6 0 9001 10 900             | $61004 \text{ T}_{-3}$ 11 000                    | 6 0 0880 10 868            |
|   | 61011   | $T_{-1}$ 11 000           | 6 0 9978 10 976             | $61012 T_2 2$ 11 000                             | 6 0.9000 10.000            |
|   | 612011  | T = 1 $T = 11,000$        | 6 0.9700 10.570             | 61202 DAVDATAN T-211 000                         | 6 0.9500 10.905            |
|   | 61201   | PARPATAN $T = 111.000$    | 6 0.9700 10.070             | 61201  LARADDA T  1 11 000                       | 6 0.9700 10.070            |
|   | 01203   | PARPARAN $1 - 511.000$    | 6 0.9040 10.003             | 61401 CUCUMENT T 1                               | 0 0.9055 I0.590            |
|   | 01302   | HARAPPA $1-2$ 11.000      | 6 1 0151 11 166             | 61402 CHCHWINI 1-1<br>61402 CHCHWINI T 211 000   | 6 1.0079                   |
|   | 01402   | CHCHWINI I = 211.000      | 6 1.0131 11.100             | 61501 CHCHWINI 1-511.000                         | 6 1.0029 11.032            |
|   | 61491   |                           | 6 0.9662 10.649             | 61501 SH.FAZAL 1~111.000<br>61502 = 7 = 2 11.000 | 0 0.9430 10.373            |
|   | 01002   | SH.FAZAL 1-211.000        | 0 0.9450 10.575             | 01303 1-3 $11.000$                               | 0 1.0194 11.213            |
|   | 01001   | BUREWALA T-111.000        | 0 1.0104 11.101             | OTORS ROKEWALA I - ZII.000                       | 0 U.9030 1U.822            |
|   | 61603   | BUREWALA I-311.000        | 0 0.95/3 L0.530             | 01021 BKEWLA-0 I-111.000                         | 0 0.9829 10.812            |
|   | 61622   | BREWLA-0 1-211.000        | 6 1.0006 11.006             | 01023 1-3 11.000                                 | 0 0.9350 10.285            |
|   | 61/01   | VEHARI-0 1-111.000        | 6 0.9792 IU.772             | 61702 VEHARI-0 1-211.000                         | 0 0.9843 10.827            |
|   | 61703   | VEHARI-T-3 11.000         | 6 0.9/0/ 10.6//             | 61751 LUDDEN T-1 11.000                          | 6 0.9532 10.486            |
|   | 61752   | LUDDEN T-2 11.000         | 6 0.9532 10.486             | 61/81 KARAMPUR T-111.000                         | 6 1.0057 11.062            |

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|----------------|--------------------------------|----------|------------------|----------------------------|---------|--------|--------|
| 61782          | KARAMPUR T-211.000             | 6 1.0035 | 11.038           | 61801 ARIFWALA T-311.000   | 6       | 1.0199 | 11.219 |
| 61802          | ARIFWALA T-211.000             | 6 1.0199 | 11.219           | 61803 ARIFWALA T-111.000   | 6       | 0.9793 | 10.772 |
| 61811          | т-1 11.000                     | 6 0.9615 | 10.576           | 61812 T-2 11.000           | 6       | 0.9615 | 10.576 |
| 61821          | KAMIRW T-1 11.000              | 6 0.9752 | 10.727           | 61822 KAMTR W T-2 11.000   | Ğ       | 0.9752 | 10.727 |
| 61901          | BWL, NAGR T-111.000            | 6 0.9720 | 10.692           | 61902  T-3 11 000          | ĕ       | 0 9564 | 10 521 |
| 61903          | BWL . NAGR T-311.000           | 6 0.9720 | 10 692           | 61911 HOTA T = 1 11 000    | ñ       | 0 9550 | 10 505 |
| 61912          | HOTA $T-2$ 11,000              | 6 1 0053 | 11 058           | 62001  OABULA T = 1 11 000 | ĥ       | 0.9990 | 10,005 |
| 62002          | OABULA T-2 11 000              | 6 1 0120 | 11 132           | 62003  OABULA T 3 11 000   | ĥ       | 0.0078 | 10.001 |
| 62101          | SAHUKA $T = 1 11 000$          | 6 0 9819 | 10 801           | 62102 SAUUKA T-2 11 000    | 6       | 1 0028 | 11 021 |
| 62202          | HASTI PUR $T_{-211} 000$       | 6 0 9700 | 10.670           | 62202 UASTLOUD T 211 000   | 6<br>C  | 0.0720 | 10 712 |
| 62211          | CHUNAW $T_{-1}$ 11,000         | 6 0 0804 | 10.070           | 62201  CUTCTIAN T 111 000  | 6       | 0.9730 | 10.712 |
| 62302          | CHISTIAN $T_{-}211,000$        | 6 0 0470 | 10.004           | 62302  CHISTIAN  1-111.000 | 0       | 0.9/3/ | 10.711 |
| 62321          | $\frac{11311}{11000}$          | 6 0 0270 | 10.417<br>10.217 | 62303 CHISTIAU 13 II.000   | 6       | 0.9380 | 10.318 |
| 62501          | MAN VOT T 1 11 000             | 6 0 0904 | 10.51/           | 62522 DHRANWALA-1211.000   | 0       | 0.9379 | 10.31/ |
| 6/151          | CUTSTIAN = 211,000             | 0 0.9894 | 10.004           | 62502 MAN-KOI I-2 II.000   | 6       | 0.9894 | 10.884 |
| 64211          | $C_{\text{TISTIAN}}$ 1-211.000 | 6 0.9429 | 10.372           | 64191 L.SOHAN 1-1 11.000   | 6       | 0.9699 | 10.668 |
| 64621          | NOODCAP = 1 11 000             | 6 0.9761 | 10.737           | 64212 K.P. IOMI 1-211.000  | 6       | 0.9715 | 10.686 |
| 04021<br>64021 | NOURSAR $I = 1$ 11.000         | 6 0.9848 | 10.833           | 64622 NOORSAR T-2 11.000   | 6       | 1.0205 | 11.226 |
| 04021          | MNCHNBAD, II II.000            | 6 0.9415 | 10.356           | 64822 T-2 11.000           | 6       | 0.9942 | 10.936 |
| 04001<br>C4001 |                                | 6 0.9809 | 10.789           | 64882 T-2 11.000           | 6       | 0.9538 | 10.491 |
| 04891          |                                | 6 1.0028 | 11.031           | 64892 T-2 11.000           | 6       | 0.9515 | 10.467 |
| 04911          | MCLD.GNJ II II.000             | 6 1.002/ | 11.030           | 64912 MCLD GNG T-2         | 6       | 0.9965 |        |
| 65012          | HARONABD T-211.000             | 6 0.9362 | 10.298           | 65013 HARONABD T-111.000   | 6       | 0.9362 | 10.298 |
| 65014          | HARONABD T-311.000             | 6 0.9358 | 10.293           | 65121 FAQIRWLI-T1 11.000   | 6       | 0.9913 | 10.904 |
| 65122          | FAQIRWLI-T2 11.000             | 6 0.9405 | 10.346           | 65191 T-1 11.000           | 6       | 0.9660 | 10.626 |
| 65192          | T-2 11.000                     | 6 0.9119 | 10.031           | 65211 FORTABAS-T1          | 6       | 0.9152 |        |
| 65212          | FORTABAST-2 11.000             | 6 0.9166 | 10.082           | 70001 MIANCHNU T1 11.000   | 6       | 1.0331 | 11.364 |
| /0002          | MIANCHNU T-211.000             | 6 1.0106 | 11.117           | 70003 MIANCHNU T-311.000   | 6       | 1.0025 | 11.027 |
| /0011          | CHAK-83-T1 11.000              | 6 0.9994 | 10.993           | 70012 CHAK-83-T2 11.000    | 6       | 0.9994 | 10.993 |
| 70061          | H SIDNAI T-111.000             | 6 1.0016 | 11.017           | 70062 H SIDNAI T-211.000   | 6       | 1.0225 | 11.248 |
| 70101          | КАСНАКНИ Т-111.000             | 6 0.9872 | 10.860           | 70102 КАСНАКНИ Т-211.000   | 6       | 0.9872 | 10.860 |
| 70103          | КАСНАКНИ Т-311.000             | 6 0.9872 | 10.860           | 70201 KHANEWAL T-111.000   | 6       | 0.9961 | 10.957 |
| 70202          | KHANEWAL T-211.000             | 6 0.9885 | 10.874           | 70203 KHANEWAL T-311.000   | 6       | 0.9903 | 10.894 |
| 70301          | KABIRWLA T-111.000             | 6 1.0121 | 11.133           | 70302 KABIRWLA T-211.000   | 6       | 1.0343 | 11,378 |
| 70303          | KABIRWLA T-311.000             | 6 0.9819 | 10.800           | 70321 MP PAHOR T-111.000   | 6       | 0.9901 | 10.892 |
| 70322          | MP PAHOR T-211.000             | 6 0.9561 | 10.517           | 70401 GARHMORE T-111.000   | 6       | 0.9939 | 10.932 |
| 70402          | GARHMORE T-211.000             | 6 0.9506 | 10.457           | 70421 B-BANGLA T-111.000   | 6       | 1.0006 | 11.006 |
| 70501          | JEHANIAN T-111.000             | 6 0.9947 | 10.942           | 70502 JEHANIAN T-211.000   | 6       | 1.0227 | 11.249 |
| 70503          | JEHANIAN T-311.000             | 6 0.9910 | 10.901           | 70601 CHAK.211 T-111.000   | õ       | 1.0122 | 11.135 |
| 70602          | СНАК 211 Т-211.000             | 6 1.0101 | 11.111           | 70603 CHAK 211 T-311.000   | ē       | 1.0221 | 11.243 |
| 70701          | MAILSI T-1 11.000              | 6 1.0216 | 11.238           | 70702 MAILSI T-2 11.000    | ě       | 1.0216 | 11.238 |
| 70703          | MAILSI T-3 11.000              | 6 1.0174 | 11.191           | 70751 MUKHDM.R T-111.000   | ĕ       | 0.9852 | 10.837 |
| 70752          | MUKHDM.R T-211.000             | 6 0 9695 | 10.665           | 71101 BASTIMLK T-111.000   | ĕ       | 0.9951 | 10.946 |
| 71102          | BASTIMLK T-211.000             | 6 0 9932 | 10,925           | 71103 BASTIMIK T-311.000   | ĕ       | 0.9932 | 10,925 |
|                |                                |          |                  |                            | <b></b> |        |        |

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                                                                                         | 6   | 0 9970 | 10 967  | 71152 | $MTRAN P T_2 11 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 0 9970      | 10 967 |
|          | 71201 | MIRAN F 1 = 1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6   | 1 0020 | 11 042  | 71202 | $\begin{array}{c} \text{MIRAN } F  F^{-2}  \text{III}  000 \\ \text{MIRAN }  T^{-2}  11  000 \\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 1 0020      | 11 042 |
|          | 71201 | LODHRAN $T = 1 11.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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       | 0 1.0039      | 10 914 |
|          | /1203 | LODHRAN 1-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0   | 1.0100 | 11.1/0  | 71201 | $LARI - 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|          | /1252 | LAR 1-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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       | 6 1.0060      | 11.066 |
|          | 71302 | BU.JADID T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 6 1.0193      | 11.213 |
|          | 71402 | BHAWALPR T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 6 1.0064      | 11.070 |
|          | 71405 | BWP 66.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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       | 6 1.0030      | 11.033 |
|          | 71452 | BPCANTT T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 6 0.9954      | 10.950 |
|          | 71472 | KARORPCA T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 6 0.9942      | 10.936 |
|          | 71491 | DUNYAPUR T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 6 0.9971      | 10.968 |
|          | 71501 | SAMASATA T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|          | 71591 | MUB-PUR-T1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|          | 71601 | + TAOATPR T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|          | 71702 | AHMDPR = T - 211 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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       | 6 0 9937      | 10 931 |
|          | 71704 | AHMORR E TA 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6   | 0 9955 | 10 950  | 71801 | FEROZA T - 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|          | 71802 | $EEPO7A T_{-2} 11 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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       | 6 0 9553      | 10 508 |
|          | 71002 | $\frac{1}{2} \frac{1}{2} 6   | 1 0220 |         | 72001 | $\begin{array}{c} \text{KHANDLEA } 1 111.000 \\ \text{KHANDLE T } 1 11 000 \\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0 0526      | 10.100 |
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|          | 72002 | $\begin{array}{c} KHANPUR  I = 2  II  OOO \\ Muopeut  T  III  OOO \\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|          | 72101 | $\frac{MWQRSHIA}{T} = 11,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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       | 6 1.0202      | 11 102 |
|          | 72103 | 1-3 II.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0   | 1.0294 | 10 605  | 72201 | $\mathbf{R}$ , $\mathbf{Y}$ , $\mathbf{K}$ HAN $\mathbf{I}$ = 111,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|          | 72202 | R.Y.KHAN 1-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 6 1.0147      | 11.101 |
|          | 72204 | 1-4 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6   | 0.9995 | 10.995  | 72231 | $\mathbf{R} \cdot \mathbf{Y} \cdot \mathbf{K} + \mathbf{N} \mathbf{Z} = \mathbf{I} - \mathbf{I} \mathbf{I} \mathbf{I} \cdot \mathbf{O} \mathbf{O} \mathbf{U}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 0.9755      | 10.730 |
|          | 12252 | R.Y.KHNZ 1-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 6 0.9573      | 10.531 |
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       | 6 0.9951      | 10.946 |
|          | /2301 | SADIQABD T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 6 1.0243      | 11.26/ |
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       | 6 1.0100      | 11.110 |
|          | 72311 | WALANA T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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       | 6 1.0130      | 11.143 |
|          | 72351 | NAWAZ T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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       | 6 1.0111      | 11.122 |
|          | 72401 | J.D.WALI T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 6 0.9574      | 10.531 |
|          | 72403 | J D WALI T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6   | 1.02/1 | 11.298  | 72501 | . 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|          | 72502 | MN.KH.RD T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 6 0.9988      | 10.987 |
|          | 72551 | WAP TO T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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       | 6 0.9918      | 10.910 |
|          | 72554 | т-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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       | 6 0.9873      | 10.860 |
|          | 72602 | MN.BS.RD T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|          | 72611 | PNJB HSG T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|          | 72621 | BUCH VLS T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6   | 1.0100 | 11.110  | 72651 | . 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|          | 72652 | Q BAGH T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|          | 72702 | MLN-IND T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|          | 72731 | SURJ MNI T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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|          | 72801 | MN.VR.RD T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 6 1.0146      | 11.161 |
|          | 72803 | MN.VR.RD T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | 6 0.9950      | 10.944 |
|          | 72852 | OASIMPUR T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1.0031      | 11.034 |
|          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _   |        |         |       | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |        |

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|       |                    |          | 202    | 2-WITHOUT | .txt               |   |        |        |
|-------|--------------------|----------|--------|-----------|--------------------|---|--------|--------|
| 72871 | M.J RD T-1 11.000  | 6 0.9521 | 10.473 | 72872     | M.J.RD T-2 11.000  | 6 | 0.9521 | 10.473 |
| 72881 | SHUJABAD T-111.000 | 6 0.9903 | 10.893 | 72882     | SHUJABAD T-211.000 | 6 | 0.9911 | 10.902 |
| 72883 | SHUJABAD T-311.000 | 6 0.9689 | 10.658 | 72891     | J.P.W T-1 11.000   | 6 | 0.9690 | 10.659 |
| 72892 | J.P.W T-2 11.000   | 6 0.9677 | 10.645 | 72893     | J.P.W T-3 11.000   | 6 | 0.9869 | 10.856 |
| 72901 | MESCO T-1 11.000   | 6 0.9743 | 10.718 | 72902     | MESCO T-2 11.000   | 6 | 1.0257 | 11.282 |
| 72903 | MESCO T-3 11.000   | 6 0.9966 | 10.963 | 73201     | GUJRAT.S T1 11.000 | 6 | 1.0058 | 11.064 |
| 73202 | GUJRAT S T3 11.000 | 6 1.0174 | 11.191 | 73203     | GUJRAT.S T2 11.000 | 6 | 1.0070 | 11.078 |
| 73251 | LAYYAH T-1 11.000  | 6 1.0267 | 11.294 | 73252     | LAYYAH T-2 11.000  | 6 | 1.0267 | 11.294 |
| 73253 | LAYYAH T-3 11.000  | 6 1.0284 | 11.312 | 73281     | KBGASHER T-111.000 | 6 | 1.0102 | 11.112 |
| 73282 | KBGASHER T-211.000 | 6 1.0114 | 11.125 | 73301     | MZFRGARH T-111.000 | 6 | 0.9670 | 10.637 |
| 73302 | MZFRGARH T-211.000 | 6 0.9660 | 10.626 | 73303     | MZFRGARH T-311.000 | 6 | 0.9670 | 10.637 |
| 73312 | KOTADU-O T-211.000 | 6 1.0445 | 11.490 | 73313     | KOTADU-0 T-311.000 | 6 | 1.0402 | 11.442 |
| 73314 | KOTADU-0 T-411.000 | 6 1.0256 | 11.282 | 73321     | N.A.WALI T-211.000 | 6 | 1.0199 | 11.219 |
| 73322 | N.A.WALI T-111.000 | 6 1.0247 | 11.272 | 73331     | S S DIN T1 11.000  | 6 | 1.0026 | 11.029 |
| 73332 | S S DIN T2 11.000  | 6 0.9836 | 10.819 | 73351     | KOTSULTAN-T111.000 | 6 | 1.0227 | 11.250 |
| 73352 | KOTSULTAN-T211.000 | 6 1.0367 | 11.403 | 73361     | KAROR L.E-T111.000 | 6 | 0.9942 | 10.936 |
| 73362 | KAROR L.E-T2       | 6 0.9942 |        | 73401     | MEHRKHAS T-111.000 | 6 | 0.9428 | 10.371 |
| 73402 | MEHRKHAS T-211.000 | 6 0.9428 | 10.371 | 73403     | MEHRKHAS T-3       | 6 | 0.9573 |        |
| 73501 | DMR WALA T-111.000 | 6 0.9730 | 10.703 | 73502     | DMR WALA T-211.000 | 6 | 0.9599 | 10.558 |
| 73601 | JATOIJNB T-111.000 | 6 0.9384 | 10.323 | 73602     | JATOIJNB T-211.000 | 6 | 0.9029 | 9.932  |
| 73603 | т-3 11.000         | 6 0.9389 | 10.328 | 73701     | KHRPRSDT T-111.000 | 6 | 0.9715 | 10.687 |
| 73702 | KHPRSDT T-2 11.000 | 6 0.9747 | 10.722 | 73951     | SHA.LND T-1 11.000 | 6 | 1.0110 | 11,121 |
| 73952 | SHA LND T-2 11.000 | 6 0.9858 | 10.843 | 74001     | TAUNSA T-1 11.000  | 6 | 0.9870 | 10.857 |
| 74002 | TAUNSA T-2 11.000  | 6 0.9870 | 10.857 | 74003     | т-3 11.000         | 6 | 1.0126 | 11.139 |
| 74401 | CHOKMNDA T-111.000 | 6 1.0260 | 11.286 | 74402     | CHOKMNDA T-211.000 | 6 | 1.0205 | 11.225 |
| 74502 | CHAUBARA T-211.000 | 6 1.0239 | 11.263 | 74562     | CHOKAZAM T1 11.000 | 6 | 1.0342 | 11.376 |
| 74563 | т-3 11.000         | 6 1.0098 | 11.108 | 74591     | KHANGARH T-111.000 | 6 | 0.9530 | 10.483 |
| 74592 | KHANGARH T-211.000 | 6 0.9571 | 10.528 | 74602     | D.G.KHAN T-211.000 | 6 | 0.9998 | 10.997 |
| 74603 | D.G.KHAN T-311.000 | 6 1.0025 | 11.028 | 74604     | D.G.KHAN T-411.000 | 6 | 0.9896 | 10.885 |
| 74641 | т-1 11.000         | 6 0.9701 | 10.671 | 74651     | котснита т-111.000 | 6 | 0.9776 | 10.75  |
| 74652 | KOTCHUTA T-211.000 | 6 0.9776 | 10.753 | 74653     | котснитта т311.000 | 6 | 0.9820 | 10.802 |
| 74691 | CHOTI T-1 11.000   | 6 0.9856 | 10.842 | 74701     | ROJHAN T-1 11.000  | 6 | 1.0022 | 11.024 |
| 74731 | т-1 11.000         | 6 0.9832 | 10.815 | 75901     | SKHISRWR T-111.000 | 6 | 0.9841 | 10.825 |
| 75902 | SKISRWR T-2 11,000 | 6 0.9703 | 10.673 | 77811     | YAZMAN-T-1 11.000  | 6 | 0.9924 | 10.917 |
| 77812 | YAZMAN T-2 11.000  | 6 0.9924 | 10.917 | 77911     | MAROOT T1 11.000   | 6 | 0.9234 | 10.158 |
| 77912 | MAROOT T-2 11.000  | 6 0.9660 | 10.626 | 78311     | FATEHPUR T-111.000 | 6 | 0.9952 | 10.947 |
| 78312 | FATEPUR T-2 11.000 | 6 1.0137 | 11.151 | 78313     | т-3 11.000         | 6 | 1.0374 | 11.411 |
| 78401 | т1 11.000          | 6 1.0012 | 11.013 | 78901     | NAWANKOT T-111.000 | 6 | 1.0163 | 11.180 |
| 79091 | D.G.K.II T-111.000 | 6 1.0156 | 11.172 | 79092     | D.G.K.II T-211.000 | 6 | 1.0034 | 11.037 |
| 79301 | JAMPUR T-1 11.000  | 6 0.9929 | 10.922 | 79302     | JAMPUR T-2 11.000  | 6 | 1.0084 | 11.092 |
| 79331 | FAZALPUR T-111.000 | 6 0.9914 | 10.905 | 79332     | FAZALPUR T-211.000 | 6 | 0.9829 | 10.812 |
| 79511 | RAJANPUR T-111.000 | 6 1.0028 | 11.031 | 79512     | RAJANPUR T-211.000 | 6 | 1.0028 | 11.03  |
| 79513 | RAJANPUR T-3       | 6 0.9753 |        | 79741     | UCH.SHRF T-211.000 | 6 | 1.0009 | 11.010 |

## 2022-WITHOUT.txt

| 79742 UCH.SHRF T-31 | 1.000 6  | 0.9790 | 10.769 | 79743 UCH.SI | HRF T-111.000 | 6 | 1.0071 | 11.078 |
|---------------------|----------|--------|--------|--------------|---------------|---|--------|--------|
| 79751 UCH (KF) T-11 | 1.000 6  | 0.9913 | 10.904 | 79752 T-2    |               | 6 | 0.9456 |        |
| 79811 ALI PUR T-1 1 | .1.000 6 | 0.9422 | 10.364 | 79812 ALIPUR | R T-2 11.000  | 6 | 0.9117 | 10.029 |
| 79813 ALIPUR T-3 1  | 1.000 6  | 0.9592 | 10.552 | 79841 H.R. H | (AN T1 11.000 | 6 | 1.0298 | 11.328 |
| 79842 т-2 1         | 1.000 6  | 0.9963 | 10.959 | 79961 FRT MM | NRO T-111.000 | 6 | 1,0004 | 11.004 |
| 732512 I SM-132KV 1 | 32.00 6  | 1.0275 | 135.63 |              |               |   |        |        |

### 2022-WITH.txt

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS(R)E TUE, JAN 26 2021 11:41 MEPCO-2022-REVISED-DIIP-WITH

#### BUSES WITH VOLTAGE GREATER THAN 2.0000:

BUS# X-- NAME --X BASKV AREA V(PU) V(KV) BUS# X-- NAME --X BASKV AREA V(PU) V(KV)

\* NONE \*

#### BUSES WITH VOLTAGE LESS THAN 1.7000:

| BUS# | X NAME>      | <b>K</b> BASKV | AREA | V(PU)  | V(KV)  | BUS# | X NAME    | X BASKV   | AREA | V(PU)  | V(KV)  |
|------|--------------|----------------|------|--------|--------|------|-----------|-----------|------|--------|--------|
| 401  | т-3          | 11.000         | 6    | 0.9973 | 10.970 | 502  | т-3       | 11.000    | 6    | 1.0073 | 11.081 |
| 529  | PARCO        | 220.00         | 6    | 1.0386 | 228.50 | 5282 | FATMA ENE | RGY132.00 | 6    | 1.0200 | 134.64 |
| 5283 | FAZAL CLOTH  | 132.00         | 6    | 1.0193 | 134.55 | 6030 | OADIRABD  | 132.00    | 6    | 1.0346 | 136.57 |
| 6050 | BNGAHYAT     | 132.00         | 6    | 1.0173 | 134.28 | 6070 | YOUSFWLA  | 132.00    | 6    | 1.0287 | 135.78 |
| 6080 | SAHIWALN     | 132.00         | 6    | 1.0209 | 134.76 | 6090 | SAHIWAL-O | 132.00    | 6    | 1.0205 | 134.71 |
| 6095 | SAHIWAL III  | 132.00         | 6    | 1.0179 | 134.36 | 6100 | NOORPUR   | 132.00    | 6    | 1.0182 | 134.40 |
| 6101 | PAKPATTAN-2  | 132.00         | 6    | 1.0142 | 133.87 | 6120 | PAKPATAN  | 132.00    | 6    | 0.9919 | 130.93 |
| 6130 | HARAPPA      | 132.00         | 6    | 1.0045 | 132.60 | 6140 | CHCHWTNI  | 132.00    | 6    | 1.0081 | 133.07 |
| 6149 | KASOWAL132   | 132.00         | 6    | 1.0051 | 132.68 | 6150 | SH.FAZAL  | 132.00    | 6    | 0.9878 | 130.39 |
| 6160 | BUREWALA     | 132.00         | 6    | 0.9791 | 129.24 | 6162 | BREWLA-O  | 132.00    | 6    | 0.9734 | 128.49 |
| 6163 | GAGOO        | 132.00         | 6    | 0.9714 | 128.22 | 6169 | VEHARI-N  | 132.00    | 6    | 1.0115 | 133.52 |
| 6170 | VEHARI-O     | 132.00         | 6    | 1.0079 | 133.04 | 6175 | LUDDEN    | 132.00    | 6    | 0.9895 | 130.62 |
| 6178 | KARAMPUR     | 132.00         | .6   | 0.9791 | 129.24 | 6179 | MACHIWAL  | 132.00    | 6    | 0.9899 | 130.67 |
| 6180 | ARIFWALA     | 132.00         | 6    | 0.9796 | 129.30 | 6181 | ARIFWALA- | 2 132.00  | 6    | 0.9794 | 129.28 |
| 6182 | KAMIRWALA    | 132.00         | 6    | 0.9935 | 131.14 | 6190 | BWL.NAGR  | 132.00    | 6    | 0.9865 | 130.22 |
| 6191 | HOTA         | 132.00         | 6    | 0.9757 | 128.79 | 6200 | QABULA    | 132.00    | 6    | 0.9761 | 128.84 |
| 6210 | SAHUKA       | 132.00         | 6    | 0.9788 | 129.20 | 6220 | HASILPUR  | 132.00    | 6    | 0.9887 | 130.50 |
| 6221 | CHUNAWALA    | 132.00         | 6    | 0.9875 | 130.34 | 6230 | CHISTIAN- | 0 132.00  | 6    | 1.0003 | 132.04 |
| 6231 | CHSTAN-N     | 132.00         | - 6  | 1.0064 | 132.84 | 6232 | DHARWALA1 | 32 132.00 | 6    | 0.9949 | 131.32 |
| 6238 | BUKHSHAN 132 | 2132.00        | 6    | 1.0041 | 132.54 | 6239 | CHISTIAN  | 132132.00 | 6    | 1.0051 | 132.67 |
| 6250 | MAN-KOT      | 132.00         | 6    | 1.0087 | 133.15 | 6410 | HASILPUR  | 66.000    | 6    | 0.9887 | 65.252 |
| 6419 | L.SOHANRA    | 132.00         | 6    | 0.9977 | 131.70 | 6420 | BEST-GREE | N 132.00  | 6    | 1.0200 | 134.64 |
| 6421 | K.P.TOMI     | 132.00         | 6    | 0.9894 | 130.60 | 6422 | APPOLO-SO | LAR132.00 | 6    | 1.0181 | 134.39 |
| 6462 | NOORSAR      | 132.00         | 6    | 0.9979 | 131.72 | 6482 | MNCHNBAD  | 132.00    | 6    | 0.9763 | 128.87 |
| 6488 | BWL NAGAR-2  | 132.00         | 6    | 0.9944 | 131.27 | 6489 | DONGA BNG | A 132.00  | 6    | 0.9921 | 130.96 |
| 6491 | MCLD.GNJ     | 132.00         | 6    | 0.9728 | 128.42 | 6501 | HARONABD  | 132.00    | 6    | 0.9946 | 131.29 |
| 6512 | FAQIRWLI     | 132.00         | 6    | 0.9916 | 130.89 | 6519 | KHICHIWAL | A 132.00  | 6    | 0.9905 | 130.74 |
| 6521 | FORTABAS     | 132.00         | 6    | 0.9944 | 131.27 | 6666 | MULTAN-N  | 132.00    | 6    | 1.0241 | 135.18 |

|     |       |                  |         | · · ·      |         | 20              | 22-WJ     | TH.t | (t           |         |        | •      |            |
|-----|-------|------------------|---------|------------|---------|-----------------|-----------|------|--------------|---------|--------|--------|------------|
|     | 7000  | MTANCHNU         | 132.00  | 6          | 0.9806  | 129.43          |           | 7001 | CHAK-83-132  | 132.00  | . 6    | 0.9959 | 131.46     |
|     | 7002  | KASSOWAL         | 132.00  | -<br>6     | 1.0176  | 134.32          |           | 7006 | HEAD SIDHNA  | 132.00  | 6      | 0.9715 | 128.24     |
|     | 7010  | ΚΔCΗΔΚΗΠ         | 132 00  | Ë Å        | 0.9707  | 128.13          |           | 7020 | KHANFWAL     | 132.00  | Ğ      | 0.9804 | 129.42     |
|     | 7029  | EALLIT-K         | 132 00  | ň          | 1 0000  | 132 00          | e         | 7030 | KARTRWIA     | 132 00  | . õ    | 0.9760 | 128.83     |
|     | 7022  |                  | 132 00  | - G        | 0.9680  | 127 78          | · · · · · | 7040 | GARHMORE     | 132 00  | Ğ      | 0 9885 | 130 48     |
|     | 7032  |                  | 132.00  | . 6        | 0.9675  | 127 71          |           | 7050 |              | 132.00  | 6      | 0.9816 | 129 57     |
|     | 7042  | CUAR 211         | 132.00  | 6          | 0.9075  | 128:05          |           | 7070 | MATIST       | 132.00  | 6      | 0.0010 | 128 70     |
|     | 7000  |                  | 132.00  | - 0<br>- C | 0.9701  | 120.03          |           | 7070 | D CATE 1     | 122.00  | 0<br>6 | 1 0170 | 124 27     |
|     | 7075  |                  | 132.00  | . 0        | 0.9790  | 129.34          |           | 7110 | P.GAID-1     | 132.00  | 0      | 1.01/9 | 100 75     |
|     | /109  | P.GAIB-Z         | 132.00  |            | 1.0011  | 132.13          |           | 7120 | BASTIMLK     | 132.00  | 0      | 0.9629 | 129.73     |
|     | /115  | MIRAN PUR        | 132.00  | 6          | 0.9838  | 129.80          |           | 7120 | LODHRAN      | 132.00  | 6      | 1.0086 | 133.13     |
|     | /125  | LAR              | 132.00  | 6          | 0.9833  | 129.79          |           | 7130 | BO. JADID    | 132.00  | 6      | 1.0059 | 132.78     |
| •   | /138  | BWPN-2           | 132.00  | 6          | 1.0008  | 132.10          |           | 1139 | B.W.P-N      | 132.00  | 6      | 1.0375 | 136.95     |
|     | 7140  | BHAWALPR         | 132.00  | 6          | 1.0210  | 134.//          |           | /141 | LODHRAN-2    | 132.00  | 6      | 1.018/ | 134.47     |
|     | 7145  | BPUR CANTT       | 132.00  | 6          | 1.0302  | 135.98          |           | /146 | CREST-ENERGY | /132.00 | 6      | 1.0213 | 134.81     |
|     | 7147  | KARORPCA         | 132.00  | 6          | 0.9769  | 128.95          |           | 7148 | QAD-SOL-I    | 132.00  | 6      | 1.0200 | 134.64     |
|     | 7149  | DUNYAPUR         | 132.00  | 6          | 0.9652  | 127.40          |           | 7150 | SAMASATA     | 132.00  | - 6    | 0.9911 | 130.83     |
|     | 7159  | MUB-PUR          | 132.00  | 6          | 0.9790  | 129.23          |           | 7160 | LIAQATPR     | 132.00  | 6      | 0.9786 | 129.17     |
|     | 7170  | AHMDPR E         | 132.00  | 6          | 0.9726  | 128.38          |           | 7175 | RYK-PP       | 132.00  | 6      | 1.0100 | 133.32     |
| •   | 7180  | FEROZA           | 132.00  | . 6        | 1.0108  | 133.43          |           | 7185 | KHANBELA     | 132.00  | 6      | 0.9926 | 131.02     |
|     | 7190  | HAMZA-PP         | 132.00  | 6          | 1.0000  | 132.00          |           | 7200 | KHANPUR      | 132.00  | 6      | 1.0010 | 132.14     |
|     | 7210  | MWQRSHIA         | 132.00  | 6          | 0.9841  | 129.90          |           | 7220 | R.Y.KHAN     | 132.00  | 6      | 0.9998 | 131.97     |
|     | 7221  | RYK-NEW          | 132.00  | 6          | 1.0248  | 135.28          |           | 7225 | R.Y.KHN2     | 132.00  | 6      | 0.9919 | 130.93     |
|     | 7229  | RYK-3            | 132.00  | 6          | 1.0035  | 132.46          |           | 7230 | SADIQABD     | 132.00  | 6      | 1.0179 | 134.36     |
|     | 7231  | SANJARPUR        | 132.00  | 6          | 1.0222  | 134.94          |           | 7232 | JDW II USM H | P132.00 | - 6    | 1.0300 | 135.96     |
|     | 7235  | NAWAZABD         | 132.00  | 6          | 1.0216  | 134.85          |           | 7237 | RIE          | 132.00  | - 6    | 1.0146 | 133.92     |
|     | 7240  | J.D.WALI         | 132.00  | 6          | 1.0058  | 132.76          |           | 7250 | MN.KH.RD     | 132.00  | 6      | 1.0209 | 134.76     |
|     | 7255  | WAPDATWN         | 132.00  | 6          | 1.0108  | 133.42          |           | 7260 | MN.BS.RD     | 132.00  | 6      | 1.0056 | 132.74     |
|     | 7261  | PUNJAB HOSNO     | G132.00 | 6          | 1.0174  | 134.30          |           | 7262 | BUCH VILLAS  | 132.00  | 6      | 1.0037 | 132.49     |
|     | 7265  | OASTMBGH         | 132.00  | 6          | 1.0063  | 132.83          |           | 7269 | RAWAN ROAD   | 132.00  | 6      | 1.0110 | 133.46     |
|     | 7270  | MIN-TND          | 132.00  | 6          | 1.0068  | 132.89          |           | 7272 | COCA COLA    | 132.00  | 6      | 1.0068 | 132.89     |
| •   | •7273 | SURAT MTANT      | 132.00  | 6          | 1.0051  | 132.68          |           | 7275 | C.T.MTU      | 132.00  | 6      | 1.0059 | 132.78     |
|     | 7277  |                  | 132.00  | 6          | 1.0000  | 132.00          |           | 7280 | MN . VR . RD | 132.00  | 6      | 1,0068 | 132.90     |
|     | 7285  | OASTMPLIE        | 132 00  | ő          | 1.0049  | 132.64          |           | 7287 | M. JATI RD   | 132.00  | - ĨĞ   | 1.0012 | 132.16     |
|     | 7288  | SHUTARAD         | 132.00  | ĕ          | 0.9641  | 127.26          |           | 7289 |              | 132.00  | ő      | 0.9722 | 128.33     |
|     | 7290  | MESCO            | 132.00  | 6          | 0 9957  | 131 43          |           | 7300 | KAPCO        | 132 00  | ĕ      | 1.0490 | 138.47     |
|     | 7220  | CHIPAT S         | 132.00  | Ğ          | 1 0312  | 136 12          |           | 7325 |              | 132.00  | ĕ      | 1 0281 | 135 71     |
|     | 7320  |                  | 132.00  | 6          | 1 0299  | 135 95          |           | 7330 | MZERGARH     | 132.00  | Ğ      | 1 0179 | 134 36     |
|     | 7321  |                  | 132.00  | 6          | 1 0476  | 138 28          |           | 7332 |              | 132 00  | 6<br>6 | 1 0320 | 136 22     |
|     | 7222  |                  | 132.00  | 6          | 1 0102  | 133 3/          |           | 7337 | M CADU NEW   | 132.00  | 0<br>6 | 1 0188 | 134 49     |
| • • | 7225  |                  | 132.00  | 0<br>A     | 1:0360  | 136 76          |           | 7334 |              | 132.00  | 0<br>A | 1 0161 | 134 13     |
|     | 7333  |                  | 122 00  | 0<br>6     | 1 0200  | 12/ 6/          |           | 7330 | NANON LIE    | 132.00  | 0<br>2 | 1 0175 | 12/ 21     |
|     | 1331  |                  | 122 00  | - 0<br>E   | 1 0070  | 122 02          |           | 7350 |              | 132.00  | 0<br>ג | 1 0059 | 127 76     |
|     | 7340  |                  | 122.00  | 0          | 1 00070 | 122.92          |           | 7270 |              | 122.00  | ہ<br>0 | 1 0000 | 125 01     |
|     | 1300  | <b>TAIOT JNR</b> | T27.00  | 0          | T.0001  | τοο <b>•</b> το |           | 1310 | KUKEKODI     | TJC 00  | 0      | T.0770 | $TO^{1}CT$ |

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7395 SHAD.LND

7440 CHOKMNDA

7456 CHOKAZAM

7460 D.G.KHAN

7463 CPC-DGK

-7465 KOTCHUTA

7590 SKHISRWR

7470 ROJHAN

7781 YAZMAN

7800 KOTADDU

7840 RANGPUR

7930 JAMPUR

7880 CHAUBARA

7951 RAJANPUR

7970 AHMDPR E

7981 ALI PUR

60902 SAHWAL-O T-211.000

60951 SWL III T-1 11.000

61002 NOORPUR T-2 11.000

61201 PAKPATAN T-111.000

61203 PAKPATAN T-311.000

61302 HARAPPA T-2 11.000

61402 CHCHWTNI T-211.000

61502 SH.FAZAL T-211.000

61601 BUREWALA T-111.000

61603 BUREWALA T-311.000

61622 BREWLA-0 T-211.000

61631 GAGOO T-1 11.000

60803 T-3

60953 T-3

61011 T-1

61491 T-1

7891 T.NWANKOT

7477 ZENFA

7435 PARCO

7443 AHTM

7467 ATM

7412 P.GHAIB132KV132.00

|        | 1.1.1  |        |             |                    |         |     |        |        |
|--------|--------|--------|-------------|--------------------|---------|-----|--------|--------|
|        |        | 20     | )22-WITH.tx | xt                 |         |     |        |        |
| 6      | 1 0184 | 134 43 | 7400        | ΤΔΗΝSΔ             | 132 00  | 6   | 1.0079 | 133.05 |
| 6      | 1 0147 | 122 05 | 7/13        |                    | 132 00  | ĕ   | 1 0188 | 134 49 |
| â      | 1 0177 | 122 21 | 7413        |                    | 132.00  | 6   | 1 0135 | 133 78 |
| 0<br>0 | 1.0137 | 100.01 | 7430        |                    | 122.00  | · 0 |        | 127 47 |
| 0      | 1.03/4 | 130.94 | 7442        | I-AHIM<br>CHANDADA | 132.00  | 0   | 1.0413 | 137.47 |
| b      | 1.0414 | 137.47 | 7450        | CHAUBARA           | 132.00  | 6   | 1.0350 | 130.62 |
| 6      | 1.0261 | 135 44 | 7459        | KHANGARH           | 132.00  | 6   | 1.0119 | 133.5/ |
| 6      | 1.0188 | 134.49 | 7462        | MDC-DGK            | 132.00  | 6   | 1.0198 | 134.61 |
| 6      | 1.0185 | 134.44 | 7464        | JAMPR 66-13        | 2132.00 | - 6 | 1.0101 | 133.33 |
| 6      | 1.0134 | 133.77 | 7466        | T-ATM              | 132.00  | 6   | 1.0171 | 134.26 |
| 6      | 1.0171 | 134.26 | 7469        | CHOTI 132          | 132.00  | 6   | 1.0167 | 134.20 |
| 6      | 1.0321 | 136.24 | 7473        | dajal132           | 132.00  | 6   | 1.0086 | 133.13 |
| 6      | 1.0359 | 136.74 | 7580        | CMNT.FCT           | 132.00  | 6   | 1.0197 | 134.60 |
| 6      | 1.0175 | 134.31 | 7650        | L.SUHANRA13        | 2132.00 | 6   | 1.0239 | 135.15 |
| 6      | 1.0214 | 134.83 | 7791        | MAROOT             | 132.00  | 6   | 1.0206 | 134.72 |
| 6      | 1.0433 | 68.855 | 7831        | FATEHPUR           | 132.00  | 6   | 1.0148 | 133.95 |
| 6      | 1.0262 | 67.728 | 7842        | T-RANGPR           | 66.000  | Ğ.  | 1.0410 | 68,703 |
| 6      | 1.0335 | 68,209 | 7890        | NAWANKOT           | 66.000  | 6   | 1.0299 | 67.977 |
| 6      | 1 0301 | 67.988 | 7909        | D.G.KHAN TT        | 132.00  | õ   | 1.0161 | 134.12 |
| 6      | 1 0140 | 133 85 | 7933        |                    | 132 00  | ň   | 1 0111 | 133.46 |
| 6      | 1 0129 | 133 71 | 7959        | TNDUS ENERG        | v132 00 | ĕ   | 1 0200 | 134 64 |
| 6      | 0 9950 | 65 672 | 7974        | THE SHRE           | 132.00  | ĥ   | 0 9620 | 126 99 |
| ĥ      | 0.9364 | 61 800 | 7977        | T-UCHSHE           | 66 000  | 6   | 0.9727 | 64 198 |
| 6      | 1 0121 | 12/ 20 | 7082        | 14001-2            | 132 00  | 6   | 1 0000 | 122 21 |
| 6      | 1 0101 | 124.55 | 7902        | FORT MINDO         | 132.00  | 6   | 1 0176 | 13/ 33 |
| 6      | 1 0140 | 11 154 | 60303       | OADTRARD T.        | 211 000 | 6   | 1 01/0 | 11 15/ |
| 6      | 0.0046 | 10 040 | 60502       | QADIKABD I-        | 211.000 | 6   | 0 0028 | 10 021 |
| c      | 0.9940 | 10.340 | 60802       |                    | 211.000 | 0   | 0.9920 | 10.321 |
| 0      | 0.9792 | 10.772 | 60602       | SAHIWALN I-        | 211.000 | 0   | 1.0242 | 11 267 |
| 0      | 1.0219 | 11.025 | 60901       | SAHWAL-U T-        | 211,000 | 0   | 1 0243 | 11 266 |
| 0      | 1.0023 | 11 250 | 60903       | SAHWAL-U I-        | 11 000  | 0   | 1.0242 | 10 017 |
| b      | 1.0228 | 11,250 | 60952       | SWL III I-Z        | 11.000  | 6   | 0.9925 | 10.91/ |
| 6      | 1.013/ | 11.121 | 61001       | NOOKPUK I-T        | 11.000  | b   | 1.0165 | 11.101 |
| 6      | 1.0044 | 11.048 | 61004       | 1-3                | 11.000  | 6   | 0.9931 | 10.924 |
| 6      | 1.0028 | 11.031 | 61012       | T-2                | 11.000  | 6   | 1.0018 | 11.020 |
| 6      | 0.9760 | 10.736 | 61202       | ΡΑΚΡΑΤΑΝ Τ-        | 211.000 | 6   | 0.9760 | 10.736 |
| 6      | 0.9700 | 10.670 | 61301       | HARAPPA T-1        | 11.000  | 6   | 0.9714 | 10.686 |
| 6      | 1.0169 | 11.186 | 61401       | CHCHWTNI T-        | 1       | 6   | 1.0188 |        |
| 6      | 1.0261 | 11.288 | 61403       | CHCHWTNI T-        | 311.000 | 6   | 1.0139 | 11.153 |
| 6      | 0.9953 | 10.949 | 61501       | SH.FAZAL T-        | 111.000 | 6   | 1.0322 | 11.354 |
| 6      | 1.0322 | 11.354 | 61503       | т-3                | 11.000  | 6   | 1.0474 | 11.521 |
| 6      | 1.0489 | 11.538 | 61602       | BUREWALA T-        | 211.000 | 6   | 1.0187 | 11.206 |
|        |        |        |             |                    |         |     |        |        |

61621 BREWLA-0 T-111.000

11.000

11.000

| 6 1.0433   | 68.855 | 7831  | FATEHPUR        |
|------------|--------|-------|-----------------|
| 6 1.0262   | 67.728 | 7842  | <b>T-RANGPR</b> |
| 6 1.0335   | 68.209 | 7890  | NAWANKOT        |
| 6 1.0301   | 67.988 | 7909  | D.G.KHAN        |
| 6 1.0140   | 133.85 | 7933  | FAZALPUR        |
| 6 1.0129   | 133.71 | 7959  | INDUS EN        |
| 6 0.9950   | 65.672 | 7974  | UCH.SHRF        |
| 6 0.9364   | 61.800 | 7977  | T-UCHSHF        |
| 6 1.0181   | 134.39 | 7982  | JATOI-2         |
| 6 1.0194   | 134.56 | 7996  | FORT.MIN        |
| 6 1.0140   | 11.154 | 60302 | QADIRABD        |
| - C 0 001C | 10 040 | 60502 | DNCALIVAT       |

66.000 66,000 132.00 132.00 66.000 7975 KOT KHALIFA 66.000 132.00 7984 HEAD-RJ-KN 132.00 60301 QADIRABD T-111.000 60501 BNGAHYAT T-111.000 6 0.994 60801 SAHIWALN T-111.000 6 0.979

6 0.9853 10.838

6 1.0311 11.342

6 0.9676 10.644

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61623 Т-3

61632 GAGOO T-2

1E)

6 1.0116 11.128

6 1.0152 11.167 6 0.9741 10.715

|         |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1. S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | 2022-1           | NTTH tyt                                             |                            |
|---------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------|------------------------------------------------------|----------------------------|
| e.      | 61701  | VEHART-0 T-111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0 9988                                     | 10 987           | 61702 VEHART-0 T-211 000                             | 6 1 0311 11 342            |
|         | 61703  | VEHART $T_3$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1 0067                                     | 11 073           | 61751 LUDDEN T-1 11 000                              | 6 0 97/3 10 717            |
|         | 61752  | $100000 \pm 2$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0 0743                                     | 10 717           | 61781 KADAMDUD T 111 000                             | $6 \ 1 \ 0.772 \ 11 \ 201$ |
|         | 01/JZ  | $\frac{1}{10000000000000000000000000000000000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1 0266                                     | 10.717<br>11 202 | (1701  KARAMPUR  1  11  000                          | $C = 0.0273 \pm 0.001$     |
|         | 01/02  | KARAMPUR 1-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0 1.0200                                     | 10 057           | (1201)                                               | 6 0.9670 10.657            |
|         | 61/92  | 12 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6 0.9870                                     | 10.857           | 61801 ARIFWALA 1-311.000                             | 6 1.0438 11.482            |
|         | 61802  | ARIFWALA I-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 1.0438                                     | 11.482           | 61803 ARIFWALA T-111.000                             | 6 1.0006 11.007            |
|         | 61811  | T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 0.9/63                                     | 10.739           | 61812 T-2 11.000                                     | 6 0.9/63 10./39            |
|         | 61821  | KAMIRW T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 0.9869                                     | 10.856           | 61822 KAMIR W T-2 11.000                             | 6 0.9869 10.856            |
|         | 61901  | BWL.NAGR T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0.9919                                     | 10.911           | 61902 т-3 11.000                                     | 6 0.9756 10.731            |
|         | 61903  | BWL.NAGR T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0.9919                                     | 10.911           | 61911 HOTA T-1 11.000                                | 6 0.9743 10.717            |
|         | 61912  | HOTA T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 1.0253                                     | 11.278           | 62001 QABULA T-1 11.000                              | 6 1.0243 11.267            |
|         | 62002  | QABULA T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 1.0405                                     | 11.445           | 62003 QABULA T-3 11.000                              | 6 1.0173 11.190            |
|         | 62101  | SAHUKA T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 1.0210                                     | 11.231           | 62102 SAHUKA T-2 11.000                              | 6 1.0423 11.465            |
|         | 62202  | HASILPUR T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0.9914                                     | 10.905           | 62203 HASILPUR T-311.000                             | 6 0.9952 10.947            |
|         | 62211  | CHUNAW T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 1.0093                                     | 11.102           | 62301 CHISTIAN T-111.000                             | 6 0.9967 10.964            |
|         | 62302  | CHISTIAN T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0.9695                                     | 10.665           | 62303 CHISTIAO T3 11.000                             | 6 1.0196 11.216            |
|         | 62321  | DHRANWALA-T111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 1.0157                                     | 11.173           | 62322 DHRANWALA-T211.000                             | 6 1.0157 11.173            |
|         | 62381  | т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 0.9977                                     | 10.975           | 62391 T-1 11.000                                     | 6 1.0023 11.025            |
|         | 62392  | T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1,0023                                     | 11.025           | 62501 MAN-KOT T-1 11.000                             | 6 1.0061 11.067            |
| ×.      | 62502  | MAN-KOT T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 1.0061                                     | 11.067           | 64191 L.SOHAN T-1 11.000                             | 6 0.9825 10.807            |
| 2       | 64211  | K.P.TOMI T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0.9933                                     | 10.926           | 64212 K.P.TOMI T-211.000                             | 6 0.9878 10.865            |
|         | 64621  | NOORSAR T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 1.0063                                     | 11.070           | 64622 NOORSAR T-2 11.000                             | 6 1.0424 11.466            |
|         | 64821  | MNCHNBAD T1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 1.0183                                     | 11.201           | 64822 T-2 11.000                                     | 6 1.0181 11.199            |
|         | 64881  | т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1.0035                                     | 11.039           | 64882 T-2 11.000                                     | 6 0.9754 10.729            |
| -85     | 64891  | T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1.0341                                     | 11.375           | 64892 T-2 11.000                                     | 6 0.9812 10.793            |
|         | 64911  | MCLD.GNJ T1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 1.0275                                     | 11.302           | 64912 MCLD GNG T-2                                   | 6 1.0211                   |
| ЧY<br>А | 65012  | HARONARD $T = 211,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0225                                     | 11,247           | 65013 HARONARD T-111.000                             | 6 1.0225 11 247            |
| 46      | 65014  | HARONARD $T = 311,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0223                                     | 11.245           | 65121 FAOTRWLT-T1 11 000                             | 6 1 0390 11 429            |
|         | 65122  | FAOTRWLT-T2 11,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 1 0390                                     | 11 429           | 65191  T-1 11 000                                    | 6 1 0388 11 426            |
|         | 65192  | T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1.0388                                     | 11,426           | 65211 FORTABAS-T1                                    | 6 1 0369                   |
|         | 65212  | FORTABAST-2 $11,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 1.0319                                     | 11.351           | 70001 MTANCHNU T1 11 000                             | 6 1 0424 11 467            |
|         | 70002  | MTANCHNU T-211 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 1 0202                                     | 11 222           | 70003 MTANCHNU T=311 000                             | 6 1.0116 11 127            |
|         | 70011  | CHAK = 83 = T1 - 11 - 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6 1 0078                                     | 11 085           | 70012  CHAK = 83 = 72 11 000                         | 6 1 0078 11 085            |
|         | 70061  | H STDNAT T-111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 1 0075                                     | 11 083           | 70062 H STDNAT T=211 000                             | 6 1 0282 11 310            |
|         | 70101  | KACHAKHU $T = 111 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0 9938                                     | 10 932           | 70102 KACHAKHU T-211.000                             | 6 0 9938 10 932            |
|         | 70103  | KACHAKHU T = 311 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 1 0008                                     | 11 009           | 70201 KHANEWAL T-111 000                             | 6 1 0008 11 009            |
|         | 70202  | KHANEWAL $T=211,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 0 9933                                     | 10 926           | 70203 KHANEWAL T 311 000                             | 6 0 9950 10 945            |
|         | 70202  | $K_{ARTPWIA} T_{-111} 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1 0181                                     | 11 100           | 70302 KARTOWIA T-211 000                             | 6 1 0404 11 444            |
|         | 70301  | $KADIRWLA T_311 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 0 9876                                     | 10 864           | 70302 RABINWLA $1-211.00070321$ MD DAUOD T. 111 000  | 6 0 0064 10 060            |
|         | 70303  | MD DAUOD $T_211 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 0 9614                                     | 10.575           | 70401  CADHMODE T 111 000                            | 6 1 0.3304 10.300          |
|         | 70402  | CADUMODE $T_211 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 0 9670                                     | 10.575           | $70421 \text{ R}_{\text{PANCIA}} \text{T}_{111} 000$ | 6 1 0060 11 066            |
|         | 70402  | $\frac{1}{1}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 1 0006                                     | 11 106           | 70502 JEHANTAN T-211 000                             | 6 1 0370 11 <i>1</i> 17    |
|         | 70501  | $\frac{1}{2} = \frac{1}{2} 6 1 0058                                     | 11 064           | $70601 \text{ CUAK} 211 \text{ T}_111 000$           | 6 1 0288 11 216            |
|         | 70.005 | JERANIAN ISJII.UUU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0 T*0030                                     | TT.004           | 70001 CHAR, $211$ $1$ $-111$ , $000$                 | $0 \pm 0200 \pm 010$       |

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|     | n<br>Service Alexander<br>Alexander |                                                                                                     |          | 2022-            | WTTH txt                                             |                            |
|-----|-------------------------------------|-----------------------------------------------------------------------------------------------------|----------|------------------|------------------------------------------------------|----------------------------|
| • . | 70602                               | СНАК 211 Т-211 000                                                                                  | 6 1 0266 | 11.293           | 70603 CHAK 211 T-311.000                             | 6 1.0380 11.418            |
|     | 70701                               | MATLST T-1 11 000                                                                                   | 6 1 0384 | 11 423           | 70702 MATLST T-2 11.000                              | 6 1.0384 11.423            |
|     | 70703                               | MATIST $T = 3 - 11 - 000$                                                                           | 6 1 0346 | 11 380           | 70751 MUKHOM R T-111 000                             | 6 0 9979 10 977            |
| ÷.  | 70752                               | MHKHDM P $T_{-211}$ 000                                                                             | 6 0 9814 | 10 796           | 71101 BASTTMLK T-111 000                             | 6 1 0129 11 142            |
| ġ   | 71102                               | PASTTMUNT 211,000                                                                                   | 6 1 0100 | 11 120           | 71102 DASTIMER T 112.000<br>71103 DASTIMER T 211 000 |                            |
|     | 71151                               | MTDAN D T 1 11 000                                                                                  | 6 1 0124 | 11 1/0           | 71152 MTDAN D T 2 11 000                             | $6 \ 1 \ 0124 \ 11 \ 148$  |
|     | 71201                               | $\begin{array}{c} \text{MIRAN} P & 1 - 1 & 11 & 000 \\ \text{LODUDAN} T & 1 & 11 & 000 \end{array}$ | 6 1 0177 | 11 200           | 71132 MIRAN P 1-2 11.000<br>71202 LODUDAN T 2 11.000 | 6 1 0272 11 200            |
|     | 71201                               | LODHRAN $T = 11,000$                                                                                | 0 1.0272 |                  | 71202 LODHRAN 1-2 11.000                             |                            |
|     | 71203                               | LODHRAN 1-5 11.000                                                                                  | 0 1.0302 | 10,072           | 71201 DH 340TO T 111 000                             | 0 0.9975 10.972            |
|     | 71202                               | LAR 1-2 11.000                                                                                      | 6 0.9975 | 10.972           | 71301 BU.JADID 1-111.000                             | 6 1 0186 11 204            |
|     | 71302                               | BU. JADID 1-211.000                                                                                 | 6 0.9817 | 10.799           | 71401 BHAWALPR 1-111.000                             | 6 1.0314 11.345            |
| ·   | 71402                               | BHAWALPR 1-211.000                                                                                  | 6 1.0296 | 11.326           | 71403 BHAWALPR 1-311.000                             | 6 1.0182 11.200            |
|     | 71405                               | BWP 66.000                                                                                          | 6 1.0210 | 67.385           | /1411 T-1 11.000                                     | 6 1.0141 11.155            |
|     | 71412                               | T-2 11.000                                                                                          | 6 1.0141 | 11.155           | 71451 BP CANTT T-111.000                             | 6 1.0211 11.232            |
|     | 71452                               | BPCANTT T-2 11.000                                                                                  | 6 1.0211 | 11.232           | 71453 T-3 11.000                                     | 6 1.0270 11.296            |
|     | 71471                               | KARORPCA T-111.000                                                                                  | 6 1.0117 | 11.129           | 71472 KARORPCA T-211.000                             | 6 1.0354 11.390            |
|     | 71473                               | KARORPCA T-311.000                                                                                  | 6 1.0104 | 11.114           | 71491 DUNYAPUR T-311.000                             | 6 1.0273 11.301            |
| ć   | 71492                               | DUNYAPUR T-411.000                                                                                  | 6 1.0273 | 11.301           | 71501 SAMASATA T-111.000                             | 6 0.9630 10.593            |
|     | 71502                               | SAMASATA T-211.000                                                                                  | 6 0.9630 | 10.593           | 71591 MUB-PUR-T1 11.000                              | 6 0.9659 10.625            |
|     | 71592                               | MUB-PUR-T2 11.000                                                                                   | 6 0.9659 | 10.625           | 71601 LIAQATPR T-111.000                             | 6 0.9735 10.709            |
|     | 71602                               | LIAQATPR T-211.000                                                                                  | 6 0.9735 | 10.709           | 71702 AHMDPR.E T-211.000                             | 6 0.9812 10.793            |
|     | 71703                               | AHMDPR.E T-311.000                                                                                  | 6 0.9950 | 10.945           | 71704 AHMDPR.E T4 11.000                             | 6 0.9968 10.965            |
|     | 71.801                              | FEROZA T-1 11.000                                                                                   | 6 1.0399 | 11.439           | 71802 FEROZA T-2 11.000                              | 6 1.0255 11.281            |
|     | 71851                               | KHANBELA T-111.000                                                                                  | 6 0.9555 | 10.510           | 71852 KHANBELA T-2                                   | 6 1.0331                   |
|     | 72001                               | KHANPUR T-1 11.000                                                                                  | 6 0.9527 | 10.480           | 72002 KHANPUR T-2 11.000                             | 6 0.9574 10.531            |
|     | 72003                               | KHANPUR T-3 11.000                                                                                  | 6 0.9710 | 10.681           | 72101 MWORSHIA T-111.000                             | 6 1.0340 11.374            |
| :   | 72102                               | MWORSHIA T2 11.000                                                                                  | 6 1.0203 | 11.223           | 72103 T-3 11.000                                     | 6 1.0295 11.325            |
|     | 72201                               | R.Y.KHAN T-111.000                                                                                  | 6 1.0095 | 11.104           | 72202 R.Y.KHAN T-211.000                             | 6 0.9724 10.696            |
|     | 72203                               | R.Y.KHAN T-311.000                                                                                  | 6 1.0148 | 11,163           | 72204 T-4 11.000                                     | 6 0.9996 10.996            |
|     | 72251                               | R Y KHN2 T-111 000                                                                                  | 6 0 9756 | 10.732           | 72252 R Y KHN2 T-211 000                             | 6 0 9724 10 696            |
|     | 72253                               | T-3 11 000                                                                                          | 6 0 9575 | 10 532           | $72291 \pm 1$ 11 000                                 | 6 0 9952 10 948            |
|     | 72292                               | $T_{-2}$ 11 000                                                                                     | 6 0 9952 | 10 948           | 72301 SADTOARD T-111 000                             | 6 1 0245 11 270            |
|     | 72302                               | SADTOARD $T = 211,000$                                                                              | 6 1 0245 | 11 270           | 72303 SADTOARD T-311 000                             | 6 1 0389 11 428            |
|     | 72304                               |                                                                                                     | 6 1 0269 | 11 206           | 72303 SADIQADD 1 511.000                             | 6 1 0084 11 092            |
|     | 72304                               | $W_{A} = A = A = A = A = A = A = A = A = A =$                                                       | 6 1 0132 | 11.250<br>11.145 | 72311 WALANA THE 11.000                              | 6 0 9778 10 756            |
|     | 77357                               | $MAUANA T = 2 \pm 1000$                                                                             | 6 1 0116 | 11 127           | 72331 NAWAZ 1-1 11.000                               | 6 0.9770 10.750            |
|     | 72402                               | $\frac{1}{10}$                                                                                      |          | 10 524           | 72401 J.D.WALL $1-111.000$                           | $6 \ 1 \ 0.774 \ 11 \ 301$ |
|     | 72402                               | MN KU PD T 111 000                                                                                  | 6 1 0140 | 11 164           | 72403  J  D  WALL  1-311.000                         | 6 1.0106 11 116            |
|     | 72502                               |                                                                                                     | 6 1 0149 | 11 161           | 72551 WAD TO T 1 11 000                              | 6 1 025/ 11 200            |
|     | 72552                               | $MIN \cdot KH \cdot KD + - 511 \cdot 000$                                                           |          | 11 101           | $7251 \text{ WAP 10} 1^{-1} \text{ 11} 000$          | 6 1 0012 11 014            |
|     | 72001                               | WAPDA TO $1-211.000$                                                                                | 6 1 0349 | 11 202           | 72534 I=3 II.000<br>72602 MN DC DD T 211 000         |                            |
|     | 720UL                               | MIN. BS. KU I-ILL. UUU                                                                              | 0 1.0348 | 11 202           | 72002 MIN.BS.RD 1-211.000                            | C 0.0004 10.002            |
|     | 72003                               | MIN. BS. RD 1-311.000                                                                               | 0 1.0348 | 11 107           | 72004 I - 4 II.000                                   | 0 U.9994 LU.993            |
|     | 72011                               | PNJB HSG 1-111.000                                                                                  | 6 1.0152 | 11,10/           | 72012 PNJE HSG 1-211.000                             |                            |
|     | 12021                               | ROCH AL2 1-TIT'000                                                                                  | 6 I.0290 | TT' 2TA          | 72051 Q BAGH T-1 11.000                              | 0 U.9857 IU.843            |

|     |                |                                                                                    |                         |         | 2022-   | WTTH.t          | xt                           |        |                              |
|-----|----------------|------------------------------------------------------------------------------------|-------------------------|---------|---------|-----------------|------------------------------|--------|------------------------------|
|     | 72652          | 0 BAGH T-2 11.000                                                                  | 6 0                     | .9925   | 10.917  | 72691           | T-1 11.000                   | 6      | 0.9910 10.901                |
|     | 72692          | $T_{-2}$ 11.000                                                                    | à Õ                     | 9910    | 10,901  | 72701           | MIN-TND T-1 11 000           | õ      | 1 0324 11 357                |
|     | 72702          | MIN - TND T - 2 11 000                                                             | δŏ                      | 9687    | 10 656  | 72703           | MIN-IND T-3 11 000           | ő      | 1 0206 11 227                |
|     | 72731          | SUBI MNT $T = 111 000$                                                             | ĕ ĭ                     | 0370    | 11 407  | 72732           | SURT MNT $T = 211,000$       | 6<br>6 | 1 0235 11 258                |
| · . | 72801          | MN VP PD $T_{-111}$ 000                                                            | $6\overline{1}$         | 0293    | 11 322  | 72802           | MN VR RD $\pm 211.000$       | 6<br>6 | 1 0583 11 641                |
|     | 72803          | MN VR RD $T = 311,000$                                                             | $\tilde{6}$ $\tilde{1}$ | 0357    | 11 393  | 72804           | $T_{-4}$ 11 000              | 6      | $1^{\circ} 0044 11 048$      |
|     | 72851          | $\begin{array}{c} \text{ASTMPLIP} T_{111} \\ \text{ASTMPLIP} \end{array}$          | 6 1                     | 0391    | 11 /30  | 72852           | $ASTMPLIP T_211 000$         | 6      | 1 0305 11 335                |
|     | 72051          | $OASTMPUR T_311 000$                                                               | 6 1                     | 0108    | 11 5/8  | 72857           | $T_{-4}$ 11 000              | 6      | 1.0303 11.333                |
|     | 72871          | $M = T_1 = 11.000$                                                                 | 6 0                     | 0711    | 10 682  | 72034           | M = 1 = 7 $T = 000$          | 6      | $0.9900 \pm 0.901$           |
|     | 72071          | $\begin{array}{c} M,J KD I^{-1} I I I,OOO \\ SHHIADAD T I I I I I OOO \end{array}$ | 6 1                     | . 97 11 | 11 366  | 77887           | $M_{1}J_{1}KD = 2 II_{1}UUU$ | 6      | 1 0224 11 267                |
|     | 72001          | SHUJADAD T = 211,000                                                               | 6 1                     | 00552   | 11.000  | 72002           | $3\pi0JABAD = 1211.000$      | 6      | 1.0334 $11.3071 0215 11 247$ |
|     | 72003          | $3 \pi 0 JABAD 1 - 311,000$                                                        |                         | 0200    | 11,007  | 72091           | J.P.W I = 1 11.000           | 0      | 1.0313 $11.347$              |
|     | 72001          | J.P.W I=2 11.000                                                                   |                         | .0309   | 11 110  | 72093           | $J.P.W I^{-5} II.000$        | 0      | 1.0570 $11.4131.0597 11 646$ |
|     | 72901          | MESCO T = 11.000                                                                   | C 1                     | 0102    |         | 72902           | MESCU = 11.000               | 0      | 1.0367 11.040                |
|     | 72903          | MESCO I = 3 II.000                                                                 |                         | .0290   | 11, 525 | 73201           | GUJRALS II II.000            | 6      | 1.0265 11.292                |
|     | 73202          | GUJRAT.S 13 11.000                                                                 | 01                      | .0310   | 11.300  | 73203           | GUJRALS 12 11.000            | 6      | 1.0256 11.282                |
|     | /3251          | LAYYAH I-1 11.000                                                                  | 0 I                     | .0270   | 11.297  | /3232           | LAYYAH $I-2$ II.000          | 6      | 1.02/0 11.29/                |
|     | / 32 53        | LAYYAH 1-3 11.000                                                                  | 0 1                     | .0269   | 11.290  | /3201           | KBGASHER I-III.000           | 6      |                              |
|     | /3282          | KBGASHER 1-211.000                                                                 | 6 1                     | .0183   | 11.201  | /3301           | MZFRGARH I-111.000           | 6      | 0.9845 10.829                |
|     | 73302          | MZFRGARH 1-211.000                                                                 | 60                      | .9835   | 10.818  | /3303           | MZFRGARH T-311.000           | 6      | 0.9845 10.829                |
|     | /3312          | KOTADU-0 T-211.000                                                                 | 6 T                     | .0445   | 11.490  | /3313           | KOTADU-0 T-311.000           | 6      | 1.0402 11.442                |
|     | /3314          | KOTADU-0 1-411.000                                                                 | 61                      | .0256   | 11.282  | /3321           | N.A.WALL T-211.000           | 6      | 1.0204 11.225                |
|     | 13322          | N.A.WALI T-111.000                                                                 | 6 1                     | .0252   | 11.2//  | /3331           | S S DIN T1 11.000            | . 6    | 1.01/3 11.190                |
|     | /3332          | S S DIN 12 11.000                                                                  | 6 U                     | .9978   | 10.975  | 73351           | KOISULIAN-IIII.000           | 6      | 1.0228 11.251                |
|     | 73352          | KOISULIAN-IZII.000                                                                 | 61                      | .0368   | LL.405  | /3301           | KAROR L.E-IIII.000           | 6      | 0.9944 10.938                |
|     | /3362          | KAROR L.E-T2                                                                       | 60                      | .9944   | 44 504  | 73401           | MEHRKHAS T-111.000           | - 6    | 1.04/3 11.521                |
|     | /3402          | MEHRKHAS T-211.000                                                                 | 6 I                     | .04/3   | 11.521  | 73403           | MEHRKHAS T-3                 | 6      | 1.0020                       |
|     | 73501          | DMR WALA T-111.000                                                                 | 6 I                     | .0152   | 11.167  | 73502           | DMR WALA T-211.000           | 6      | 0.9992 10.991                |
|     | /3601          | JATOIJNB T-111.000                                                                 | 61                      | .0623   | 11.685  | :/3602          | JATOIJNB T-211.000           | · 6    | 1.0559 11.615                |
|     | /3603          | T-3 11.000                                                                         | 61                      | .0509   | 11.560  | /3/01           | KHRPRSDT T-111.000           | 6      | 1.0168 11.185                |
|     | /3/02          | KHPRSDT T-2 11.000                                                                 | 61                      | .0188   | 11.206  | /3951           | SHA.LND T-1 11.000           | 6      | 1.0116 11.127                |
|     | /3952          | SHA LND 1-2 11.000                                                                 | 60                      | .9864   | 10.850  | 74001           | TAUNSA T-L II.000            | 6      | 0.98/9 10.86/                |
|     | 74002          | TAUNSA T-2 11.000                                                                  | 6 0                     | .9879   | 10.867  | 74003           | T-3 11.000                   | 6      | 1.0134 11.148                |
|     | /4121          | T-1 11.000                                                                         | 6 I                     | .0124   | 11.136  | 74131           | T-1 11.000                   | 6      | 1.0130 11.143                |
|     | 74401          | CHOKMNDA I-III.000                                                                 | 6 I                     | ,0261   | 11.287  | 74402           | CHOKMNDA T-211.000           | 6      | 1.0206 11.226                |
|     | 74502          | CHAUBARA 1-211.000                                                                 | 61                      | .0241   | 11.265  | 74562           | CHOKAZAM TI II.000           | 6      | 1.0345 11.379                |
| •   | 74563          | 1-3 11.000                                                                         | 0 1                     | .0101   |         | 74591           | KHANGARH T-111.000           | 6      | 0.9822 10.804                |
|     | 74592          | KHANGARH 1-211.000                                                                 | 0 0                     | .9855   | 10.841  | 74602           | D.G.KHAN 1-211.000           | 6      | 1.0213 11.234                |
|     | 74603          | D.G.KHAN 1-311.000                                                                 | υĹ                      | .0240   | 10 040  | 74604           | D.G.KHAN T-411.000           | 6      | 1.0114 11.125                |
|     | 74641          |                                                                                    | 00                      | .9863   | 10.849  | 74651           | KOICHUIA T-111.000           | 6      | 0.9951 10.946                |
|     | 74652          | KUICHUIA I-211.000                                                                 | 0 0                     | .9951   | 11.014  | 74055           | KUICHUITA ISTT.000           | 6      | 0.9996 10.996                |
|     | 74691          | CHUIT I-1 11.000                                                                   |                         | .0013   | 10,000  | 75001           | KUJHAN I - I II.000          | 6      | L.UUZ8 11.U31                |
|     | /4/3⊥<br>7F002 |                                                                                    | 0 0                     | .9991   | 10.990  | / 3901<br>77011 | SKHISKWK I-III.000           | 6      | U.9980 10.978                |
|     | 75902          | SKISKWK I-2 II.UUU                                                                 | (υ U                    | .9845   | TO 953  | 11011           | YAZMAN-I-1 11.000            | 6      | T'0000 TT'00T                |

Page 6

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| 77812 | YAZMAN T-2 11.000  | 6 1.0000 | 11.001 | 77911  | MAROOT T1    | 11.000  | 6 | 1.0638 | 11.702 |
|-------|--------------------|----------|--------|--------|--------------|---------|---|--------|--------|
| 77912 | MAROOT T-2 11.000  | 6 1.0536 | 11.590 | 78311  | FATEHPUR T-  | 111.000 | 6 | 0.9957 | 10.952 |
| 78312 | FATEPUR T-2 11.000 | 6 1.0086 | 11.094 | 78313  | т-3          | 11.000  | 6 | 1.0379 | 11.417 |
| 78401 | т1 11.000          | 6 1.0012 | 11.013 | 78901  | NAWANKOT T-  | 111.000 | 6 | 1.0165 | 11.181 |
| 79091 | D.G.K.II T-111.000 | 6 1.0372 | 11.409 | 79092  | D.G.K.II T-  | 211.000 | 6 | 1.0254 | 11.280 |
| 79301 | JAMPUR T-1 11.000  | 6 1.0077 | 11.084 | 79302  | JAMPUR T-2   | 11.000  | 6 | 1.0231 | 11.254 |
| 79331 | FAZALPUR T-111.000 | 6 1.0002 | 11.002 | 79332  | FAZALPUR T-2 | 211.000 | 6 | 0.9916 | 10.908 |
| 79511 | RAJANPUR T-111.000 | 6 1.0061 | 11.067 | 79512  | RAJANPUR T-  | 211.000 | 6 | 1.0061 | 11.067 |
| 79513 | RAJANPUR T-3       | 6 0.9787 |        | 79741  | UCH.SHRF T-  | 211.000 | 6 | 1.0023 | 11.025 |
| 79742 | UCH.SHRF T-311.000 | 6 0.9803 | 10.783 | 79743  | UCH.SHRF T-  | 111.000 | 6 | 1.0084 | 11.09  |
| 79751 | UCH (KF) T-111.000 | 6 0.9941 | 10.935 | 79752  | т-2          | •       | 6 | 0.9762 |        |
| 79811 | ALI PUR T-1 11.000 | 6 1.0508 | 11.559 | 79812  | ALIPUR T-2   | 11.000  | 6 | 1.0182 | 11.200 |
| 79813 | ALIPUR T-3 11.000  | 6 1.0057 | 11.063 | 79821  | T-1          | 11.000  | 6 | 1.0038 | 11.042 |
| 79822 | T-2 11.000         | 6 1.0038 | 11.042 | 79841  | H.R. KAN T1  | 11.000  | 6 | 1.0376 | 11.413 |
| 79842 | т-2 11.000         | 6 1.0039 | 11.043 | 79904  | T-4          | 11.000  | 6 | 0.9889 | 10.878 |
| 79961 | FRT MNRO T-111.000 | 6 1.0141 | 11.155 | 732512 | LSM-132KV    | 132.00  | 6 | 1.0277 | 135.66 |
|       |                    |          |        |        |              |         |   |        |        |

### 2023-WITHOUT.txt

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS(R)E TUE, JAN 26 2021 11:42 MEPCO-2023-REVISED-DIIP-WITHOUT

BUSES WITH VOLTAGE GREATER THAN 2.0000:

BUS# X-- NAME --X BASKV AREA V(PU) V(KV) BUS# X-- NAME --X BASKV AREA V(PU) V(KV)

\* NONE \*

BUSES WITH VOLTAGE LESS THAN 1.7000:

| BUS#  | X NAME>      | K BASKV | AREA   | . V(PU) | V(KV)  |     | BUS# | X NAME>      | X BASKV | AREA | ·V(PU) | V(KV)  |
|-------|--------------|---------|--------|---------|--------|-----|------|--------------|---------|------|--------|--------|
| 401   | T-3          | 11.000  | 6      | 0.9926  | 10.919 |     | 502  | т-3          | 11.000  | 6    | 0.9986 | 10.984 |
| 529   | PARCO        | 220.00  | 6      | 1.0386  | 228.50 |     | 5282 | FATMA ENERG  | Y132.00 | 6    | 1.0200 | 134.64 |
| 5283  | FAZAL CLOTH  | 132.00  | 6      | 1.0193  | 134.55 |     | 6030 | QADIRABD     | 132.00  | 6    | 1.0298 | 135.93 |
| 6050  | BNGAHYAT     | 132.00  | 6      | 1.0121  | 133.60 |     | 6070 | YOUSFWLA     | 132.00  | 6    | 1.0233 | 135.08 |
| 6080  | SAHIWALN     | 132.00  | 6      | 1.0155  | 134.05 |     | 6090 | SAHIWAL-O    | 132.00  | 6    | 1.0149 | 133.97 |
| 6095  | SAHIWAL III  | 132.00  | 6      | 1.0122  | 133.61 |     | 6100 | NOORPUR      | 132.00  | 6    | 1.0096 | 133.27 |
| 6101  | ΡΑΚΡΑΤΤΑΝ-2  | 132.00  | 6      | 1.0038  | 132.50 |     | 6120 | PAKPATAN     | 132.00  | 6    | 0.9874 | 130.34 |
| 6130  | HARAPPA      | 132.00  | 6      | 0.9974  | 131.66 |     | 6140 | CHCHWTNI     | 132.00  | 6    | 1.0000 | 132.00 |
| 6149  | KASOWAL132   | 132.00  | 6      | 0.9974  | 131.66 |     | 6150 | SH.FAZAL     | 132.00  | 6    | 0.9763 | 128.87 |
| 6160  | BUREWALA     | 132.00  | 6      | 0.9658  | 127.49 |     | 6162 | BREWLA-O     | 132.00  | 6    | 0.9595 | 126.65 |
| 6163  | GAG00        | 132.00  | 6      | 0.9578  | 126.43 |     | 6169 | VEHARI-N     | 132.00  | . 6  | 0.9988 | 131.84 |
| 6170  | VEHARI-O     | 132.00  | 6      | 0.9947  | 131.30 |     | 6175 | LUDDEN       | 132.00  | 6    | 0.9750 | 128.70 |
| 6178  | KARAMPUR     | 132.00  | 6      | 0.9635  | 127.18 |     | 6179 | MACHIWAL     | 132.00  | 6    | 0.9768 | 128.94 |
| 6180  | ARIFWALA     | 132.00  | 6      | 0.9660  | 127.51 |     | 6181 | ARIFWALA-2   | 132.00  | 6    | 0.9658 | 127.49 |
| 6182  | KAMIRWALA    | 132.00  | 6      | 0.9824  | 129.68 |     | 6190 | BWL,NAGR     | 132.00  | 6    | 0.9695 | 127.97 |
| 6191  | HOTA         | 132.00  | 6      | 0.9597  | 126.68 |     | 6200 | QABULA       | 132.00  | 6    | 0.9578 | 126.44 |
| •6210 | SAHUKA       | 132.00  | 6      | 0.9643  | 127.29 |     | 6220 | HASILPUR     | 132.00  | 6    | 0.9752 | 128.73 |
| 6221  | CHUNAWALA    | 132.00  | 6      | 0.9738  | 128.54 | · · | 6230 | CHISTIAN-O   | 132.00  | 6    | 0.9844 | 129.94 |
| 6231  | CHSTAN-N     | 132.00  | 6      | 0.9905  | 130.75 |     | 6232 | DHARWALA132  | 132.00  | 6    | 0.9781 | 129.11 |
| 6238  | BUKHSHAN 132 | 2132.00 | 6      | 0,9877  | 130.38 |     | 6239 | CHISTIAN 132 | 2132.00 | 6    | 0.9890 | 130.55 |
| 6250  | MAN-KOT      | 132.00  | 6      | 1.0014  | 132.18 |     | 6410 | HASILPUR     | 66.000  | 6    | 0.9752 | 64.365 |
| 6419  | L.SOHANRA    | 132.00  | ···· 6 | 0.9881  | 130.42 |     | 6420 | BEST-GREEN   | 132.00  | 6    | 1.0119 | 133.58 |
| 6421  | K.P.TOMI     | 132.00  | 6      | 0.9776  | 129.05 |     | 6422 | APPOLO-SOLAI | R132.00 | 6    | 1.0100 | 133.32 |
| 6462  | NOORSAR      | 132.00  | 6      | 0.9820  | 129.63 |     | 6482 | MNCHNBAD     | 132.00  | 6    | 0.9574 | 126.38 |
| 6488  | BWL NAGAR-2  | 132.00  | 6      | 0.9775  | 129.04 |     | 6489 | DONGA BNGA   | 132.00  | 6    | 0.9733 | 128.48 |
| 6491  | MCLD.GNJ     | 132.00  | 6      | 0.9536  | 125.87 |     | 6501 | HARONABD     | 132.00  | 6    | 0.9761 | 128.85 |
| 6512  | FAQIRWLI     | 132.00  | 6      | 0.9712  | 128.20 |     | 6519 | KHICHIWALA   | 132.00  | 6    | 0.9692 | 127.93 |
| 6521  | FORTARAS     | 132 00  | 6      | 0.9734  | 128.48 |     | 6666 | ΜΠΤΔΝΝ       | 132.00  | 6    | 1.0179 | 134.37 |

|     | 1. A. A. A. A. A. A. A. A. A. A. A. A. A. |              |        |          |        |        |                                           |       |             |                                          |            |            |        |
|-----|-------------------------------------------|--------------|--------|----------|--------|--------|-------------------------------------------|-------|-------------|------------------------------------------|------------|------------|--------|
|     |                                           |              |        | - 191    |        | 20     | 23-WIT                                    | HOUT. | txt         | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | •          |            |        |
|     | 7000                                      | MTANCHNU     | 132.00 | 6        | 0.9725 | 128.38 |                                           | 7001  | СНАК-83-132 | 132.00                                   | 6 0.98     | 89         | 130.53 |
|     | 7002                                      | 1/ASSOMAL    | 132 00 | ă        | 1 0000 | 122 21 |                                           | 7006  | HEAD STOHNA | T132 00                                  | 6 0 96     | 41         | 127 27 |
|     | 7002                                      | KASSUWAL     | 122.00 | 0.<br>C  | 0.0645 | 107 01 |                                           | 7020  | VUANEWAL    | 132.00                                   | 6 0 03     |            | 178 83 |
|     | 7010                                      | KACHAKHU     | 132.00 | Ö        | 0.9045 | 127.51 |                                           | 7020  |             | 132.00                                   | 0 0.97     | 201        | 120.05 |
|     | 7029                                      | FAUJI-K      | 132.00 | 6        | 1.0000 | 132.00 |                                           | 7030  | KABIKWLA    | 132.00                                   | 6 0.97     | 01         | 120.03 |
|     | 7032                                      | MP.PAHOR     | 132.00 | 6        | 0.9613 | 126.89 |                                           | 7040  | GARHMORE    | 132.00                                   | 6 0.9/     | 55         | 128.77 |
|     | 7042                                      | B-BANGLA     | 132.00 | 6        | 0.9604 | 126.77 | 14 M 1                                    | 7050  | JEHANIAN    | 132.00                                   | 6 0.96     | 598        | 128.02 |
| •   | 7060                                      | CHAK.211     | 132.00 | - 6      | 0.9550 | 126.06 |                                           | 7070  | MAILSI      | 132.00                                   | 6 0.95     | ;93        | 126.62 |
|     | 7075                                      | MUKHDM R     | 132.00 | 6        | 0.9700 | 128.04 |                                           | 7100  | P.GAIB-1    | 132.00                                   | 6 1.01     | .18        | 133.56 |
|     | 7109                                      | P GATE-2     | 132.00 | 6        | 0.9955 | 131.40 |                                           | 7110  | BASTTMI K   | 132.00                                   | 6 0.97     | '62        | 128.86 |
|     | 7115                                      | MTRAN PUR    | 132 00 | ă        | 0 9770 | 128 96 |                                           | 7120  |             | 132.00                                   | 6 1.00     | )64        | 132.85 |
|     | 7125                                      |              | 132.00 | ă        | 0 9762 | 128 86 |                                           | 7130  |             | 132 00                                   | 6 1 00     | 115        | 132 19 |
|     | 7120                                      |              | 122.00 | 6        | 0.0702 | 121 72 |                                           | 7120  |             | 132.00                                   | 6 1 0      | 213        | 136 53 |
|     | 7140                                      |              | 122.00 | 0        | 1 0170 | 174 77 |                                           | 71.33 |             | 122.00                                   |            | 47         | 122 05 |
|     | 7140                                      | BHAWALPR     | 132.00 | . 0      | 1.01/0 | 134.32 |                                           | 7141  | LUDHKAN-Z   | 132.00                                   | 0 1.0      | 41         | 123.93 |
|     | 7145                                      | BPUR CANTI   | 132.00 | b        | 1.0282 | 135.72 |                                           | /140  | CRESI-ENERG | Y132.00                                  | 6 1.04     | 210        | 134.78 |
|     | /14/                                      | KARORPCA     | 132.00 | 6        | 0.9642 | 127.28 |                                           | /148  | QAD-SOL-I   | 132.00                                   | 6 1.04     | 200        | 134.64 |
|     | 7149                                      | DUNYAPUR     | 132.00 | 6        | 0.9514 | 125.58 |                                           | 7150  | SAMASATA    | 132.00                                   | 6 0.98     | 378        | 130.39 |
|     | 7159                                      | MUB-PUR      | 132.00 | 6        | 0.9745 | 128.64 |                                           | 7160  | LIAQATPR    | 132.00                                   | 6 0.97     | '54        | 128.75 |
|     | 7170                                      | AHMDPR.E     | 132.00 | 6        | 0.9680 | 127.78 |                                           | 7175  | RYK-PP      | 132.00                                   | 6 1.03     | L00        | 133.32 |
|     | 7180                                      | FEROZA       | 132.00 | 6        | 1.0093 | 133.23 |                                           | 7185  | KHANBELA    | 132.00                                   | 6 0.99     | 905        | 130.74 |
|     | 7190.                                     | HAMZA-PP     | 132.00 | 6        | 1.0000 | 132.00 |                                           | 7200  | KHANPUR     | 132.00                                   | 6 0.99     | 81         | 131.75 |
|     | 7210                                      | MWORSHTA     | 132.00 | 6        | 0.9758 | 128.80 | 1. J. J. J. J. J. J. J. J. J. J. J. J. J. | 7220  | R.Y.KHAN    | 132.00                                   | 6 0.99     | 983        | 131.78 |
|     | 7221                                      | RVK-NEW      | 132 00 | 6        | 1 0238 | 135 14 |                                           | 7225  | R Y KHN2    | 132.00                                   | 6 0.98     | 390        | 130.54 |
|     | 7220                                      |              | 132.00 | ĥ        | 1 0005 | 132 07 |                                           | 7230  | SADTOARD    | 132 00                                   | 6 1 0      | 61         | 134 12 |
|     | 7221                                      |              | 132.00 | 6        | 1 0205 | 13/ 71 |                                           | 7230  | JADIQADD    | p132.00                                  | 6 1 03     | 200        | 135 96 |
|     | 7725                                      | NAWAZARD     | 122.00 | -0<br>-2 | 1 0108 | 124 61 |                                           | 7232  | DTE         | 132.00                                   | 6 1 01     | 20         | 133 70 |
|     | 7240                                      |              | 122.00 | . U      | 1 0024 | 122 14 |                                           | 7250  |             | 122.00                                   | 6 1 0      | 15         | 133 02 |
|     | 7240                                      | J.D.WALL     | 122.00 | · 0      | 1.0034 | 122.44 |                                           | 7230  |             | 122.00                                   |            | 14J        | 121 60 |
|     | 7200                                      | WAPDATWN     | 132.00 | 0        | 1.0030 | 132.40 |                                           | 7200  | MN.BS.RD    | 122.00                                   | 0 0.93     | )/U        | 131 37 |
|     | /261                                      | PUNJAB HOSNO | 132.00 | .6       | 1.0107 | 133.41 |                                           | 7262  | BUCH VILLAS | 132.00                                   | 0 0.95     | 152        | 131.37 |
|     | 1265                                      | QASIMBGH     | 132.00 | 6        | 0.9997 | 131.96 |                                           | 7269  | RAWAN ROAD  | 132.00                                   | 6 1.00     | 140        | 132.52 |
|     | 7270                                      | MLN-IND      | 132.00 | 6        | 0.9988 | 131.85 |                                           | 1212  | COCA COLA   | 132.00                                   | 6 0.99     | 188        | 131.85 |
|     | 7273                                      | SURAJ MIANI  | 132.00 | - 6.     | 0.9968 | 131.57 |                                           | /275  | C.T.MILL    | 132.00                                   | 6 0.99     | 080        | 131.74 |
| ' . | 7277                                      | APL          | 132.00 | - 6      | 0.9848 | 129.99 |                                           | 7280  | MN.VR.RD    | 132.00                                   | 6 1.00     | 02         | 132.03 |
|     | 7285                                      | QASIMPUR     | 132.00 | 6        | 0.9982 | 131.76 | · ·                                       | 7287  | M.JAILRD    | 132.00                                   | 6 0.99     | 932        | 131.10 |
|     | 7288                                      | SHUJABAD     | 132.00 | 6        | 0.9555 | 126.12 |                                           | 7289  | JALALPWL    | 132.00                                   | 6 0.97     | 723        | 128.34 |
|     | 7290                                      | MESCO        | 132.00 | - 6      | 0.9884 | 130.47 |                                           | 7300  | КАРСО       | 132.00                                   | 6 1.04     | 190        | 138.47 |
|     | 7320                                      | GUIRAT S     | 132.00 | 6        | 1.0270 | 135.57 |                                           | 7325  | LAYYAH      | 132.00                                   | 6 1.02     | 252        | 135.32 |
|     | 7328                                      | KRGASHER     | 132.00 | ĕ        | 1.0262 | 135.46 |                                           | 7330  | MZERGARH    | 132.00                                   | 6 1.0      | 03         | 133.36 |
|     | 7331                                      | KOTADU-O     | 132 00 | Ř        | 1 0474 | 138 25 |                                           | 7332  | N A WALT    | 132.00                                   | $610^{-1}$ | 314        | 136.14 |
|     | 7222                                      |              | 132.00 | 6        | 1 0057 | 132 70 |                                           | 7334  | M GARH NEW  | 132 00                                   | 6 1 0      | 118        | 133 56 |
|     | 7225                                      |              | 122 00 | 6        | 1 02/1 | 126 51 |                                           | 7226  |             | 132.00                                   | 6 1 0      | 110        | 122 57 |
|     | 7000                                      | RUI SULIAN   | 122.00 | - C      | 1 0200 | 124 64 |                                           | 7220  | NARUN LIE   | 132.00                                   | 6 1 0      |            | 133 30 |
|     | 1001                                      |              | 122 00 | U<br>C   | 1.0200 | 120 01 |                                           | 7359  |             | 122 00                                   | 6 0 0      | LUJ<br>701 | 120 10 |
|     | 1340                                      | MEHKKHAS     | 132.00 | 0        | 0.9834 | 120.01 |                                           | 1330  |             | 122 00                                   | 6 0 0      | 01<br>201  | 120 70 |
|     | 13hU                                      | JATULINK     | 132.00 | · b      | 0.9/42 | 120.00 |                                           | 15/0  | KHKPKSDI    | 132.00                                   | 0 0.90     | דרנ        | TT2.10 |

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|     |       |               |         |                                                                                                                                                                                                                                                                                                                                      | 2023-W1          | . I HOU I . | txt          |         |                       |        |
|-----|-------|---------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|--------------|---------|-----------------------|--------|
|     | 7395  | SHAD.LND      | 132.00  | 6 1.0173                                                                                                                                                                                                                                                                                                                             | 134.28           | 7400        | TAUNSA       | 132.00  | 6 1.0063              | 132.84 |
|     | 7412  | P.GHAIB132KV  | /132.00 | 6 1.0085                                                                                                                                                                                                                                                                                                                             | 133.12           | 7413        | SHAH JAMAL   | 132.00  | 6 1.0118              | 133.56 |
|     | 7435  | PARCO         | 132.00  | 6 1.0071                                                                                                                                                                                                                                                                                                                             | 132.93           | 7436        | T-PARCO      | 132.00  | 6 1.0071              | 132.94 |
| d.  | 7440  | CHOKMNDA      | 132.00  | 6 1.0359                                                                                                                                                                                                                                                                                                                             | 136.74           | 7442        | T-AHTM       | 132.00  | 6 1.0405              | 137.34 |
|     | 7443  | АНТМ          | 132.00  | 6 1.0404                                                                                                                                                                                                                                                                                                                             | 137.34           | 7450        | CHAUBARA     | 132.00  | 6 1.0322              | 136.25 |
|     | 7456  | CHOKAZAM      | 132 00  | 6 1 0228                                                                                                                                                                                                                                                                                                                             | 135 01           | 7459        | KHANGARH     | 132 00  | 6 0 9947              | 131 30 |
|     | 7460  |               | 132 00  | 6 1 0118                                                                                                                                                                                                                                                                                                                             | 133 56           | 7462        | MDC-DGK      | 132 00  | 6 1 0153              | 134 01 |
|     | 7463  |               | 132.00  | 6 1 0120                                                                                                                                                                                                                                                                                                                             | 133 59           | 7464        | JAMPR 66-13  | 2132.00 | 6 1 0088              | 133 16 |
|     | 7465  |               | 132.00  | 6 1 0080                                                                                                                                                                                                                                                                                                                             | 122 18           | 7466        |              | 132.00  | 6 1 0110              | 133 /5 |
|     | 7405  | ATM           | 132.00  | 6 1 0100                                                                                                                                                                                                                                                                                                                             | 133.10           | 7/60        |              | 132.00  | 6 1 0123              | 127 67 |
|     | 7407  |               | 132.00  | 6 1 0217                                                                                                                                                                                                                                                                                                                             | 126 10           | 7403        |              | 132.00  | 6 1 0073              | 122 06 |
|     | 7470  |               | 122.00  | 6 1 0221                                                                                                                                                                                                                                                                                                                             | 126 27           | 7580        |              | 122.00  | 6 1 01/6              | 122.00 |
|     | 7500  |               | 122.00  | $0 \pm 0.000 \pm 0.000 \pm 0.000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.0000 \pm 0.00000 \pm 0.00000000$ | 122 74           | 7500        |              | 132.00  | 6 1 0222              | 125 00 |
|     | 7390  | SKHISKWR      | 122.00  | 0 1.0152                                                                                                                                                                                                                                                                                                                             | 122 CA           | 7030        |              | 122.00  | 0 1.0233              | 122 42 |
|     | 7000  | YAZMAN        | 132.00  | 0 1.0124                                                                                                                                                                                                                                                                                                                             | 133.04<br>60 010 | 7021        |              | 132.00  | 0 1.0033              | 122.43 |
|     | 7800  | KOTADDU       | 66.000  | 6 1.0427                                                                                                                                                                                                                                                                                                                             | 00.010           | 7031        | FATEHPUR     | 132.00  | 6 1.0102              | 133.34 |
|     | 7840  | RANGPUR       | 66.000  | 6 1.0245<br>C 1.0202                                                                                                                                                                                                                                                                                                                 | 67.018           | 7842        | I-RANGPR     | 66.000  | 6 1.0403              | 68.65/ |
|     | /880  | CHAUBARA      | 66.000  | 6 1.0303                                                                                                                                                                                                                                                                                                                             | 68.003           | 7890        | NAWANKOT     | 66.000  | 6 1.0263              | 6/./34 |
|     | 7891  | I.NWANKOI     | 66.000  | 6 1.0265                                                                                                                                                                                                                                                                                                                             | 67.748           | 7909        | D.G.KHAN II  | 132.00  | 6 1.0094              | 133.24 |
|     | /930  | JAMPUR        | 132.00  | 6 1.0034                                                                                                                                                                                                                                                                                                                             | 132.45           | 7933        | FAZALPUR     | 132.00  | 6 1.0041              | 132.54 |
|     | /951  | RAJANPUR      | 132.00  | 6 1.00/8                                                                                                                                                                                                                                                                                                                             | 133.03           | 7959        | INDUS ENERGY | Y132.00 | 6 1.0200              | 134.64 |
|     | 7970  | AHMDPR.E      | 66.000  | 6 0.9852                                                                                                                                                                                                                                                                                                                             | 65.020           | /9/4        | UCH.SHRF     | 132.00  | 6 0.9568              | 126.30 |
| • • | 7975  | KOT KHALIFA   | 66.000  | 6 0.9193                                                                                                                                                                                                                                                                                                                             | 60.672           | /9//        | T-UCHSHF     | 66.000  | 6 0.9592              | 63.310 |
|     | 7981  | ALI PUR       | 132.00  | 6 0.9790                                                                                                                                                                                                                                                                                                                             | 129.23           | 7982        | JATOI-2      | 132.00  | 6 0.9/39              | 128.55 |
|     | 7984  | HEAD-RJ-KN    | 132.00  | 6 1.0103                                                                                                                                                                                                                                                                                                                             | 133.36           | 7996        | FORT.MINRO   | 132.00  | 6 1.0134              | 133.76 |
|     | 60301 | QADIRABD T-1  | 111.000 | 6 1.0056                                                                                                                                                                                                                                                                                                                             | 11.061           | 60302       | QADIRABD T-  | 211.000 | 6 1.0056              | 11.061 |
|     | 60501 | BNGAHYAT T-1  | 111.000 | 6 0.9856                                                                                                                                                                                                                                                                                                                             | 10.842           | 60502       | BNGAHYAT T-  | 211.000 | 6 0.9829              | 10.812 |
|     | 60801 | SAHIWALN T-1  | 111.000 | 6 0.9707                                                                                                                                                                                                                                                                                                                             | 10.678           | 60802       | SAHIWALN T-2 | 211.000 | 6 0.9707              | 10.678 |
|     | 60803 | т-3           | 11.000  | 6 1.0164                                                                                                                                                                                                                                                                                                                             | 11.180           | 60901       | SAHWAL-O T-  | 111.000 | 6 1.0172              | 11.190 |
|     | 60902 | SAHWAL-0 T-2  | 211.000 | 6 0.9958                                                                                                                                                                                                                                                                                                                             | 10.954           | 60903       | SAHWAL-O T-  | 311.000 | 6 1.0172              | 11.189 |
|     | 60951 | SWL III T-1   | 11.000  | 6 1.0154                                                                                                                                                                                                                                                                                                                             | 11.169           | 60952       | SWL III T-2  | 11.000  | 6 0.9857              | 10.843 |
|     | 60953 | T-3           | 11.000  | 6 1.0076                                                                                                                                                                                                                                                                                                                             | 11.083           | 61001       | NOORPUR T-1  | 11.000  | 6 1.0046              | 11.050 |
|     | 61002 | NOORPUR $T-2$ | 11.000  | 6 0.9931                                                                                                                                                                                                                                                                                                                             | 10.924           | 61004       | T-3          | 11.000  | 6 0.9830              | 10.813 |
|     | 61011 | т-1           | 11.000  | 6 0.9878                                                                                                                                                                                                                                                                                                                             | 10.866           | 61012       | т-2          | 11.000  | 6 0.9864              | 10.850 |
|     | 61201 | PAKPATAN T-3  | 111.000 | 6 0.9725                                                                                                                                                                                                                                                                                                                             | 10.698           | 61202       | PAKPATAN T-2 | 211.000 | 6 0.9725              | 10.698 |
|     | 61203 | PAKPATAN T-3  | 311.000 | 6 0.9665                                                                                                                                                                                                                                                                                                                             | 10.631           | 61301       | HARAPPA T-1  | 11.000  | 6 0 <sup>.</sup> 9631 | 10.594 |
|     | 61302 | HARAPPA T-2   | 11.000  | 6 1.0077                                                                                                                                                                                                                                                                                                                             | 11.085           | 61401       | CHCHWTNI T-1 | 1       | 6 1.0090              |        |
|     | 61402 | CHCHWTNI T-2  | 211.000 | 6 1.0162                                                                                                                                                                                                                                                                                                                             | 11.178           | 61403       | CHCHWTNI T-  | 311.000 | 6 1.0039              | 11.043 |
|     | 61491 | т-1           | 11.000  | 6 0.9866                                                                                                                                                                                                                                                                                                                             | 10.852           | 61501       | SH.FAZAL T-1 | 111.000 | 6 1.0180              | 11.199 |
|     | 61502 | SH, FAZAL T-2 | 211.000 | 6 1.0180                                                                                                                                                                                                                                                                                                                             | 11.199           | 61503       | т-3          | 11.000  | 6 1.0340              | 11.374 |
|     | 61601 | BUREWALA T-1  | 111.000 | 6 1.0379                                                                                                                                                                                                                                                                                                                             | 11.417           | 61602       | BUREWALA T-2 | 211.000 | 6 1.0089              | 11.098 |
|     | 61603 | BUREWALA T-3  | 311.000 | 6 0.9744                                                                                                                                                                                                                                                                                                                             | 10.718           | 61621       | BREWLA-O T-2 | 111.000 | 6 0.9947              | 10.942 |
|     | 61622 | BREWLA-O T-2  | 211.000 | 6 1.0134                                                                                                                                                                                                                                                                                                                             | 11.147           | 61623       | т-3          | 11.000  | 6 0.9989              | 10.988 |
|     | 61631 | GAG00 T-1     | 11.000  | 6 0.9532                                                                                                                                                                                                                                                                                                                             | 10.485           | 61632       | GAGOO T-2    | 11.000  | 6 0.9598              | 10.558 |

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|----------------|---------------------------------------------------------------------------------------------------------|--------|-------|---------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------|
| 61701          | VEHART-0 T-111 000                                                                                      | 600    | 1791  | 10 770  | 61702  | VEHART = 0 T = 211 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1 0111             | 11,122 |
| 61703          | VEHART - T = 3 - 11 - 000                                                                               | 6 0 0  | 222   | 10 856  | 61751  | $LUDDEN T_1 11 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 0 9534             | 10 488 |
| 61752          | 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =                                                                 | 6 0.3  | 1509  | 10.000  | 61701  | $\begin{array}{c} \text{LODDEN}  1 = 1  111  000 \\ \text{KADAMDUD}  T  111  000 \\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      | 11 000 |
| 01752          | LUDDEN 1-2 11.000                                                                                       | 0 0.3  | 10040 | 10.400  | 01/01  | $\begin{array}{c} KARAMPUR  1 = 111.000 \\ -1 & 11.000 \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0 1,0073             | 10 710 |
| 61782          | KARAMPUR I-211.000                                                                                      | 6 I.(  | 1040  | 11.044  | 61/91  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0.9736             | 10.710 |
| 61/92          | T2 11.000                                                                                               | 6 0.9  | 1/36  | 10./10  | 0180T  | ARIFWALA T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 I.02//             | 11.305 |
| 61802          | ARIFWALA T-211.000                                                                                      | 6 1.(  | )277  | 11.305  | 61803  | ARIFWALA T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9855             | 10.841 |
| 61811          | т-1 11.000                                                                                              | 6 0.9  | 9624  | 10.587  | 61812  | т-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9624             | 10.587 |
| 61821          | KAMIRW T-1 11.000                                                                                       | 6 0.9  | 749   | 10.724  | 61822  | KAMIR W T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9749             | 10.724 |
| 61901          | BWL.NAGR T-111.000                                                                                      | 6 0.9  | 9733  | 10.707  | 61902  | т-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9580             | 10.538 |
| 61903          | BWL.NAGR T-311.000                                                                                      | 6 0.9  | 733   | 10.707  | 61911  | HOTA T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0,9556             | 10.512 |
| 61912          | HOTA T-2 11.000                                                                                         | 6 1 (  | 0061  | 11.067  | 62001  | OABULA T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 0.9987             | 10.986 |
| 62002          | OABILLA T-2 11 000                                                                                      | 610    | 0103  | 11 113  | 62003  | OABULA T - 3 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 0 9921             | 10,913 |
| 62101          | SAHUKA T = 1 11 000                                                                                     | 610    | 007   | 11 008  | 62102  | SAHUKA $T_{-2}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1 0217             | 11 239 |
| 62202          | HASTI DUR $T_2211$ 000                                                                                  | 6 0 0  | 3744  | 10 718  | 62203  | HASTI DUP $T=311$ 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6 0 9783             | 10 761 |
| 62211          | CHUNAW = 1  11  000                                                                                     | 6 0 0  | 0/37  | 10.037  | 62205  | CUTSTIAN $T_{-}111$ 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 0 9770             | 10.701 |
| 62202          | CHURAW $I = I  II,000$                                                                                  | C 0.3  | 194J  | 11 050  | C2201  | CHISTIAN $T^{-111}$ ,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 0.9770             | 10.747 |
| 02302          | CHISTIAN $1-211.000$                                                                                    | 0 1.0  |       | 10.050  | 02303  | CHISTIAU IS II.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0 0.9970             | 10.975 |
| 02321          | DHRANWALA-TIII.000                                                                                      | 0 0.1  | 1900  | 10.950  | 02322  | DHRANWALA-1211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0 0.9955             | 10.950 |
| 62381          |                                                                                                         | 6 0.9  | 1//9  | 10.757  | 62391  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0.9847             | 10.832 |
| 62392          | 1-2 11.000                                                                                              | 6 0.9  | 1847  | 10.832  | 62501  | MAN-KOI I-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9956             | 10.952 |
| 62502          | MAN-KOT T-2 11.000                                                                                      | 6 0.9  | 1956  | 10.952  | 64191  | L.SOHAN T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9694             | 10.664 |
| 6421.L         | K.P.TOMI T-111.000                                                                                      | 6 0.9  | 9775  | 10.752  | 64212  | K.P.TOMI T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9737             | 10./11 |
| 64621          | NOORSAR T-1 11.000                                                                                      | 6 0.9  | 9880  | 10.868  | 64622  | NOORSAR T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0241             | 11.266 |
| 64821          | MNCHNBAD T1 11.000                                                                                      | 6 0.9  | 9966  | 10.963  | 64822  | T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9976             | 10.973 |
| 64881          | т-1 11.000                                                                                              | 6 0.9  | 9843  | 10.828  | 64882  | т-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9574             | 10.531 |
| 64891          | т-1 11.000                                                                                              | 6 1.(  | )131  | 11.144  | 64892  | т-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9611             | 10.572 |
| 64911          | MCLD.GNJ T1 11.000                                                                                      | 6 1.0  | 060   | 11.066  | 64912  | MCLD GNG T-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 0.9998             |        |
| 65012          | HARONABD T-211.000                                                                                      | 6 0 .9 | 979   | 10.977  | 65013  | HARONABD T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9979             | 10.977 |
| 65014          | HARONABD T-311.000                                                                                      | 6 0.9  | 975   | 10.972  | 65121  | FAQIRWLI-T1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0160             | 11.176 |
| 65122          | FAQIRWLI-T2 11.000                                                                                      | 6 1.0  | )160  | 11.176  | 65191  | т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0143             | 11.157 |
| 65192          | т-2 11.000                                                                                              | 6 1.0  | )143  | 11.157  | 65211  | FORTABAS-T1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 1.0113             |        |
| 65212          | FORTABAST-2 11.000                                                                                      | 6 1.0  | 067   | 11.073  | 70001  | MIANCHNU T1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0319             | 11.351 |
| 70002          | MIANCHNU T-211.000                                                                                      | 6 1.0  | 088   | 11.097  | 70003  | MIANCHNU T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0012             | 11.013 |
| 70011          | CHAK-83-T1 11.000                                                                                       | 6 0.0  | 979   | 10.977  | 70012  | СНАК-83-Т2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 0.9979             | 10.977 |
| 70061          | H STDNAT T-111.000                                                                                      | 6 0    | 957   | 10.952  | 70062  | H STDNAT T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0181             | 11.199 |
| 70101          | $K_{A}CH_{A}KHU T = 111 000$                                                                            | 6 0 0  | 1853  | 10 839  | 70102  | $K_{A}CH_{A}KH_{U} = -211 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0.9853             | 10.839 |
| 70103          | KACHAKHU T = 311 000                                                                                    | 6 0 9  | 1929  | 10 922  | 70201  | KHANEWAL $T = 111,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 0 9937             | 10.931 |
| 70202          | KHANEWAL $T = 211 000$                                                                                  | 6 0 0  | 1859  | 10.845  | 70203  | KHANEWAL $T = 311,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 0 9880             | 10 868 |
| 70301          | KARTRWLA = 111 000                                                                                      | 6 1 (  | 1003  | 11 102  | 70302  | KABTRWIA = 211,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0317             | 11 349 |
| 70301          | KABIRWLA T 111.000                                                                                      | 6 0 0  | 1703  | 10 772  | 70302  | MP PAHOP T = 111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 0 9849             | 10 834 |
| 70200          | MD DAUOD $T_211 000$                                                                                    | 6 0 0  | 15/12 | 10./07  | 70401  | CADIMODE $T_111 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 0 0024             | 10 027 |
| 70402          | $\begin{array}{c} \text{PIF}  \text{PAROK} = 1 \\ \text{CADUMODE}  \text{T}  211 \\ 000 \\ \end{array}$ | 6 1 0  |       | 11 061  | 70401  | $\mathbf{D} = \mathbf{D} \mathbf{A} \mathbf{N} \mathbf{C} \mathbf{I} \mathbf{A} \mathbf{T} \mathbf{T} \mathbf{T} \mathbf{T} \mathbf{T} \mathbf{T} \mathbf{D} \mathbf{O} \mathbf{O}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 0 0070             | 10 077 |
| 70501          | $\frac{1}{1}$                                                                                           |        | 1033  | 10 020  | 70421  | $\frac{1}{2} \frac{1}{2} 6 1 0775             | 11 2/2 |
| 70301<br>70502 | JEHANIAN I-III.UUU                                                                                      |        | 1944  | TO 800  | 70302  | J = T = T = T = T = T = T = T = T = T =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0 1.0223<br>6 1 0004 | 11 002 |
| 70503          | JEHANIAN I-311.000                                                                                      | 0 0.9  | 9908  | TO'8AA  | 1000T  | CHAK.ZII I-III.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 L.UU84             | TT'033 |

|     |        |                                                                                                                                                     |                      | 2023-W1             | THOUT txt                                           |                           |
|-----|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|-----------------------------------------------------|---------------------------|
|     | 70602  | СНАК 211 Т-211.000                                                                                                                                  | 6 1,0061             | 11.067              | 70603 CHAK 211 T-311.000                            | 6 1 0198 11 217           |
|     | 70701  | MATLST $T_{-1}$ 11 000                                                                                                                              | 6 1 0189             | 11 208              | 70702 MATLST T-2 11 000                             | 6 1 0189 11 208           |
|     | 70701  | MATLST $T_{-3}$ 11 000                                                                                                                              | 610100               | 11 151              | 70702 MALESI T 2 11.000<br>70751 MUKHDM P T_111 000 | 6 0 0830 10 813           |
|     | 70703  | MAILSI I = 5 II.000                                                                                                                                 | 6 0 0686             | 10 655              | 70751 MORIDMIR 1-111.000                            | 6 1 0040 11 044           |
|     | 70732  | MORHDM.R = 211.000                                                                                                                                  | 6 0.9000             | 11 022              | 71101 DASTIMLK $1 = 111.000$                        | 0 1.0040 11.044           |
|     |        | BASTIMLK 1-211.000                                                                                                                                  | 0 1.0021             | 11.025              | 71105 BASILMLK 1-511.000                            | 6 1.0021 11.023           |
|     | /1151  | MIRAN P 1-1 11.000                                                                                                                                  | 0 1.0033             | 11,036              | 71152 MIRAN P 1-2 11.000                            | 6 1.0033 11.036           |
|     | /1201  | LODHRAN 1-1 11.000                                                                                                                                  | 6 1.03/4             | 11.412              | 71202 LODHRAN 1-2 11.000                            | 6 1.0374 11.412           |
|     | 71203  | LODHRAN T-3 11.000                                                                                                                                  | 6 1.0424             | 11.466              | 71251 LART-1 11.000                                 | 6 0.9856 10.841           |
|     | 71252  | LAR T-2 11.000                                                                                                                                      | 6 0.9856             | 10.841              | 71301 BU.JADID T-111.000                            | 6 1.0133 11.146           |
|     | 71302  | BU.JADID T-211.000                                                                                                                                  | 6 0.9757             | 10.733              | 71401 BHAWALPR T-111.000                            | 6 1.0264 11.291           |
|     | 71402  | BHAWALPR T-211.000                                                                                                                                  | 6 1.0246             | 11.271              | 71403 BHAWALPR T-311.000                            | 6 1.0134 11.148           |
|     | 71405  | BWP 66.000                                                                                                                                          | 6 1.0176             | 67.162              | 71411 т-1 11.000                                    | 6 1.0024 11.027           |
|     | 71412  | т-2 11.000                                                                                                                                          | 6 1.0024             | 11.027              | 71451 BP CANTT T-111.000                            | 6 1.0190 11.210           |
|     | 71452  | BPCANTT T-2 11.000                                                                                                                                  | 6 1.0190             | 11.210              | 71453 т-3 11.000                                    | 6 1.0249 11.274           |
|     | 71471  | KARORPCA T-111.000                                                                                                                                  | 6 0.9927             | 10.920              | 71472 KARORPCA T-211.000                            | 6 1.0192 11.211           |
|     | 71473  | KARORPCA T-311.000                                                                                                                                  | 6 0.9917             | 10.908              | 71491 DUNYAPUR T-311.000                            | 6 1.0099 11.109           |
|     | 71492  | DUNYAPUR T-411.000                                                                                                                                  | 6 1.0099             | 11.109              | 71501 SAMASATA T-111.000                            | 6 0.9590 10.549           |
| Έş. | 71502  | SAMASATA T-211.000                                                                                                                                  | 6 0.9590             | 10.549              | 71591 MUB-PUR-T1 11.000                             | 6 0.9601 10.561           |
|     | 71592  | MUB-PUR-T2 11.000                                                                                                                                   | 6 0.9601             | 10.561              | 71601 LIAOATPR T-111.000                            | 6 0.9651 10.616           |
|     | 71602  | LIAOATPR T-211.000                                                                                                                                  | 6 0.9651             | 10.616              | 71702 AHMDPR E T-211.000                            | 6 0.9906 10.897           |
|     | 71703  | AHMDPR.E T-311.000                                                                                                                                  | 6 0.9817             | 10.798              | 71704 AHMDPR.E T4 11.000                            | 6 0.9799 10.779           |
|     | 71801  | FEROZA T-1 11.000                                                                                                                                   | 6 1.0369             | 11.406              | 71802 FEROZA T-2 11.000                             | 6 1.0214 11.235           |
|     | 71851  | KHANBELA T-111.000                                                                                                                                  | 6 0.9517             | 10.469              | 71852 KHANBELA T-2                                  | 6 1.0295                  |
|     | 72001  | KHANPUR T-1 11.000                                                                                                                                  | 6 1.0038             | 11.041              | 72002 KHANPUR T-2 11.000                            | 6 0.9506 10.457           |
| 1   | 72003  | KHANPUR $T-3$ 11.000                                                                                                                                | 6 0.9656             | 10.621              | 72101 MWORSHTA T-111 000                            | 6 1 0134 11 147           |
|     | 72102  | MWORSHTA T2 11.000                                                                                                                                  | 6 0 9983             | 10.981              | 72103  T-3 11,000                                   | $6 \ 1 \ 0129 \ 11 \ 141$ |
|     | 72201  | $R \times KHAN T = 111 000$                                                                                                                         | 6 1 0135             | 11 148              | 72202 R Y KHAN T - 211 000                          | 6 0 9767 10 743           |
|     | 72201  | $R \times KHAN T - 311 000$                                                                                                                         | 6 1 0187             | 11 206              | 72204  T-4 11 000                                   | 6 0 9994 10 994           |
|     | 72205  | $P \vee KHN2 = 111 000$                                                                                                                             | 6 0 9680             | 10 648              | $72257 P V KHN2 T_211 000$                          | 6 0 9628 10 591           |
|     | 72252  | $T_{-3}$ 11 000                                                                                                                                     | 6 1 0055             | 11 061              | $72291 \text{ T}_{-1}$ 11 000                       | 6 0 9863 10 849           |
|     | 72233  | $T_{-2}$ 11 000                                                                                                                                     | 6 0 9863             | 10 849              | 72301 SADTOARD T-111 000                            | $6 \ 1 \ 0202 \ 11 \ 222$ |
|     | 72302  | $r_{1} = 2$                                                                                                                                         | 6 1 0202             | 11 223              | 72303 SADIOABD T-311 000                            | 6 1 0347 11 381           |
|     | 72302  | 11 000                                                                                                                                              | 6 1 0224             | $11 \ 717$          | 72303 SADIQADD 1-311.000<br>72311 WALANA T-1 11 000 | 6 1 0048 11 053           |
|     | 72304  | $\frac{1}{1000}$                                                                                                                                    | 6 1 0000             | 11 100              | 72351 WALANA 1-1 11.000                             | 6 0 0720 10 702           |
|     | 777257 | $\frac{1}{1000}$                                                                                                                                    | 6 1 0001             | 11 101              | 72301 NAWAZ 1-1 11.000                              | 6 0.9729 10.702           |
|     | 72002  | NAWAZAD $1^{-2}$ 11.000                                                                                                                             | 6 0 0522             | 10 486              | 72401 J.D.WALL T-111.000                            | 6 1 0720 11 762           |
|     | 72402  | $\begin{array}{c} \text{JDWALL} & 1-2 \\ \text{MN} & \text{KU} & \text{PD} \\ \end{array} \\ \begin{array}{c} \text{T} & 111 \\ 000 \\ \end{array}$ | 6 1 0072             | 11 070              | 72403 J D WALL 1-311,000 72502 MN KU PD T 211 000   | 6 1 0027 11 020           |
|     | 72301  | MN KU DD T 211 000                                                                                                                                  | 6 1 0072             | 11 070              | 72551 WAD TO T 1 11 000                             | $0 \pm 0027 \pm 030$      |
|     | 72503  | MIN. KH. KU $1-311.000$                                                                                                                             | 6 1 00072            | 11 005              | 72551 WAP TO 1"1 11.000<br>73554 T 2 11.000         | $0 \pm 0207 \pm 294$      |
|     | 72001  | WAPDA IU 1-211.000                                                                                                                                  | 6 1 0004             | 11 37E              | $72JJ4 I^{-}J = 11000$                              | 0 0.9951 10.924           |
|     | 72001  | MIN. BS. KD 1-111.000                                                                                                                               | 0 1.0230<br>6 1 0350 | 11 07F              | 72002 MN.BS.KD 1~211.000                            | 6 0 0002 10 802           |
|     | 72603  | MN. BS. KD 1-311.000                                                                                                                                |                      | $\pm \pm \cdot 2/3$ | 72004 1-4 II.000                                    | 0 U.99UZ IU.893           |
|     | /2011  | PNJB HSG 1-111.000                                                                                                                                  | 0 1.00/5             | 11 205              | 72012 PNJB HSG 1-211.000                            | 0 1.00/5 11.082           |
|     | 72621  | ROCH AL2 1-TTT'000                                                                                                                                  | 0 T.019P             | TT'502              | /ZØDT Å RACH 1-T TT'000                             | 6 U.9784 IU.763           |

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|       |                                  | 2023-                     | -WITHOUT.txt                                            |                            |
|-------|----------------------------------|---------------------------|---------------------------------------------------------|----------------------------|
| 72652 | Q BAGH T-2 11.000                | 6 0.9848 10.833           | 72691 T-1 11.000                                        | 6 0.9837 10.821            |
| 72692 | т-2 11.000                       | 6 0.9837 10.821           | 72701 MLN-IND T-1 11.000                                | 6 1.0226 11.248            |
| 72702 | MLN-IND T-2 11.000               | 6 0.9584 10.543           | 72703 MLN-IND T-3 11.000                                | 6 1.0101 11.111            |
| 72731 | SURJ MNI T-111.000               | 6 1.0271 11.298           | 72732 SURJ MNI T-211.000                                | 6 1.0139 11.153            |
| 72801 | MN.VR.RD T-111.000               | 6 1.0220 11.242           | 72802 MN.VR.RD T-211.000                                | 6 1.0509 11.559            |
| 72803 | MN.VR.RD T-311.000               | 6 1.0286 11.315           | 72804 T-4 11,000                                        | 6 0.9975 10.973            |
| 72851 | OASTMPUR T-111.000               | 6 1.0315 11.347           | 72852 OASIMPUR T-211.000                                | 6 1.0230 11.253            |
| 72853 | OASTMPUR T-311.000               | 6 1.0422 11.464           | 72854 T-4 11.000                                        | 6 0.9915 10.907            |
| 72871 | M = RD T - 1 = 11 = 000          | 6 0 9594 10 554           | $72872 \text{ M}_{-1} \text{ RD} \text{ T}_{-2} 11,000$ | 6 0.9594 10.554            |
| 72881 | SHUJABAD $T = 111 000$           | 6 1 0206 11 226           | 72882 SHUJABAD T-211.000                                | 6 1.0209 11.230            |
| 72883 | SHUJABAD $T = 311 000$           | 6 0 9945 10 939           | 72891 1 P W T-1 11.000                                  | 6 1.0335 11.368            |
| 72892 | 1 P W T = 2 11 000               | 6 1 0327 11 360           | 72893 1 P W T-3 11 000                                  | 6 1.0387 11.426            |
| 72901 | MESCO T $-1$ 11 000              | 6 1 0024 11 026           | 72902  MESCO T- 2 11 000                                | 6 1 0506 11 557            |
| 72903 | MESCO T $-3$ 11 000              | 6 1 0217 11 239           | 73201  GUIRAT S T1 11 000                               | 6 1.0220 11.242            |
| 73202 | GUIRAT S T3 11 000               | 6 1 0276 11 303           | 73203  CUIRAT S T2 11 000                               | 6 1 0212 11 233            |
| 73251 | $1 \text{ AVVAH } T_{-1}$ 11 000 | 6 1 0218 11 239           | 73252 + AVVAH T = 2 + 11 + 000                          | 6 1 0218 11 239            |
| 73253 | $1 \text{ AVYAH } T_3 11 000$    | 6 1 0228 11 251           | 73281 KRGASHER T-111 000                                | 6 1 0123 11 136            |
| 73233 | $K_{RCASHED} = T_211 000$        | $6 \ 1 \ 0136 \ 11 \ 150$ | 73201  MZEPCAPH T -111 000                              | 6 0 9722 10 694            |
| 73302 | MZERGARH $T_211,000$             | 6 0 9711 10 682           | 73303  MZERGARH  T = 311 000                            | 6 0 9722 10 694            |
| 73312 | KOTADU=0 T=211.000               | $6 \ 1 \ 0420 \ 11 \ 462$ | 73313 KOTADU-O T-311 000                                | $6 \ 1 \ 0.368 \ 11 \ 405$ |
| 73314 | KOTADU = 0 T = 411 000           | $6 \ 1 \ 0234 \ 11 \ 258$ | 73321 N A WALT T-211 000                                | 6 1 0181 11 199            |
| 73322 | N A WALT $T_{-111} 000$          | $6 \ 1 \ 0231 \ 11 \ 254$ | 73331 S S DIN T1 11 000                                 | 6 1 0113 11 124            |
| 73332 | S S DTN T2 11 000                | 6 0 9923 10 915           | 73351 KOTSULTAN-T111 000                                | 6 1.0205 11.225            |
| 73352 | KOTSULTAN-T211 000               | 6 1 0342 11 377           | 73361 KAROR L F-T111.000                                | 6 0.9875 10.863            |
| 73362 | KAROR $I_{F}$                    | 6 0 9876                  | 73401 MEHRKHAS T-111.000                                | 6 1.0209 11.230            |
| 73402 | MEHRKHAS T-211.000               | 6 1.0209 11.230           | 73403 MEHRKHAS T-3                                      | 6 0.9770                   |
| 73501 | DMR WALA T-111.000               | 6 0.9716 10.688           | 73502 DMR WALA T-211.000                                | 6 0.9403 10.344            |
| 73601 | JATOLINB T-111.000               | 6 1.0137 11.151           | 73602 JATOTINE T-211.000                                | 6 1.0030 11.032            |
| 73603 | T-3 11.000                       | 6 1.0037 11.041           | 73701 KHRPRSDT T-111.000                                | 6 0.9748 10.723            |
| 73702 | KHPRSDT T-2 11.000               | 6 0.9787 10.765           | 73951 SHA.LND T-1 11.000                                | 6 1.0096 11.105            |
| 73952 | SHA LND T-2 11.000               | 6 0.9837 10.821           | 74001 TAUNSA T-1 11.000                                 | 6 0.9844 10.828            |
| 74002 | TAUNSA T-2 11.000                | 6 0.9844 10.828           | 74003 T-3 11.000                                        | 6 1.0110 11.121            |
| 74121 | T-1 11.000                       | 6 1.0060 11.066           | 74131 т-1 11.000                                        | 6 1.0057 11.063            |
| 74401 | CHOKMNDA T-111.000               | 6 1.0238 11.261           | 74402 CHOKMNDA T-211.000                                | 6 1.0182 11.201            |
| 74502 | CHAUBARA T-211.000               | 6 1.0192 11.212           | 74562 CHOKAZAM T1 11.000                                | 6 1.0286 11.315            |
| 74563 | т-3 11.000                       | 6 1.0057 11.063           | 74591 KHANGARH T-111.000                                | 6 0.9602 10.562            |
| 74592 | KHANGARH T-211.000               | 6 0.9649 10.613           | 74602 D.G.KHAN T-211.000                                | 6 1.0135 11.148            |
| 74603 | D.G.KHAN T-311.000               | 6 1.0163 11.179           | 74604 D.G.KHAN T-411.000                                | 6 1.0034 11.037            |
| 74641 | т-1 11.000                       | 6 0.9961 10.957           | 74651 KOTCHUTA T-111.000                                | 6 0.9900 10.890            |
| 74652 | КОТСНИТА Т-211.000               | 6 0.9900 10.890           | 74653 KOTCHUTTA T311.000                                | 6 0.9945 10.939            |
| 74691 | СНОТІ Т-1 11.000                 | 6 0.9966 10.963           | 74701 ROJHAN T-1 11.000                                 | 6 1.0009 11.010            |
| 74731 | Т-1 11.000                       | 6 0.9977 10.975           | 75901 SKHISRWR T-111.000                                | 6 0.9929 10.922            |
| 75902 | SKISRWR T-2 11.000               | 6 0.9788 10.767           | 77811 YAZMAN-T-1 11.000                                 | 6 0.9900 10.890            |

|   |       |             |          |          | 2023     | 3-w3 | [THOUT.txt                |   |        |        |
|---|-------|-------------|----------|----------|----------|------|---------------------------|---|--------|--------|
|   | 77812 | YAZMAN T-2  | 11.000   | 6 0.9900 | 10.890   |      | 77911 MAROOT T1 11.000    | 6 | 1.0410 | 11.451 |
|   | 77912 | MAROOT T-2  | 11.000   | 6 1.0304 | 11.334   |      | 78311 FATEHPUR T-111.000  | 6 | 0.9883 | 10.872 |
|   | 78312 | FATEPUR T-2 | 11.000   | 6 1.0025 | 11.028   |      | 78313 Т-3 11.000          | 6 | 1.0321 | 11.353 |
|   | 78401 | т1          | 11.000   | 6 0.9978 | 10.976   |      | 78901 NAWANKOT T-111.000  | 6 | 1.0109 | 11.120 |
|   | 79091 | D.G.K.II T- | 111.000  | 6 1.0286 | 11.314   |      | 79092 D.G.K.II T-211.000  | 6 | 1.0161 | 11.177 |
|   | 79301 | JAMPUR T-1  | 11.000   | 6 0.9808 | 10.789   |      | 79302 JAMPUR T-2 11.000   | 6 | 1.0025 | 11.027 |
|   | 79331 | FAZALPUR T- | 111.000  | 6 1.0021 | 11.023   |      | 79332 FAZALPUR T-211.000  | 6 | 0.9925 | 10.917 |
|   | 79511 | RAJANPUR T- | 111.000  | 6 1.0002 | 11.002   |      | 79512 RAJANPUR T-211.000  | 6 | 1.0002 | 11.002 |
|   | 79513 | RAJANPUR T- | 3        | 6 0.9724 |          |      | 79741 UCH.SHRF T-211.000  | 6 | 0.9942 | 10.936 |
|   | 79742 | UCH.SHRF T- | 311.000  | 6 0.9727 | 10.700   |      | 79743 UCH.SHRF T-111.000  | 6 | 0.9998 | 10.997 |
|   | /9/51 | UCH (KF) T- | 111.000  | 6 0.9699 | 10.669   |      | 79752 т-2                 | 6 | 0.9544 |        |
|   | 79811 | ALI PUR T-1 | . 11.000 | 60.9197  | 10.116   |      | 79812 ALIPUR T-2 11.000   | 6 | 0.9931 | 10.924 |
| • | 79813 | ALIPUR T-3  | 11.000   | 6 0.9750 | 10.725   |      | 79821 T-1 11.000          | 6 | 0.9664 | 10.631 |
| - | 79822 | 1-2         | 11.000   | b U.9664 | 10.631   |      | /9841 H.R. KAN T1 11.000  | 6 | 1.0277 | 11.304 |
|   | 79842 | 1-2         | 111.000  | b 0.9937 | 10.931   |      | /9904 T-4 11.000          | 6 | 0.9812 | 10.793 |
| ' | 79961 | FRI MNRO T- | TTT 000  | b ⊥.0098 | : 11.108 |      | /32512_LSM-132KV = 132_00 | 6 | 1 0247 | 135 26 |

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PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS(R)E TUE, JAN 26 2021 11:44 MEPCO-2023-REVISED-DIIP-WITH

BUSES WITH VOLTAGE GREATER THAN 2.0000:

BUS# X-- NAME --X BASKV AREA V(PU) V(KV) BUS# X-- NAME --X BASKV AREA V(PU) V(KV)

\* NONE \*

#### BUSES WITH VOLTAGE LESS THAN 1.7000:

| BUS#  | X NAME>      | X BASKV | AREA | V(PU)  | V(KV)  | В | US# | X NAME>      | K BASKV | AREA | V(PU)  | V(KV)  |
|-------|--------------|---------|------|--------|--------|---|-----|--------------|---------|------|--------|--------|
| 401   | т-3          | 11.000  | 6    | 0.9947 | 10.942 |   | 502 | т-3          | 11.000  | 6    | 1.0004 | 11.005 |
| `529  | PARCO        | 220.00  | 6    | 1.0386 | 228.50 | 5 | 282 | FATMA ENERGY | Y132.00 | 6    | 1.0200 | 134.64 |
| 5283  | FAZAL CLOTH  | 132.00  | 6    | 1.0193 | 134.55 | 6 | 030 | QADIRABD     | 132.00  | 6    | 1.0327 | 136.32 |
| 6050  | BNGAHYAT     | 132.00  | 6    | 1.0144 | 133.90 | 6 | 070 | YOUSFWLA     | 132.00  | 6    | 1.0266 | 135.52 |
| 6080  | SAHIWALN     | 132.00  | 6    | 1.0187 | 134.47 | 6 | 090 | SAHIWAL-O    | 132.00  | 6    | 1.0189 | 134.49 |
| 6095  | SAHIWAL III  | 132.00  | 6    | 1.0160 | 134.11 | 6 | 100 | NOORPUR      | 132.00  | 6    | 1.0131 | 133.73 |
| 6101  | ΡΑΚΡΑΤΤΑΝ-2  | 132.00  | 6    | 1.0073 | 132.96 | 6 | 120 | PAKPATAN     | 132.00  | 6    | 0.9916 | 130.89 |
| 6130  | HARAPPA      | 132.00  | 6    | 1.0036 | 132.48 | 6 | 140 | CHCHWTNI     | 132.00  | 6    | 1.0088 | 133.16 |
| 6149  | KASOWAL132   | 132.00  | 6    | 1.0049 | 132.65 | 6 | 150 | SH.FAZAL     | 132.00  | 6    | 0.9856 | 130.10 |
| 6160  | BUREWALA     | 132.00  | 6    | 0.9754 | 128.75 | 6 | 162 | BREWLA-O     | 132.00  | 6    | 0.9693 | 127.94 |
| 6163  | GAGOO        | 132.00  | 6    | 0.9669 | 127.63 | 6 | 169 | VEHARI-N     | 132.00  | 6    | 1.0084 | 133.11 |
| 6170  | VEHARI-O     | 132.00  | 6    | 1.0050 | 132.66 | 6 | 175 | LUDDEN       | 132.00  | 6    | 0.9852 | 130.04 |
| 6178  | KARAMPUR     | 132.00  | 6    | 0.9743 | 128.61 | 6 | 179 | MACHIWAL     | 132.00  | 6    | 0.9865 | 130.21 |
| 6180  | ARIFWALA     | 132.00  | 6    | 0.9743 | 128.61 | 6 | 181 | ARIFWALA-2   | 132.00  | 6    | 0.9741 | 128.59 |
| 6182  | KAMIRWALA    | 132.00  | 6    | 0.9891 | 130.56 | 6 | 190 | BWL.NAGR     | 132.00  | 6    | 0.9794 | 129.27 |
| 6191  | HOTA         | 132.00  | 6    | 0.9691 | 127.92 | 6 | 200 | QABULA       | 132.00  | 6    | 0.9671 | 127.65 |
| 6210  | SAHUKA       | 132.00  | 6    | 0.9742 | 128.59 | 6 | 220 | HASILPUR     | 132.00  | 6    | 0.9845 | 129.95 |
| 6221  | CHUNAWALA    | 132.00  | 6    | 0.9831 | 129.77 | 6 | 230 | CHISTIAN-O   | 132.00  | 6    | 0.9950 | 131.34 |
| 6231  | CHSTAN-N     | 132.00  | 6    | 1.0012 | 132.16 | 6 | 232 | DHARWALA132  | 132.00  | 6    | 0.9890 | 130.54 |
| 6238  | BUKHSHAN 132 | 2132.00 | 6    | 0.9985 | 131.80 | 6 | 239 | CHISTIAN 132 | 2132.00 | 6    | 0.9997 | 131.96 |
| 6250  | MAN-KOT      | 132.00  | 6    | 1.0032 | 132.42 | 6 | 410 | HASILPUR     | 66.000  | 6    | 0.9845 | 64.976 |
| 641.9 | L.SOHANRA    | 132.00  | 6    | 0.9930 | 131.07 | 6 | 420 | BEST-GREEN   | 132.00  | 6    | 1.0154 | 134.03 |
| 6421  | K.P.TOMI     | 132.00  | - 6  | 0.9846 | 129.96 | 6 | 422 | APPOLO-SOLAI | 132.00  | 6    | 1.0135 | 133.78 |
| 6462  | NOORSAR      | 132.00  | 6    | 0.9926 | 131.02 | 6 | 482 | MNCHNBAD     | 132.00  | 6    | 0.9689 | 127.89 |
| 6488  | BWL NAGAR-2  | 132.00  | 6    | 0.9885 | 130.48 | 6 | 489 | DONGA BNGA   | 132.00  | 6    | 0.9863 | 130.19 |
| 6491  | MCLD.GNJ     | 132.00  | 6    | 0.9652 | 127.40 | 6 | 501 | HARONABD     | 132.00  | 6    | 0.9890 | 130.55 |
| 6512  | FAQIRWLI     | 132.00  | 6    | 0.9887 | 130.50 | 6 | 519 | KHICHIWALA   | 132.00  | 6    | 0.9872 | 130.31 |
| 6521  | FORTABAS     | 132.00  | 6    | 0.9917 | 130.91 | 6 | 666 | MULTAN-N     | 132.00  | 6    | 1.0197 | 134.60 |
|        |             |         |            | a          | 202    | 3-WTTH. t | xt           |         |                                         |
|--------|-------------|---------|------------|------------|--------|-----------|--------------|---------|-----------------------------------------|
| 7000   | MTANCHNU    | 132 00  | 6          | 0.9864     | 130.21 | 7001      | СНАК-83-132  | 132.00  | 6 1,0018 132,24                         |
| 7000   | KASSOWAL    | 132.00  | с<br>Б     | 1 0105     | 134 58 | 7006      |              | 132.00  | 6 0 9671 127 66                         |
| 7002   | KASSOWAL    | 122.00  | c<br>c     | 0.0715     | 170 74 | 7000      |              | 122.00  | 6 0 0701 120 24                         |
| 7010   | KACHAKHU    | 172.00  | U<br>C     | 1 0000     | 122 00 | 7020      |              | 122.00  | $C = 0 = 0721 = 129 \cdot 24$           |
| 7029   | FAUJI-K     | 132.00  | 0          | 1.0000     | 132.00 | 7030      | KABIKWLA     | 132.00  | 0 0.9751 120.45                         |
| 7032   | MP.PAHOR    | 132.00  | · 6        | 0.9643     | 127.29 | 7040      | GARHMORE     | 132.00  | 6 0.9834 129.81                         |
| 7042   | B-BANGLA    | 132.00  | 6          | 0.9633     | 127.16 | 7050      | JEHANIAN     | 132.00  | 6 0.9759 128.82                         |
| 7060   | CHAK.211    | 132.00  | 6          | 0.9613     | 126.89 | 7070      | MAILSI       | 132.00  | 6 0.9655 127.44                         |
| 7075   | MUKHDM . R  | 132.00  | 6          | 0.9746     | 128.64 | 7100      | P.GAIB-1     | 132.00  | 6 1.0136 133.80                         |
| 7109   | P.GAIB-2    | 132.00  | 6          | 0.9981     | 131.74 | 7110      | BASTIMLK     | 132.00  | 6 0.9784 129.15                         |
| 7111   | KHANEWAL-2  | 132.00  | 6          | 0.9820     | 129.63 | 7115      | MIRAN PUR    | 132.00  | 6 0.9792 129.26                         |
| 7120   | LODHRAN     | 132.00  | 6          | 1.0085     | 133.12 | 7125      | LAR          | 132.00  | 6 0.9786 129.18                         |
| 7130   | BU.JADID    | 132.00  | 6          | 1.0035     | 132.46 | 7138      | bwpn-2       | 132.00  | 6 1.0026 132.35                         |
| 7139   | B.W.P-N     | 132.00  | 6          | 1.0362     | 136.78 | 7140      | BHAWALPR     | 132.00  | 6 1.0196 134.58                         |
| 7141   | LODHRAN-2   | 132.00  | 6          | 1.0167     | 134.21 | 7145      | BPUR CANTT   | 132.00  | 6 1.0294 135.88                         |
| 7146   | CREST-ENERG | Y132.00 | 6          | 1.0212     | 134.80 | 7147      | KARORPCA     | 132.00  | 6 0.9696 127.99                         |
| 7148   | OAD-SOL-T   | 132.00  | Ğ.         | 1.0200     | 134.64 | 7149      | DUNYAPUR     | 132.00  | 6 0.9569 126.32                         |
| 7150   | SAMASATA    | 132.00  | Ğ.         | 0.9936     | 131.16 | 7153      | KOT KHALIFA  | 132.00  | 6 0.9714 128.22                         |
| 7159   | MUB-PUR     | 132.00  | Ğ          | 0.9835     | 129.82 | 7160      | I TAOATPR    | 132.00  | 6 0.9757 128.79                         |
| 7170   | AHMDPR F    | 132.00  | ĕ          | 0.9782     | 129.12 | 7175      | RYK-PP       | 132.00  | 6 1.0100 133.32                         |
| 7180   | FEROZA      | 132.00  | ň          | 1.0123     | 133.62 | 7185      | KHANBELA     | 132.00  | 6 0.9962 131.50                         |
| 7190   | HAMZA-PP    | 132.00  | Ğ          | 1.0000     | 132.00 | 7200      | KHANPUR      | 132.00  | 6 1.0060 132.79                         |
| 7210   | MWORSHTA    | 132.00  | ő          | 1.0183     | 134.42 | 7211      | VEHART-2     | 132.00  | 6 1.0080 133.06                         |
| 7220   | R Y KHAN    | 132 00  | ň          | 0.9984     | 131.79 | 7221      | RYK-NFW      | 132.00  | 6 1.0246 135.25                         |
| 7225   | R Y KHN2    | 132.00  | ő          | 0.9893     | 130.58 | 7229      | RYK-3        | 132.00  | 6 1.0007 132.10                         |
| 7230   | SADTOARD    | 132 00  | Ğ          | 1 0165     | 134.17 | 7231      | SANJARPUR    | 132.00  | 6 1.0208 134.75                         |
| 7232   | IDW TT USM  | P132 00 | ĕ          | 1 0300     | 135.96 | 7235      | NAWAZARD     | 132.00  | 6 1.0210 134.77                         |
| 7237   | DIE         | 132.00  | ă          | 1 0133     | 133 76 | 7240      |              | 132 00  | 6 1 0038 132 50                         |
| 7250   |             | 132.00  | 6          | 1 0163     | 134 15 | 7255      |              | 132 00  | 6 1 0049 132 65                         |
| 7260   |             | 132.00  | 6<br>6     | 0 9989     | 131 85 | 7261      | PUNJAR HOSNO | 3132.00 | 6 1 0125 133 65                         |
| 7200   |             | 132.00  | 6          | 0.9972     | 131 63 | 7265      |              | 132 00  | 6 1 0016 132 21                         |
| 7260   |             | 132.00  | 6          | 1 0058     | 132 76 | 7270      |              | 132.00  | $6 \ 1 \ 0009 \ 132 \ 12$               |
| 7209   | COCA COLA   | 132.00  | 6          | 1 0000     | 132.70 | 7273      | CHDAD MTANT  | 132.00  | $6 \cap 9988 131 84$                    |
| 7275   | CUCA CULA   | 122.00  | - G        | 1 0001     | 122 01 | 7273      | ADI          | 132.00  | 6 0 0053 131 38                         |
| 7273   | C.I.MILL    | 122.00  | . 6        | 1 0021     | 122.01 | 7285      |              | 132,00  | $6 \ 1 \ 0.001 \ 132 \ 01$              |
| 7200   |             | 122.00  | 6          | 1.0021     | 121 20 | 7205      | CHUIADAD     | 122.00  | 6 0 9578 126 42                         |
| 7207   |             | 122.00  | 0          | 0.9933     | 120 62 | 7200      | SHUJABAD     | 122.00  | 0 0.9370 120.43                         |
| 7209   | JALALPWL    | 122.00  | - 0<br>- C | 1 0400     | 120.05 | 7290      |              | 122.00  | $6 \ 0.3304 \ 130.73$                   |
| 7300   | KAPCO       | 132.00  | 0<br>C     | 1.0490     | 125.47 | 7011      |              | 122.00  | 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + |
| 7320   | GUJRAL S    | 132.00  | 0          | 1,0203     | 125.70 | 7323      |              | 122.00  | 0 1.0232 133.32                         |
| :/ 328 | KEGASHER    | 122.00  | b<br>C     | $\pm 0272$ | 130.37 | 1000      |              | 122.00  | C 1 0214 12C 14                         |
| /331   | KUTADU-O    | 122.00  | 6          |            | 122 90 | 1332      | N.A.WALI     | 122.00  | $0 \pm 0.05 \pm 4 \pm 50.14$            |
| 1333   | S.S.DIN     | 132.00  | . 6.       | 1.0005     | 132.00 | / 334     | M GARH NEW   | 132.00  | $0 \pm .0139 \pm 33.84$                 |
| 1335   | KOTSULTAN   | 132.00  | 6          | 1.0341     | 130.51 | 7336      | KAROR L.E    | 132.00  | 6 1.0119 133.57                         |
| 7337   | EPGL        | 132.00  | 6          | 1.0200     | 134.64 | /339      | DUMMY IND    | T37.00  | 6 I.UI26 I33.66                         |

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|    |       |              |         |          | 2023-1 | WITH.t | xt           |         |   |        |        |
|----|-------|--------------|---------|----------|--------|--------|--------------|---------|---|--------|--------|
|    | 7340  | MEHRKHAS     | 132.00  | 6 0.9894 | 130.61 | 7350   | DMR WALA     | 132.00  | 6 | 0.9849 | 130.01 |
|    | 7360  | JATOIJNB     | 132.00  | 6 0.9823 | 129.66 | 7370   | KHRPRSDT     | 132.00  | 6 | 0.9935 | 131.14 |
|    | 7395  | SHAD.LND     | 132.00  | 6 1.0173 | 134.28 | 7400   | TAUNSA       | 132.00  | 6 | 1.0064 | 132.84 |
|    | 7411  | MIANCHANU-2  | 132.00  | 6 0.9811 | 129.50 | 7412   | P.GHAIB132K  | /132.00 | 6 | 1.0103 | 133.36 |
|    | 7413  | SHAH JAMAL   | 132.00  | 6 1.0139 | 133.84 | 7414   | KOT MITHAN   | 132.00  | 6 | 1.0180 | 134.38 |
|    | 7416  | DRAWAR MORE  | 132.00  | 6 1.0135 | 133.78 | 7435   | PARCO        | 132.00  | 6 | 1.0134 | 133.77 |
|    | 7436  | T-PARCO      | 132.00  | 6 1.0134 | 133.77 | 7440   | CHOKMNDA     | 132.00  | 6 | 1.0359 | 136.74 |
|    | 7442  | T-AHTM       | 132.00  | 6 1.0405 | 137.34 | 7443   | AHTM         | 132.00  | 6 | 1.0405 | 137.34 |
|    | 7450  | CHAUBARA     | 132.00  | 6 1.0322 | 136.25 | 7456   | CHOKAZAM     | 132.00  | 6 | 1.0228 | 135.01 |
|    | 7459  | KHANGARH     | 132 00  | 6 0 9994 | 131.92 | 7460   | D. G. KHAN   | 132.00  | 6 | 1.0139 | 133.84 |
|    | 7462  | MDC-DGK      | 132 00  | 6 1 0165 | 134,18 | 7463   | CPC-DGK      | 132.00  | õ | 1.0140 | 133.84 |
|    | 7464  | 1AMPR 66-132 | 132 00  | 6 1 0053 | 132 70 | 7465   |              | 132 00  | õ | 1.0090 | 133 19 |
|    | 7466  | T-ATM        | 132.00  | 6 1.0124 | 133.63 | 7467   | ATM          | 132.00  | õ | 1.0124 | 133.63 |
|    | 7469  | СНОТТ 132    | 132 00  | 6 1 0130 | 133 72 | 7470   | ROJHAN       | 132 00  | ň | 1.0324 | 136.27 |
| •  | 7473  |              | 132 00  | 6 1 0038 | 132 51 | 7477   | ZENEA        | 132.00  | ň | 1.0331 | 136.37 |
|    | 7580  | CMNT FCT     | 132.00  | 6 1 0161 | 134 12 | 7590   | SKHTSRWR     | 132 00  | õ | 1 0144 | 133 90 |
|    | 7650  |              | 132.00  | 6 1 0237 | 135 13 | 7781   | ΥΔ7ΜΔΝ       | 132 00  | õ | 1.0160 | 134 11 |
|    | 7791  | MAROOT       | 132.00  | 6 1 0082 | 133 08 | 7800   | KOTADDU      | 66 000  | 6 | 1.0427 | 68,819 |
|    | 7831  | EATEHPUR     | 132.00  | 6 1 0102 | 133 34 | 7840   | RANGPUR      | 66,000  | ñ | 1.0245 | 67 618 |
|    | 7842  | T-RANGPR     | 66 000  | 6 1 0403 | 68 657 | 7880   | CHAURARA     | 66.000  | õ | 1.0304 | 68.003 |
|    | 7890  | NAWANKOT     | 66,000  | 6 1 0263 | 67 735 | 7891   | T NWANKOT    | 66,000  | ñ | 1.0265 | 67.748 |
|    | 7909  | D G KHAN TT  | 132 00  | 6 1 0114 | 133 50 | 7930   |              | 132 00  | 6 | 1.0077 | 133.02 |
|    | 7933  |              | 132 00  | 6 1 0104 | 133 37 | 7951   | RAJANPUR     | 132.00  | ň | 1.0141 | 133.87 |
|    | 7959  | TNDUS ENERGY | 132.00  | 6 1.0200 | 134.64 | 7974   | UCH, SHRE    | 132.00  | 6 | 0.9671 | 127.66 |
|    | 7981  | ALT PUR      | 132.00  | 6 0.9893 | 130.58 | 7982   | JATOT-2      | 132.00  | õ | 0.9826 | 129.71 |
|    | 7984  | HEAD-RI-KN   | 132.00  | 6 1.0139 | 133.83 | 7996   | FORT.MTNRO   | 132.00  | Ğ | 1.0145 | 133.92 |
| 6  | 50301 | OADTRARD T-1 | 11,000  | 6 1.0086 | 11,095 | 60302  | OADTRABD T-2 | 211.000 | 6 | 1.0086 | 11.095 |
| 6  | 50501 | BNGAHYAT T-1 | 11.000  | 6 0.9881 | 10.869 | 60502  | BNGAHYAT T-2 | 211.000 | õ | 0.9855 | 10.840 |
| 6  | 50801 | SAHIWALN T-1 | 11.000  | 6 0.9742 | 10.716 | 60802  | SAHIWALN T-2 | 211.000 | 6 | 0.9742 | 10.716 |
| .6 | 0803  | T-3          | 11.000  | 6 1.0196 | 11.216 | 60901  | SAHWAL-O T-1 | 111.000 | 6 | 1.0215 | 11.237 |
| 6  | 50902 | SAHWAL-O T-2 | 11.000  | 6 0.9999 | 10.998 | 60903  | SAHWAL-O T-  | 311.000 | 6 | 1.0214 | 11.236 |
| 6  | 0951  | SWL III T-1  | 11.000  | 6 1.0196 | 11.216 | 60952  | SWL III T-2  | 11.000  | 6 | 0.9897 | 10.887 |
| 6  | 50953 | т-3          | 11.000  | 6 1.0115 | 11,126 | 61001  | NOORPUR T-1  | 11.000  | 6 | 1.0084 | 11.093 |
| 6  | 51002 | NOORPUR T-2  | 11.000  | 6 0.9969 | 10.965 | 61004  | т-3          | 11.000  | 6 | 0.9866 | 10.853 |
| 6  | 51011 | Т-1          | 11.000  | 6 0.9913 | 10.905 | 61012  | т-2          | 11.000  | 6 | 0.9900 | 10.890 |
| 6  | 51201 | PAKPATAN T-1 | 11.000  | 6 0.9770 | 10.747 | 61202  | ΡΑΚΡΑΤΑΝ Τ-2 | 211.000 | 6 | 0.9770 | 10.747 |
| 6  | 1203  | PAKPATAN T-3 | 11.000  | 6 0.9710 | 10.681 | 61301  | HARAPPA T-1  | 11.000  | 6 | 0.9697 | 10.667 |
| 6  | 1302  | HARAPPA T-2  | 11.000  | 6 1.0148 | 11.163 | 61401  | CHCHWTNI T-1 | 1       | 6 | 1.0185 |        |
| 6  | 1402  | CHCHWTNI T-2 | 11.000  | 6 1.0258 | 11.284 | 61403  | CHCHWTNI T-3 | 311.000 | 6 | 1.0135 | 11.149 |
| 6  | 1491  | T-1          | 11.000  | 6 0.9944 | 10.938 | 61501  | SH.FAZAL T-1 | 111.000 | 6 | 1.0285 | 11.314 |
| 6  | 51502 | SH.FAZAL T-2 | 11.000  | 6 1.0285 | 11.314 | 61503  | т-3          | 11.000  | 6 | 1.0443 | 11.487 |
| 6  | 1601  | BUREWALA T-1 | .11.000 | 6 1.0491 | 11.540 | 61602  | BUREWALA T-2 | 211.000 | 6 | 1.0201 | 11.221 |
| 6  | 1603  | BUREWALA T-3 | 11.000  | 6 0.9847 | 10.832 | 61621  | BREWLA-O T-1 | 111.000 | 6 | 1.0058 | 11.064 |
|    |       |              |         |          |        |        |              |         |   |        |        |

|     |       |                                         |          | 20      | )23-1                      | VITH.t | xt .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |         |            |
|-----|-------|-----------------------------------------|----------|---------|----------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|------------|
|     | 61622 | BREWLA-0 T-211.000                      | 6 1.0248 | 11.273  |                            | 61623  | т-3 11.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 00 6         | 1.0097  | 11,107     |
|     | 61631 | GAGOO T-1 11.000                        | 6 0.9628 | 10.591  |                            | 61632  | GAGOO T-2 11.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 00 6         | 0.9694  | 10.663     |
|     | 61701 | VEHARI-0 T-111.000                      | 6 1.0052 | 11.057  | 1997 - 1997<br>1997 - 1997 | 61702  | VEHARI-O T-211.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 00 6         | 1.0372  | 11,409     |
|     | 61703 | VEHARI-T-3 11.000                       | 6 1.0129 | 11.142  |                            | 61751  | LUDDEN T-1 11.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 00 <u>6</u>  | 0.9651  | 10.616     |
|     | 61752 | LUDDEN T-2 11.000                       | 6 0,9651 | 10.616  |                            | 61781  | KARAMPUR T-111.C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ñ ñ          | 1.0199  | 11 218     |
|     | 61782 | KARAMPUR T-211.000                      | 6 1.0311 | 11.342  |                            | 61791  | T1 11.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | non e        | 0 9835  | 10 818     |
|     | 61792 | T2 11.000                               | 6 0.9835 | 10.818  |                            | 61801  | $\Delta RTEWALA T=311$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 00 6         | 1 0373  | 11 /11     |
| • * | 61802 | ARTEWALA T-211.000                      | 6 1 0373 | 11 411  |                            | 61803  | $\Delta RTEWALA T = 111 0$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 00 6         | 0 9946  | $10 \ 0/1$ |
|     | 61811 | T-1 11 000                              | 6 0 9709 | 10 680  |                            | 61812  | $T_{-2}$ 11 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | 0.03040 | 10.541     |
| •.  | 61821 | KAMTRW T-1 11 000                       | 6 0 9818 | 10 800  |                            | 61822  | $\frac{1}{1} \frac{2}{11} = \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} \frac{1}{11} $ |              | 0.9709  | 10,000     |
|     | 61901 | RWI NAGR T = 111 000                    | 6 0 9837 | 10 821  |                            | 61002  | $T_{-3}$ 11 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | 0.9010  | 10.600     |
|     | 61903 | BWI NACE $T_311,000$                    | 6 0 0837 | 10.021  |                            | 61011  | 1 - 3 $1 - 3$ $1 - 3$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 00 0         | 0.9080  | 10.040     |
|     | 61912 | $HOTA T_{-2} = 11 000$                  | 6 1 0169 | 11 186  | · •                        | 62001  | $\begin{array}{cccc} HOTA & T^{-1} & II_{*} O \\ OAPULA & T & I & II & O \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 00 6         | 1 0080  | 11 000     |
|     | 62002 | OABULA T = 2 11,000                     | 6 1 0200 | 11 730  |                            | 62001  | QABULA T = 11.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 00 0         | 1 0009  | 11.090     |
|     | 62101 | SAHUKA T = 1 11 000                     | 6 1 0122 | 11 134  | e a la com                 | 62102  | QABULA T = 11.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 00 6         | 1.0022  | 11.024     |
|     | 62202 | $HASTI DUD T_211 000$                   | 6 0 0081 | 10 070  |                            | 62202  | JACTURA 1-2 11.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 00 6         | 1.0334  | 11.308     |
|     | 62202 | $T_{-4}$ 11 000                         | 6 0 0700 | 10, 575 |                            | 62211  | HASILPUR 1-511.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 00 6         | 1.0015  | 11.010     |
| \$  | 62204 | $\Gamma^{-4}$ 11.000                    | 6 0 0886 | 10.776  |                            | 62202  | CHUNAW $I = I  II.U$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 6         | 1.0039  | 11.043     |
|     | 62303 | CHISTIAN $T=111,000$                    | 6 1 0000 | 11 100  |                            | 62202  | CHISILAN $1-211.0$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 00 6         |         | 11.189     |
|     | 62303 | D = D = D = A = A = A = A = A = A = A = | 6 1 0075 | 11 002  |                            | 67201  | T 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 00 6         | 1.0075  | 11.083     |
|     | 62301 | $T_1$ 11 000                            | 6 0 0057 | 10 052  |                            | 62201  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 00 6         | 0.9891  | 10.880     |
|     | 62501 | MAN = KOT T = 1 11 000                  | 6 0 9975 | 10.933  |                            | 62502  | $\begin{array}{cccc} 1 = 2 \\ 1 = 2 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = 0 \\ 1 = $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 00 6         | 0.9957  | 10.953     |
|     | 64191 | $1 \text{ SOHAN } T_1 11 000$           | 6 0 07/0 | 10.373  |                            | 64211  | MAN-RUI $I-2$ 11.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 00 6         | 0.9975  | 10.973     |
|     | 64212 | K P T M T T - 211 000                   | 6 0 9811 | 10.724  |                            | 64621  | NOOPSAR T 1 11 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 00 6         | 0.9855  | 10.838     |
|     | 64622 | NOOPSAR $T_2$ 11 000                    | 6 1 0357 | 11 302  |                            | 6/821  | MNCUNDAD T1 11 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 00 6         | 0.9993  | 11 101     |
|     | 64822 | $T_{-2}$ 11 000                         | 6 1 0008 | 11 107  |                            | 6/221  | $\frac{1}{1}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 00 6         | 1.0092  |            |
|     | 64882 | $T_{-2}$ 11 000                         | 6 0 9686 | 10 654  |                            | 64801  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 00 6         | 0.9961  | 10.957     |
|     | 64892 | $T_{-2}$ 11 000                         | 6 0 97/2 | 10.034  |                            | 64011  | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 6         | 1.0200  | 11,295     |
| •   | 64912 | MCLD GNG $T=2$                          | 6 1 0124 | 10:111  |                            | 65012  | $\frac{MCLD}{HARONARD} = 211 O$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 00 b         | 1.0107  | 11.203     |
|     | 65013 | HARONARD $T = 111 000$                  | 6 1 0127 | 11 135  |                            | 65011  | HARONARD T 211 O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              | 1.0122  | 11, 121    |
|     | 65121 | FAOTRWLT-T1 11 000                      | 6 1 0347 | 11 382  |                            | 65122  | EACT DIAL T_T2 11 O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              | 1 0247  | 11 202     |
|     | 65191 | T-1 11 000                              | 6 1 0337 | 11 371  | · · .                      | 65102  | $T_2$ 11 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              | 1.0227  | 11 271     |
|     | 65211 | FORTARAS-T1                             | 6 1 0314 |         |                            | 65212  | $FOPTAPAST_2 11 0$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 00 0         | 1 0266  | 11 202     |
| •-  | 70001 | MTANCHNU T1 11 000                      | 6 1 0569 | 11 626  |                            | 70002  | MTANCHNU $T_211$ (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 00 0         | 1 0200  | 11 474     |
|     | 70003 | MTANCHNU $T = 311 000$                  | 6 1 0262 | 11 288  |                            | 70011  | CHAK = 83 = T1 11 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 00 0<br>00 6 | 1 0222  | 11 755     |
|     | 70012 | CHAK - 83 - T2 = 11,000                 | 6 1 0232 | 11 255  |                            | 70061  | $H STDNAT T_111 ()$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 00 0<br>00 6 |         | 10 002     |
|     | 70062 | H STDNAT $T - 211 000$                  | 6 1 0215 | 11 236  |                            | 70101  | KACHAKHII $T_111$ A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 00 0         | 0.9992  | 10.992     |
|     | 70102 | KACHAKHU T - 211,000                    | 6 0 9934 | 10 927  |                            | 70103  | KACHAKHU $T=311$ 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 00 0<br>00 6 | 1 0007  | 11 008     |
|     | 70201 | KHANEWAL T-111.000                      | 6 1 0094 | 11 104  |                            | 70202  | KHANEWAL $T = 211$ O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 0<br>00 6 | 1 0032  | 11 036     |
|     | 70203 | KHANEWAL T-311.000                      | 6 1.0035 | 11.038  |                            | 70301  | KARTRWIA $T = 111$ A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 6         | 1 0127  | 11 1/0     |
|     | 70302 | KABTRWLA $T - 211,000$                  | 6 1.0352 | 11.387  |                            | 70303  | KABIRWIA T-311 $\cap$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 00 6         | 0 9826  | 10 808     |
|     | 70321 | MP PAHOR T-111.000                      | 6 0.9885 | 10.873  |                            | 70322  | MP PAHOR $T = 211$ 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 00 6         | 0 9573  | 10 531     |
|     | 70401 | GARHMORE T-111.000                      | 6 1.0024 | 11.026  |                            | 70402  | GARHMORE T-211.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 00 6         | 1.0144  | 11.158     |
|     |       |                                         |          |         |                            |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ~~ ~         |         |            |

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| 그는 가장 관련되었다. 이 것 같은 것 같아요.                    | 2023-                                                | WTTH txt                                        |                              |
|-----------------------------------------------|------------------------------------------------------|-------------------------------------------------|------------------------------|
| 70421 B-BANCLA T-111 000                      | 6 1 0011 11 012                                      | 70501 TEHANTAN T-111 000                        | 6 1 0014 11 015              |
| 70502 JEMANTAN T-211 000                      | 6 1 0206 11 326                                      | 70502 JEHANTAN T-311 000                        | 6 0 9977 10 975              |
| 70502 JEHANIAN T-211.000                      | $6 \ 1 \ 0159 \ 11 \ 172$                            | 70602  CHARTAR  1000                            | 6 1, 0135 11 148             |
| $70001$ CHAK 211 $1^{-111}000$                | C = 1  0  0  1  0  0  0  0  0  0                     | 70002 CHAR 211 $1-211,000$                      | 6 1 0260 11 286              |
| 70005 CHAK ZII 1-511.000                      | 0 1.0200 11.295                                      | 70701 MAILSI 1-1 11.000                         | $0 \pm 0200 \pm 200$         |
| 70702 MAILSI 1-2 11.000                       | 6 1.0260 11.286                                      | 70703 MAILSI 1-3 11.000                         | $6 \pm .0212 \pm .234$       |
| 70751 MUKHDM.R 1-111.000                      | 6 0.9883 10.872                                      | 70752 MUKHDM.R 1-211.000                        | 6 0.9736 10.710              |
| 71101 BASTIMLK T-111.000                      | 6 1.0065 11.072                                      | /1102 BASTIMLK T-211.000                        | 6 1.0046 11.051              |
| 71103 BASTIMLK T-311.000                      | 6 1.0046 11.051                                      | 71111 Т-1 11.000                                | 6 0.9852 10.837              |
| 71112 T-2 11.000                              | 6 0.9810 10.791                                      | 71151 MIRAN P T-1 11.000                        | 6 1.0058 11.063              |
| 71152 MIRAN P T-2 11.000                      | 6 1.0058 11.063                                      | 71201 LODHRAN T-1 11.000                        | 6 1.0397 11.437              |
| 71202 LODHRAN T-2 11.000                      | 6 1.0397 11.437                                      | 71203 LODHRAN T-3 11.000                        | 6 1.0446 11.491              |
| 71251 LART-1 11.000                           | 6 0.9882 10.871                                      | 71252 LAR T-2 11.000                            | 6 0.9882 10.871              |
| 71301 BU.JADID T-111.000                      | 6 1.0155 11.171                                      | 71302 BU.JADID T-211.000                        | 6 0.9780 10.758              |
| 71401 BHAWALPR T-111.000                      | 6 1.0286 11.315                                      | 71402 BHAWALPR T-211.000                        | 6 1.0268 11.295              |
| 71403 BHAWALPR T-311.000                      | 6 1.0156 11.172                                      | 71405 BWP 66.000                                | 6 1.0196 67.292              |
| 71411 Т-1 11.000                              | 6 1.0044 11.049                                      | 71412 Т-2 11.000                                | 6 1.0044 11.049              |
| 71451 BP CANTT T-111.000                      | 6 1.0203 11.223                                      | 71452 BPCANTT T-2 11.000                        | 6 1.0203 11.223              |
| 71453 т-3 11.000                              | 6 1.0261 11.288                                      | 71471 KARORPCA T-111.000                        | 6 0.9992 10.991              |
| 71472 KARORPCA T-211.000                      | 6 1.0254 11.279                                      | 71473 KARORPCA T-311,000                        | 6 0.9981 10.979              |
| 71491 DUNYAPUR T-311.000                      | 6 1.0163 11.179                                      | 71492 DUNYAPUR T-411.000                        | 6 1.0163 11.179              |
| 71501 SAMASATA T-111.000                      | 6 0.9651 10.616                                      | 71502 SAMASATA T-211.000                        | 6 0.9651 10.616              |
| 71531 T-1 11.000                              | 6 0.9504 10.455                                      | 71532 T-2 11.000                                | 6 0.9438 10.382              |
| 71591 MUB-PUB-T1 11.000                       | 6 0.9694 10.664                                      | 71592 MUB-PUR-T2 11.000                         | 6 0.9694 10.664              |
| 71601   TAOATPR T-111 000                     | 6 0.9654 10.619                                      | 71602   TAOATPR T - 211.000                     | 6 0.9654 10.619              |
| 71702 AHMOPR E T-211.000                      | 6 1.0092 11.101                                      | 71703  AHMDPR = T - 311.000                     | 6 0.9982 10.980              |
| 71704  AHMDPR E T4 11 000                     | 6 0 9990 10 989                                      | 71801  FFROZA  T-1 11 000                       | 6 1 0403 11 443              |
| 71802  EFROZA  T-2 11 000                     | 6 1 0442 11 486                                      | 71851 KHANBELA $T = 111 000$                    | 6 0 9767 10 744              |
| 71852 KHANBELA T-2                            | 6 1 0517                                             | $71853 T_3$ 11 000                              | 6 0 9859 10 845              |
| 72001 KHANPUR T-1 11 000                      | 6 1 0270 11 297                                      | 72002 KHANPUR T-2 11 000                        | 6 0 9593 10 553              |
| 72003 KHANPUR T-3 11 000                      | 6 0 9740 10 714                                      | 72101 MWORSHTA T-111 000                        | 6 1 0634 11 697              |
| 72102  MWORSHIA T2 11 000                     | 6 1 0483 11 532                                      | $72103 \text{ T}_{-3}$ 11 000                   | 6 1 0609 11 670              |
| 72111 + 1 11 000                              | 6 1 0118 11 130                                      | 72103 T 3 11.000<br>$72112 T_2 11.000$          | 6 1 0075 11 082              |
| $72201 P \vee KHAN T = 111 000$               | 6 1 0136 11 150                                      | $72202 P \times KHAN T - 211 000$               | 6 0 9768 10 745              |
| 72203 P V KHAN T 311 000                      | 6 1 0188 11 207                                      | 72202 K.T.KIAN T 211.000                        | 6 0 9995 10 995              |
| 72203 R.T. KHAN 1-311.000                     | 6 0 9684 10 652                                      | 72204 1-4 = 11,000<br>72252 P V V HN2 T 211 000 | 6 0 9631 10 594              |
| 72251 K.T. KHNZ 1-111,000<br>72253 T-3 11 000 | $6 \ 1 \ 0058 \ 11 \ 064$                            | 72232 R.F.RHNZ $1-211.000$                      | 6 0.9651 10.194              |
| 72233 T=3 11.000<br>72202 T=2 11.000          | 6 0 0864 10 851                                      | 72291 $1-1$ 11.000<br>72201 SADTOARD T-111 000  | $6 \ 1 \ 0.007 \ 11 \ 0.007$ |
| 72202 CADTOARD T 211 000                      | 6 1 0207 11 227                                      | 72202 CADIQADD $= 211,000$                      | 6 1 0251 11 20C              |
| 7204  LAUDTD 11 000                           | 0 1.020/ 11.22/<br>6 1.0240 11.264                   | 72303 SAULUABU 1~311.000                        | 6 1.0022 TT.300              |
| $72304$ LALPIK $\pm 1.000$                    | U 1.UZ4U 11.Z04<br>6 1 0103 11 113                   | 723L1 WALANA $I=1$ $11.000$                     |                              |
| 72312 WALANA $1-2$ 11.000                     | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 72551 NAWAZ I-1 II.000                          | 0 U.994U LU.934              |
| 72352 NAWAZAB I-2 11.000                      | 0 1.0143 11.138                                      | 72303 1-3 II.000                                | 0 1.01/3 11.192              |
| 72401 J.D.WALL 1-111.000                      | 6 U.9/92 IU.//I                                      | 72402 JDWALL I-2 11.000                         | 0 U.953/ IU.49I              |
| 72403 J D WALI 1-311.000                      | 0 I.UZ43 II.Z08                                      | 72301 MN.KH.KD I-111.000                        | 0 T.00AT TT.100              |

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| 11                   |       |                                   | 2023-                                        | WITH.txt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |
|----------------------|-------|-----------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                      | 72502 | MN KH_RD T-211.000                | 6 1.0046 11.051                              | 72503 MN.KH.RD T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0091 11.100          |
|                      | 72551 | WAP TO T-1 11.000                 | 6 1.0287 11.315                              | 72552 WAPDA TO T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0023 11.026          |
|                      | 72554 | $T_{-3}$ 11 000                   | 6 0.9950 10.945                              | 72601 MN BS RD T-111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1 0272 11 299          |
|                      | 72602 | MN BS RD T-211 000                | 6 0 9930 10 923                              | 72603 MN BS BD T-311 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1 0272 11 299          |
|                      | 72604 | $T_{-4}$ 11 000                   | 6 0 9923 10 915                              | 72611 PNTR HSC T-111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1 0094 11 103          |
|                      | 72607 | $P_{\rm N} = 11.000$              | 6 1 0094 11 103                              | 72621 RICH VIS T-111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1 0009 11 009          |
|                      | 77651 | PNJB NJG P-211.000                | 6 0 9804 10 784                              | $72652$ 0 PACH T_2 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 0 968 10 854           |
|                      | 72031 | Q BAGH I = 1 11.000<br>T 1 11 000 | 6 0.9856 10.842                              | 72602 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + 2000 + | 0 0.9000 10.004          |
|                      | 72091 | $1^{-1} \qquad 11.000$            | $6 0.3030 \pm 0.042$                         | $72032^{\circ}1^{-2}$ 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0 0.9000 10.042          |
|                      | 72701 | MLN = IND I = I II.000            | $0 \pm 0249 \pm 274$<br>$6 \pm 0124 \pm 127$ | 72702 MLN-IND I-2 IL 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9007 10.907          |
|                      | 72705 | MLN - IND I = 5 II.000            | 0 1.0124 11.137<br>6 1 0161 11 177           | 72731 SUKJ MINI 1-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | $0 \pm 0295 \pm 522$     |
|                      | 72002 | SURJ MINI $1-211.000$             | 0 1.0101 11.177<br>0 1 0520 11 592           | 72801 MN.VR.RD 1~111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0 1.0241 11.205          |
|                      | 72802 | MN.VR.RD 1-211.000                | 6 1.0350 11.365<br>C 0.0005 10.004           | 72803 MN.VR.RD 1~311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0306 II.337          |
|                      | 72004 | 1-4 11.000                        | 0 0.9995 10.994                              | 72851 QASIMPUR T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $6 \pm 0.0337 \pm 1.371$ |
|                      | 72052 | QASIMPUR 1-211.000                | 0 1.0251 11.270                              | 72853 QASIMPUR 1-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0444 11.488          |
|                      | 72854 | 1-4 11.000                        | 6 0.9935 10.929                              | 72871 M.J KD I-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 0.961/ 10.5/9          |
|                      | 12812 | M.J.RD 1-2 11.000                 | 6 0.9617 10.579                              | 72881 SHUJABAD 1-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0233 11.256          |
|                      | /2882 | SHUJABAD 1-211.000                | 6 1.0236 11.260                              | 72883 SHUJABAD T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9970 10.968          |
| 44                   | /2891 | J.P.W T-1 11.000                  | 6 1.0360 LL.396                              | 72892 J.P.W T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 1.0352 11.388          |
|                      | 72893 | J.P.W T-3 11.000                  | 6 1.0412 11.453                              | 72901 MESCO T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 1.0045 11.050          |
|                      | 72902 | MESCO T-2 11.000                  | 6 1.0529 11.581                              | 72903 MESCO T-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 1.0239 11.262          |
|                      | 73111 | T-1 11.000                        | 6 1.0131 11.145                              | /3112 T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0131 11.145          |
|                      | 73201 | GUJRAT.S T1 11.000                | 6 1.0236 11.259                              | 73202 GUJRAT.S T3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0290 11.319          |
|                      | 73203 | GUJRAT.S T2 11.000                | 6 1.0227 11.250                              | 73251 LAYYAH T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 1.0218 11.240          |
|                      | 73252 | LAYYAH T-2 11.000                 | 6 1.0218 11.240                              | 73253 LAYYAH T-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 1.0228 11.251          |
| 26                   | 73281 | KBGASHER T-111.000                | 6 1.0133 11.147                              | 73282 KBGASHER T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0146 11.160          |
|                      | 73301 | MZFRGARH T-111.000                | 6 0.9882 10.870                              | 73302 MZFRGARH T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9874 10.861          |
| $\lambda^{i}$        | 73303 | MZFRGARH T-311.000                | 6 0.9882 10.870                              | 73312 KOTADU-O T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0420 11.462          |
| 19 <sup>58</sup> - 1 | 73313 | KOTADU-O T-311.000                | 6 1.0368 11.405                              | 73314 KOTADU-O T-411.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0288 11.317          |
|                      | 73321 | N.A.WALI T-211.000                | 6 1.0181 11.199                              | 73322 N.A.WALI T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0231 11.255          |
|                      | 73331 | s s din t1 11.000                 | 6 1.0126 11.138                              | 73332 S S DIN T2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 0.9935 10.928          |
| t.                   | 73351 | KOTSULTAN-T111.000                | 6 1.0205 11.225                              | 73352 KOTSULTAN-T211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0342 11.377          |
| $\frac{1}{2}$        | 73361 | KAROR L.E-T111.000                | 6 0.9876 10.863                              | 73362 KAROR L.E-T2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 0.9876                 |
|                      | 73401 | MEHRKHAS T-111.000                | 6 1.0276 11.304                              | 73402 MEHRKHAS T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0276 11.304          |
|                      | 73403 | MEHRKHAS T-3                      | 6 0.9834                                     | 73501 DMR WALA T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0154 11.169          |
|                      | 73502 | DMR WALA T-211.000                | 6 0.9477 10.425                              | 73601 JATOIJNB T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0228 11.251          |
|                      | 73602 | JATOIJNB T-211.000                | 6 1.0122 11.134                              | 73603 T-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0127 11.139          |
|                      | 73701 | KHRPRSDT T-111.000                | 6 0.9856 10.841                              | 73702 KHPRSDT T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9891 10.880          |
|                      | 73951 | SHA.LND T-1 11.000                | 6 1.0096 11.106                              | 73952 SHA LND T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9838 10.821          |
|                      | 74001 | TAUNSA T-1 11.000                 | 6 0.9845 10.829                              | 74002 TAUNSA T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 0.9845 10.829          |
|                      | 74003 | т-3 11.000                        | 6 1.0110 11.121                              | 74111 Т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9694 10.664          |
|                      | 74121 | T-1 11.000                        | 6 1.0079 11.086                              | 74131 Т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0079 11.087          |
|                      | 74141 | т-1 11.000                        | 6 1.0158 11.173                              | 74161 т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0112 11.123          |
|                      | 74401 | CHOKMNDA T-111.000                | 6 1.0238 11.262                              | 74402 CHOKMNDA T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0183 11.201          |

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|---|-------|--------------------|----------|--------|---------|----------|------------|------------|---|--------|--------|
|   | 74502 | CHAUBARA T-211.000 | 6        | 1.0192 | 11.212  | 7456     | 2 CHOKAZAM | T1 11.000  | 6 | 1.0287 | 11.315 |
|   | /4563 | T-3 11.000         | : 6.     | 1.0057 | 11.063  | 7459     | L KHANGARH | T-111.000  | 6 | 0.9653 | 10.619 |
| • | 74592 | KHANGARH T-211.000 | 6 1      | 0.9699 | 10.668  | 7460     | 2 D.G.KHAN | T-211.000  | 6 | 1.0158 | 11.173 |
|   | 74603 | D.G.KHAN T-311.000 | - 6      | 1.0186 | 11.204  | 7460     | 4 D.G.KHAN | т-411.000  | 6 | 1.0057 | 11.062 |
|   | 74641 | т-1 11.000         | 6        | 0.9925 | 10.917  | 7465     | 1 КОТСНИТА | T-111.000  | 6 | 0.9901 | 10.891 |
|   | 74652 | KOTCHUTA T-211.000 | 6        | 0.9901 | 10.891  | 7465     | 3 KOTCHUTT | А Т311.000 | 6 | 0.9945 | 10.940 |
|   | 74691 | СНОТІ Т-1 11.000   | 6        | 0.9973 | 10.971  | 7470     | 1 ROJHAN T | -1 11.000  | 6 | 1.0017 | 11.018 |
|   | 74731 | т-1 11.000         | 6        | 0.9941 | 10.935  | 7590     | 1 SKHISRWR | T-111.000  | 6 | 0.9942 | 10.936 |
|   | 75902 | SKISRWR T-2 11.000 | 6        | 0.9801 | 10.781  | 7781     | 1 YAZMAN-T | -1 11.000  | 6 | 0.9936 | 10.930 |
|   | 77812 | YAZMAN T-2 11.000  | 6        | 0.9936 | 10.930  | 7791     | 1 MAROOT T | 1 11.000   | 6 | 1.0465 | 11.511 |
|   | 77912 | MAROOT T-2 11.000  | 6        | 1.0359 | 11.395  | 7831     | 1 FATEHPUR | т-111.000  | 6 | 0,9883 | 10.872 |
|   | 78312 | FATEPUR T-2 11.000 | 6        | 1.0025 | 11.028  | 7831     | 3 т-3      | 11.000     | 6 | 1.0321 | 11.353 |
|   | 78401 | т1 11.000          | 6        | 0.9978 | 10.976  | 7890     | 1 NAWANKOT | т-111.000  | 6 | 1.0109 | 11.120 |
|   | 79091 | D.G.K.II T-111.000 | 6        | 1.0308 | 11.339  | 7909     | 2 D.G.K.II | T-211.000  | 6 | 1.0184 | 11.202 |
|   | 79301 | JAMPUR T-1 11.000  | 6        | 0.9855 | 10.840  | 7930     | 2 JAMPUR T | -2 11.000  | 6 | 1.0071 | 11.078 |
|   | 79331 | FAZALPUR T-111.000 | 6        | 1.0087 | 11.096  | 7933     | 2 FAZALPUR | T-211.000  | 6 | 0.9990 | 10.989 |
|   | 79511 | RAJANPUR T-111.000 | 6        | 1.0196 | 11.216  | 7951     | 2 RAJANPUR | т-211.000  | 6 | 1.0196 | 11.216 |
|   | 79513 | RAJANPUR T-3       | 6        | 0.9995 |         | 7974     | 1 UCH.SHRF | T-211.000  | 6 | 1.0059 | 11.065 |
|   | 79742 | UCH.SHRF T-311.000 | 6        | 0.9840 | 10.824  | 7974     | 3 UCH.SHRF | т-111.000  | 6 | 1.0117 | 11.129 |
|   | 79811 | ALI PUR T-1 11.000 | 6        | 0.9930 | 10.923  | 7981     | 2 ALIPUR T | -2 11.000  | 6 | 1.0046 | 11.050 |
|   | 79813 | ALIPUR T-3 11.000  | 6        | 0.9859 | 10.845  | 7982     | 1 T-1      | 11.000     | 6 | 0.9755 | 10.731 |
|   | 79822 | T-2 11.000         | 6        | 0.9755 | 10,731  | 7984     | 1 H.R. KAN | T1 11.000  | 6 | 1.0339 | 11.373 |
|   | 79842 | т-2 11.000         | 6        | 1.0025 | 11.028  | 7990     | 4 T-4      | 11.000     | 6 | 0.9833 | 10.816 |
|   | 79961 | FRT MNRO T-111.000 | ē.       | 1.0128 | 11.140  | 7996     | 2 T-2      | 11.000     | 6 | 1.0125 | 11.138 |
| 7 | 32512 | LSM-132KV 132.00   | <u> </u> | 1.0247 | 1.35.26 |          |            |            | • |        |        |
|   | . –   |                    | •        |        |         |          |            |            |   |        |        |

## 2024-WITHOUT.txt

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS(R)E TUE, JAN 26 2021 11:46 MEPCO-2024-REVISED-DIIP-WITHOUT

BUSES WITH VOLTAGE GREATER THAN 2.0000:

BUS# X-- NAME --X BASKV AREA V(PU) V(KV) BUS# X-- NAME --X BASKV AREA V(PU) V(KV)

\* NONE \*

BUSES WITH VOLTAGE LESS THAN 1,7000:

| BUS# | X NAME>     | K BASKV | AREA | V(PU)  | V(KV)   | BUS#     | X NAME      | X BASKV | AREA | V(PU)  | V(KV)  |  |
|------|-------------|---------|------|--------|---------|----------|-------------|---------|------|--------|--------|--|
| 401  | т-3         | 11.000  | 6    | 0.9860 | 10.846  | 502      | т-3         | 11.000  | 6    | 0.9921 | 10.913 |  |
| 529  | PARCO       | 220.00  | 6    | 1.0386 | 228.50  | 5282     | FATMA ENERG | Y132.00 | 6    | 1.0200 | 134.64 |  |
| 5283 | FAZAL CLOTH | 132.00  | 6    | 1.0193 | 134.55  | 6030     | QADIRABD    | 132.00  | 6    | 1.0267 | 135.52 |  |
| 6050 | BNGAHYAT    | 132.00  | 6    | 1.0082 | 133.09  | 6070     | YOUSFWLA    | 132.00  | 6    | 1.0199 | 134.63 |  |
| 6080 | SAHIWALN    | 132.00  | 6    | 1.0120 | 133.59  | <br>6090 | SAHIWAL-O   | 132.00  | 6    | 1.0115 | 133.52 |  |
| 6095 | SAHIWAL III | 132.00  | 6    | 1.0086 | 133.14  | <br>6100 | NOORPUR     | 132.00  | 6    | 1.0049 | 132.65 |  |
| 6101 | PAKPATTAN-2 | 132.00  | 6    | 0.9991 | 131.88  | 6120     | ΡΑΚΡΑΤΑΝ    | 132.00  | 6    | 0.9826 | 129.70 |  |
| 6130 | HARAPPA     | 132.00  | 6    | 0.9944 | 131.26  | 6140     | CHCHWTNI    | 132.00  | 6    | 0.9982 | 131.76 |  |
| 6149 | KASOWAL132  | 132.00  | 6    | 0.9950 | 131.34  | 6150     | SH.FAZAL    | 132.00  | - 6  | 0.9694 | 127.96 |  |
| 6160 | BUREWALA    | 132.00  | 6    | 0.9559 | 126.18  | 6162     | BREWLA-O    | 132.00  | 6    | 0.9483 | 125.17 |  |
| 6163 | GAG00       | 132.00  | 6    | 0.9479 | 125.13  | 6169     | VEHARI-N    | 132.00  | 6    | 0,9933 | 131.11 |  |
| 6170 | VEHARI-0    | 132.00  | 6    | 0.9896 | 130.62  | 6175     | LUDDEN      | 132.00  | 6    | 0.9688 | 127.89 |  |
| 6178 | KARAMPUR    | 132.00  | 6    | 0.9569 | 126.31  | 6179     | MACHIWAL    | 132.00  | 6    | 0.9687 | 127.87 |  |
| 6180 | ARIFWALA    | 132.00  | 6    | 0.9564 | 126.24  | 6181     | ARIFWALA-2  | 132.00  | 6    | 0.9562 | 126.22 |  |
| 6182 | KAMIRWALA   | 132.00  | 6    | 0.9745 | 128.64  | 6190     | BWL.NAGR    | 132.00  | 6    | 0.9592 | 126.61 |  |
| 6191 | HOTA        | 132.00  | 6    | 0.9493 | 125.31  | 6200     | QABULA      | 132.00  | 6    | 0.9473 | 125.04 |  |
| 6210 | SAHUKA      | 132.00  | 6    | 0.9533 | 125.84  | 6220     | HASILPUR    | 132.00  | 6    | 0.9702 | 128.07 |  |
| 6221 | CHUNAWALA   | 132.00  | 6    | 0.9686 | 127.85  | 6230     | CHISTIAN-0  | 132.00  | 6    | 0.9762 | 128.86 |  |
| 6231 | CHSTAN-N    | 132.00  | 6    | 0.9825 | 129.69  | 6232     | DHARWALA132 | 132.00  | 6    | 0.9691 | 127.92 |  |
| 6238 | BUKHSHAN 13 | 2132.00 | 6    | 0.9793 | 129.27  | 6239     | CHISTIAN 13 | 2132.00 | 6    | 0.9808 | 129.46 |  |
| 6250 | MAN-KOT     | 132.00  | 6    | 0.9962 | 131.49  | 6410     | HASILPUR    | 66.000  | 6    | 0.9702 | 64.035 |  |
| 6419 | L.SOHANRA   | 132.00  | 6    | 0.9837 | 129.85  | 6420     | BEST-GREEN  | 132.00  | 6    | 1.0116 | 133.54 |  |
| 6421 | K.P.TOMI    | 132.00  | 6    | 0.9727 | 128.39  | 6422     | APPOLO-SOLA | R132.00 | 6    | 1.0100 | 133.32 |  |
| 6462 | NOORSAR     | 132.00  | 6    | 0.9730 | 128.43  | 6482     | MNCHNBAD    | 132.00  | 6    | 0.9462 | 124.89 |  |
| 6488 | BWL NAGAR-2 | 132.00  | 6    | 0.9680 | 127.77  | 6489     | DONGA BNGA  | 132.00  | 6    | 0.9647 | 127.34 |  |
| 6491 | MCLD.GNJ    | 132.00  | 6    | 0.9420 | 124.34  | 6501     | HARONABD    | 132.00  | 6    | 0.9678 | 127.74 |  |
| 6512 | FAQIRWLI    | 132.00  | 6    | 0.9668 | 1.27.61 | 6519     | KHICHIWALA  | 132.00  | 6    | 0.9648 | 127.35 |  |
| 6521 | FORTABAS    | 132.00  | 6    | 0.9700 | 128.04  | 6666     | MULTAN-N    | 132.00  | . 6  | 1.0136 | 133.79 |  |

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|      |              |         |       |              |       |      | 202      | 4-wit                   | HOUT. | txt                |         |        |        |        |
|------|--------------|---------|-------|--------------|-------|------|----------|-------------------------|-------|--------------------|---------|--------|--------|--------|
| 7000 | MIANCHNU     | 132.00  | . 6   | 5 0.9        | 9768  | 128. | 94       |                         | 7001  | СНАК-83-132        | 132.00  | 6      | 0.9922 | 130.97 |
| 7002 | KASSOWAL     | 132.00  | e e   | 5 1.0        | 0097  | 133. | 28       |                         | 7006  | HEAD STDHNAT       | r132.00 | Ĝ      | 0.9593 | 126.62 |
| 7010 | КАСНАКНИ     | 132.00  | Ê     | 5 0 0        | 9645  | 127  | 31       |                         | 7020  | KHANEWAL           | 132.00  | - Ĕ    | 0 9743 | 128 60 |
| 7029 | FAUIT-K      | 132 00  | Â     |              | 0000  | 172  | ñō       |                         | 7030  | KARTRWIA           | 132 00  | ĥ      | 0 9669 | 127 63 |
| 7032 | MP PAHOR     | 132 00  | Ģ     | 5 0 0        | 9572  | 126  | 35       |                         | 7040  |                    | 132.00  | Ğ      | 0.9681 | 127 79 |
| 7042 | R-RANGLA     | 132 00  | Ģ     |              | 9557  | 126  | 16       |                         | 7050  |                    | 132.00  | 6      | 0.9673 | 127 03 |
| 7060 | CHAK 211     | 132.00  |       |              | 0110. | 120  | 72       |                         | 7070  | MATICT             | 132.00  | 6      | 0.9023 | 125 26 |
| 7075 |              | 132 00  | 6     |              | 0622  | 107  | 15       |                         | 7070  | MAILSI<br>D CATD 1 | 122.00  | 6      | 1:0074 | 122 07 |
| 7100 |              | 132.00  | 6     |              | 0014  | 120  | 11<br>07 |                         | 7110  |                    | 122.00  | 0      | 1.0074 | 172.97 |
| 7105 |              | 122.00  |       |              | 0760  | 170  | 07       |                         | 7115  | BASTIMLK           | 122.00  | 0      | 0.9005 | 127.02 |
| 7120 |              | 122.00  | (     |              | 9700  | 122  | 93       | · · ·                   | 7125  | MIRAN PUR          | 132.00  | 0      | 0.9000 | 127.00 |
| 7120 |              | 132.00  |       | с <u>с</u> ( |       | 134. | 00       |                         | 7120  |                    | 132.00  | 0      | 0.9691 | 127.92 |
| 7120 |              | 132.00  |       | <b>0</b>     | 9950  | 131. | 30       | · · · · ·               | 7140  | BWPN-Z             | 132.00  | 6      | 0.9996 | 131.94 |
| 7111 | B.W.P-N      | 1.72.00 | t t   | ) 1.0        | 030L  | 122  | 98       |                         | 7140  | BHAWALPR           | 132.00  | 6      | 1.0122 | 133.01 |
| 7141 | LUDHRAN-Z    | 132.00  |       | 2 1.0        | 009T  | 133. | Ζ±       |                         | /145  | BPUR CANIT         | 132.00  | -6     | 1.0252 | 135.33 |
| 7140 | CREST-ENERG  | Y132.00 | . t   | 2 1.0        | 0200  | 134. | 64       | 1                       | /14/  | KARORPCA           | 132.00  | 6      | 0.95/1 | 126.34 |
| 7148 | QAD-SOL-1    | 132.00  | . t   | 21.0         | 0189  | 134. | 49       | 54<br>10 - 10 - 10 - 10 | /149  | DUNYAPUR           | 132.00  | 6      | 0.9433 | 124.51 |
| 7150 | SAMASATA     | 132.00  | . 6   | 0.9          | 9903  | 130. | 12       |                         | 7153  | KOT KHALIFA        | 132.00  | 6      | 0.9680 | 127.77 |
| /159 | MUB-PUR      | 132.00  | - 6   | 0.9          | 9799  | 129. | 34       |                         | /160  | LIAQATPR           | 132.00  | 6      | 0.9728 | 128.41 |
| /1/0 | AHMDPR E     | 132.00  | · • • | <b>0</b> .9  | 9749  | 128. | 69       |                         | 7175  | RYK-PP             | 132.00  | 6      | 1.0100 | 133.32 |
| /180 | FEROZA       | 132.00  | 6     | 5 1.0        | 0099  | 133. | 31       |                         | 7185  | KHANBELA           | 132.00  | 6      | 0.9913 | 130.85 |
| /190 | HAMZA-PP     | 132.00  | E     | 5, 1.0       | 0000  | 132. | 00       |                         | 7200  | KHANPUR            | 132.00  | 6      | 1.0042 | 132.55 |
| /210 | MWQRSHIA     | 132.00  | . 6   | 5 1.0        | 0169  | 134. | 23       |                         | 7211  | VEHARI-2           | 132.00  | 6      | 0.9929 | 131.06 |
| 7220 | R.Y.KHAN     | 132.00  | 6     | 5 0.9        | 9952  | 131. | 37       |                         | 7221  | RYK-NEW            | 132.00  | 6      | 1.0230 | 135.04 |
| 7225 | R.Y.KHN2     | 132.00  | 6     | 5 0.9        | 9849  | 130. | 01       |                         | 7229  | RYK-3              | 132.00  | 6      | 0.9979 | 131.73 |
| 7230 | SADIQABD     | 132.00  | 6     | 5.1.0        | 0147  | 133. | 94       |                         | 7231  | SANJARPUR          | 132.00  | 6      | 1.0191 | 134.52 |
| 7232 | JDW II USM F | >132.00 | 6     | 5-1.(        | 0300  | 135. | 96       |                         | 7235  | NAWAZABD           | 132.00  | 6      | 1.0196 | 134.59 |
| 7237 | RIE          | 132.00  | 6     | 5 1.0        | 0116  | 133. | 53       |                         | 7240  | J.D.WALI           | 132.00  | 6      | 1.0013 | 132.17 |
| 7250 | MN.KH.RD     | 132.00  | - 6   | 5.1.0        | 0100  | 133. | 32       |                         | 7255  | WAPDATWN           | 132.00  | 6      | 0.9979 | 131.73 |
| 7260 | MN.BS.RD     | 132.00  | . 6   | 5 0.9        | 9915  | 130. | 88       |                         | 7261  | PUNJAB HOSNO       | 5132.00 | . 6    | 1.0060 | 132,79 |
| 7262 | BUCH VILLAS  | 132.00  | 6     | 5 0.9        | 9895  | 130. | 62       |                         | 7265  | QASIMBGH           | 132.00  | 6      | 0.9949 | 131.32 |
| 7269 | RAWAN ROAD   | 132.00  | . 6   | 5.0.9        | 9990  | 131. | 87       |                         | 7270  | MLN-IND            | 132.00  | 6      | 0.9930 | 131.08 |
| 7272 | COCA COLA    | 132.00  | . 6   | 5.0.9        | 9930  | 131. | 80       |                         | 7273  | SURAJ MIANI        | 132.00  | 6      | 0.9909 | 130.80 |
| 7275 | C.T.MILL     | 132.00  | : 6   | 5 0.9        | 9922  | 130. | 97       |                         | 7277  | APL                | 132.00  | 6      | 0.9757 | 128.80 |
| 7280 | MN.VR.RD     | 132.00  | Ē     | 5 0.9        | 9954  | 131. | 40       |                         | 7285  | OASIMPUR           | 132.00  | Ğ      | 0.9934 | 131.12 |
| 7287 | M.JAILRD     | 132.00  | e     | 5 0.9        | 9873  | 130. | 33       |                         | 7288  | SHUJABAD           | 132.00  | Ğ      | 0.9457 | 124.84 |
| 7289 | JALALPWL     | 132.00  | ē     | 5 0.9        | 9604  | 126. | 77       |                         | 7290  | MESCO              | 132.00  | õ      | 0.9831 | 129 77 |
| 7300 | КАРСО        | 132.00  | i e   | 5 1.0        | 0490  | 138. | 47       | 44 C.                   | 7311  | MZFRGARH-2         | 132.00  | Ğ      | 1.0061 | 132.80 |
| 7320 | GUJRAT.S     | 132.00  | F     | 5-1 (        | 0241  | 135  | 18       |                         | 7325  |                    | 132.00  | ň      | 1.0225 | 134.97 |
| 7328 | KBGASHER     | 132.00  | Ē     | 5 1.0        | 0233  | 135  | 07       | •                       | 7330  | MZERGARH           | 132.00  | ő      | 1.0050 | 132.66 |
| 7331 | KOTADU-0     | 132.00  | Ē     | 5 1 (        | 0472  | 138  | ž7       |                         | 7332  | N.A.WALT           | 132.00  | 6<br>6 | 1.0308 | 136.07 |
| 7333 | S.S.DIN      | 132.00  | Ē     | 5 1 (        | 0073  | 132  | 97       |                         | 7334  | M GARH NEW         | 132.00  | Ř      | 1,0065 | 132 85 |
| 7335 | KOTSUL TAN   | 132 00  | F     | 5 1 0        | 0323  | 136  | 27       |                         | 7336  | KAROR L F          | 132.00  | Ř      | 1.0087 | 133 15 |
| 7337 | EPGL         | 132.00  | F     | 1.0          | 0200  | 134  | 64       |                         | 7339  | DUMMY TND          | 132.00  | ĕ      | 1.0053 | 132 69 |
|      |              |         |       |              | ~~~~  |      | ~ .      |                         |       |                    | ,       |        |        |        |

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|-----|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|---------|--------------------|--------|---------------------------|
|     | 7340  | MEHRKHAS 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0.9644  | 127.30 | 7350    | DMR WALA           | 132.00 | 6 0 9554 126 12           |
|     | 7360  | JATOIJNB 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0.9457  | 124.84 | 7370    | KHRPRSDT           | 132.00 | 6 0 9501 125 42           |
|     | 7395  | SHAD.1ND 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1.0161  | 134.12 | 7400    | ΤΔΙΙΝSΔ            | 132 00 | 6 1 0047 132 63           |
|     | 7411  | MTANCHANU-2 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9741  | 128 58 | 7412    |                    | 132.00 | 6 1 0039 132.52           |
| ÷.  | 7413  | SHAH JAMAL 132 00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 1 0065  | 132 85 | 7/1/    | KOT MITUAN         | 132 00 | 6 1 0166 124 10           |
| , i | 7416  | DRAWAR MORE 132 00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0053  | 132 70 | 7/35    |                    | 122.00 | 0 1.0100 134.19           |
|     | 7/36  | $T_{-}$ $PAPCO = 132.00$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 1 0114  | 132.70 | 7433    |                    | 122.00 | $0 \pm 0115 \pm 55.50$    |
|     | 7410  | $T_{-A}UTM$ 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0205  | 127 22 | 7440    |                    | 132.00 | 0 1.0344 130.33           |
|     | 7442  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1 0393  |        | 7445    |                    | 132.00 | 6 1.0395 137.21           |
|     | 7450  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0 0210  | 120 40 | 7450    | CHUKAZAM           | 132.00 | 6 1.0196 134.58           |
|     | 7439  | KHANGAKH 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0 0.9010  | 129.49 | 7460    | D.G.KHAN           | 132.00 | 6 1.0065 132.85           |
|     | 7462  | MDC-DGK 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 1.0121  | 133.59 | 7463    | CPC-DGK            | 132.00 | 6 1.0072 132.95           |
|     | 7404  | JAMPR 66-132132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0000  | 132.00 | 7465    | КОТСНИТА           | 132.00 | 6 1.0030 132.40           |
|     | 7466  | 1-AIM 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 1.0054  | 132.72 | /46/    | ATM _              | 132.00 | 6 1.0054 132.71           |
|     | 7469  | CHOTI 132 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 1.0079  | 133.05 | 7470    | ROJHAN             | 132.00 | 6 1.0318 136.19           |
|     | 7473  | DAJAL132 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0.9984  | 131.78 | 7477    | ZENFA              | 132.00 | 6 1.0304 136.01           |
|     | 7580  | CMNT.FCT 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1.0108  | 133.43 | 7590    | SKHISRWR           | 132.00 | 6 1.0102 133.34           |
|     | 7650  | L.SUHANRA132132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0220  | 134.90 | 7781    | YAZMAN             | 132.00 | 6 1.0079 133.04           |
|     | 7791  | MAROOT 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 0.9894  | 130.61 | 7800    | KOTADDU (          | 56.000 | 6 1.0422 68.788           |
|     | 7831  | FATEHPUR 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1.0046  | 132.61 | 7840    | RANGPUR 6          | 56.000 | 6 1.0232 67.531           |
|     | 7842  | T-RANGPR 66.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1.0397  | 68.619 | 7880    | CHAUBARA (         | 56.000 | 6 1.0274 67.808           |
|     | 7890  | NAWANKOT 66.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1.0230  | 67.521 | 7891    | T.NWANKOT (        | 56.000 | 6 1.0233 67.536           |
|     | 7909  | D.G.KHAN II 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0043  | 132.57 | 7930    | JAMPUR 1           | 132.00 | 6 1.0019 132.25           |
|     | 7933  | FAZALPUR 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1.0069  | 132.91 | 7951    | RAJANPUR 1         | 132.00 | 6 1.0123 133.63           |
|     | 7959  | INDUS ENERGY132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0200  | 134.64 | 7974    | UCH SHRF 1         | 132.00 | 6 0.9631 127.13           |
|     | 7981  | ALI PUR 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0.9466  | 124.95 | 7982    | JATOI-2            | 132.00 | 6 0.9414 124.26           |
|     | 7984  | HEAD-RJ-KN 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 1.0057  | 132.75 | 7996    | FORT.MINRO         | 132.00 | 6 1.0103 133 36           |
|     | 60301 | QADIRABD T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9988  | 10.987 | 60302   | OADIRABD T-21      | 11.000 | 6 0.9988 10.987           |
|     | 60501 | BNGAHYAT T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9778  | 10.756 | 60502   | BNGAHYAT T-21      | 11.000 | 6 0 9741 10 715           |
|     | 60801 | SAHIWALN T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9642  | 10.607 | 60802   | SAHTWALN T-21      | 11 000 | 6 0 9642 10 607           |
|     | 60803 | т-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0127  | 11.140 | 60901   | SAHWAL-O T-11      | 11.000 | 6 1 0125 11 138           |
|     | 60902 | SAHWAL-0 T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9915  | 10.906 | 60903   | SAHWAL-O T-31      |        | 6 1 0125 11 138           |
|     | 60951 | SWL III T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0100  | 11.110 | 60952   | SWI TTT $T_{-2}$ 1 |        | 6 0 9810 10 791           |
|     | 60953 | T-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0035  | 11.038 | 61001   | NOORPUR $T-1$ 1    | 11 000 | 6 0 9961 10 957           |
|     | 61002 | NOORPUR T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9853  | 10 838 | 61004   | T_3 1              | 11 000 | 6 0 9766 10 742           |
|     | 61011 | T-1 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0 9830  | 10 813 | 61012   | T_7 1              | 11 000 | 6 0 9816 10 797           |
|     | 61201 | PAKPATAN T-111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0 9662  | 10.628 | 61202   |                    | 11 000 | 6 0 9667 10 678           |
| 1.  | 61203 | PAKPATAN T-311 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0 9602  | 10 562 | 61301   | $HADADDA T_1 1$    |        | 6 0.9002 10.028           |
|     | 61302 | HARAPPA $T=2$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 1 0032  | 11 035 | 61401   | $CHCHWTNT T_1$     | LT.000 | $6 \ 1 \ 0.5351 \ 10.330$ |
|     | 61402 | CHCHWTNT T = 211 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 1 0130  | 11 143 | 61/02   |                    | 11 000 | 6 1 0007 11 000           |
|     | 61401 | $T_{-1}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0 9834  | 10 818 | 61501   | CHCHWINT [-3]      |        | 6 1 0002 11 102           |
|     | 61502 | $T_{-1}$ $T_{-211}$ $000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 1 0002  | 11 102 | 61502   | T 2                |        | $0 \pm 0095 \pm 1202$     |
|     | 61601 | $\frac{1}{2} \frac{1}{2} 6 1 0000  | 11 7/0 | 01202   |                    |        | $0 \pm .0230 \pm 10.032$  |
|     | 61602 | DUDEWALA $T = 211 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | 10 570 | 0100Z   | BUKEWALA I-Z       |        | 0 0.9929 10.922           |
|     | 01002 | DUKEWALA I-SII.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.00.9009 | TO'210 | στοςτ   | BREWLA-U I-TT      | LT.UUU | 0 0.9//3 IU./50           |

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|-------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|---------|---------|---------------------------------------------|--------|--------|------------|
|             | 61622 | BREWLA-0 T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0        | .9946  | 10.941  | 61623   | т-3 11.000                                  | 6      | 0.9831 | 10.814     |
|             | 61631 | GAGOO T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 0        | .9427  | 10.369  | 61632   | GAGOO T-2 11.000                            | 6      | 0.9494 | 10.443     |
|             | 61701 | VEHART-0 T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0        | .9869  | 10.856  | 61702   | VEHARI-0 T-211.000                          | - 6    | 1.0185 | 11.203     |
|             | 61703 | VEHART-T-3 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 Õ        | 9945   | 10.940  | 61751   | LUDDEN T-1 11.000                           | ő      | 0.9422 | 10.364     |
| 1           | 61752 | + $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 0        | 9422   | 10 364  | 61781   | KARAMPUR $T = 111 000$                      | Ä      | 0 9978 | 10 976     |
|             | 61782 | KAPAMPUP T=211 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6.1        | 0081   | 11 089  | 61701   | T1 11 000                                   | 6<br>6 | 0 9653 | 10 619     |
|             | 61702 | $T_2 = 11 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0        | 0653   | 10 610  | 61801   | APTEWALA T=311 000                          | 6      | 1 01/0 | $11 \ 154$ |
|             | 61002 | 12 $11.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 1        | . 9033 | 11 154  | 61001   | ARTEWALA T $111000$                         | 6      | 0.0720 | 10 702     |
|             | 01002 | ARIFWALA 1-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0 1        | .0140  | 10 470  | 01003   | AKIFWALA 1-111.000                          | . 0    | 0.9730 | 10.703     |
|             | 01011 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 60         | .9520  | 10.479  | 01012   |                                             | 0      | 0.9526 | 10.479     |
|             | 01021 | KAMIRW 1-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 60         | .9658  | 10.624  | 01022   | KAMIR W 1-2 11.000                          | . 0    | 0.9658 | 10.624     |
|             | 61901 | BWL.NAGR T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6.0        | .9620  | 10.581  | 61902   | T-3 11.000                                  | 6      | 0.9472 | 10.419     |
|             | 61903 | BWL.NAGR T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0        | .9620  | 10.581  | 61911   | HOTA T-1 11.000                             | 6      | 0.9432 | 10.375     |
|             | 61912 | HOTA T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 60         | .9933  | 10.926  | 62001   | QABULA T-1 11.000                           | 6      | 0.9862 | 10.848     |
|             | 62002 | QABULA T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 60         | .9965  | 10.962  | 62003   | QABULA T-3 11.000                           | 6      | 0.9796 | 10.776     |
|             | 62101 | SAHUKA T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 60         | .9861  | 10.847  | 62102   | SAHUKA T-2 11.000                           | 6      | 1.0069 | 11.076     |
|             | 62202 | HASILPUR T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0        | .9823  | 10.805  | 62203   | HASILPUR T-311.000                          | 6      | 0.9856 | 10.842     |
|             | 62204 | т-4 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 0        | .9651  | 10.617  | 62211   | CHUNAW T-1 11.000                           | 6      | 0.9880 | 10.868     |
|             | 62301 | CHISTIAN T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 60         | .9657  | 10.623  | 62302   | CHISTIAN T-211.000                          | 6      | 0.9939 | 10.932     |
|             | 62303 | CHISTIAO T3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0        | .9844  | 10.829  | 62321   | DHRANWALA-T111.000                          | 6      | 0.9836 | 10.820     |
|             | 62322 | DHRANWALA-T211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0        | .9836  | 10.820  | 62381   | т-1 11.000                                  | 6      | 0.9670 | 10.637     |
|             | 62391 | т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.0        | 9752   | 10.727  | 62392   | T-2 11.000                                  | 6      | 0.9752 | 10.727     |
|             | 62501 | MAN-KOT T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0        | .9877  | 10.864  | 62502   | MAN-KOT T-2 11.000                          | Ğ      | 0.9877 | 10.864     |
|             | 64191 | 1 SOHAN T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | . õ õ      | 9622   | 10.584  | 64211   | K. P. TOMT T-111.000                        | õ      | 0.9695 | 10.665     |
|             | 64212 | K P. TOMT T-211 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ้ลั้ด้     | 9670   | 10 637  | 64621   | NOORSAR $T = 1 \cdot 11 \cdot 000$          | Ğ      | 0.9765 | 10 741     |
| , t         | 64622 | NOORSAR $T = 2 11 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1        | 0130   | 11 143  | 64821   | MNCHNBAD T1 11 000                          | Ğ      | 0 9832 | 10 816     |
|             | 64872 | $T_{-2}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ត្រឹ       | 9851   | 10 836  | 64881   | $T_{-1}$ 11 000                             | ĕ      | 0.9729 | 10 702     |
|             | 64882 | $T_{-2}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 0        | 9468   | 10.010  | 64891   | $T_{-1}$ 11 000                             | - 6    | 1 0028 | 11 031     |
|             | 6/802 | $T_{-2}$ 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 60         | 0513   | 10.464  | 6/011   | MCLD CNJ T1 11 000                          | 6      | 0 9929 | 10 022     |
|             | 6/012 | $MCLD CNC T_2$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6.0        | 0868   | 10.404  | 65012   | $HARONARD T_211 000$                        | 6      | 0.02/3 | 10.922     |
|             | 65012 | $\frac{1}{100} \frac{1}{100} \frac{1}$ | 6 0        | 0012   | 10 020  | 65014   | HARONARD $T = 211.000$                      | 6      | 0.9049 | 10.020     |
|             | 65121 | $\begin{array}{c} TARONADD  I^{-1}II \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I \\ I$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 0<br>6 1 | . 9045 | 11 100  | 65122   | $\begin{bmatrix} A K O A B O O O O O O O O$ | 6      | 1 0000 | 10.021     |
|             | 65101 | $\begin{array}{c} FAQIKWEI-II  II  000 \\ T  I  1000 \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | .0039  | 11 006  | 65102   | $T_{2}$ T1 000                              | 6      | 1 0079 | 11 096     |
| j.          | CE211 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0 L        | .00/0  | 11.000  | 00192   | 1-2 11.000                                  | 0      | 1,0076 | 11 007     |
| •           | 70001 | FURTABAS-IL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0 1        | .0051  | 11 100  | 00212   | FURIABASI $= 2 \pm 11,000$                  | 0      | 1.0007 | 11 202     |
|             | 70001 | MIANCHNU II II.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 I        | .0447  | 11.492  | 70002   | MIANCHNU 1-211.000                          | 6      | 1.0256 | 11.282     |
|             | 70003 | MIANCHNU 1-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 61         | .0142  | 11.156  | 70011   | CHAK-83-11 11.000                           | 6      | 1.0104 | 11.114     |
|             | 70012 | CHAK-83-T2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 61         | .0104  | 11.114  | /0061   | H SIDNAI T-111.000                          | 6      | 0.9870 | 10.85/     |
|             | 70062 | H SIDNAL I-ZII.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ρŢ         | *0TT0  | 11.121  | 70101   | KACHAKHU I-III.000                          | 6      | 0.9839 | 10.823     |
|             | 70102 | KACHAKHU T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 60         | .9839  | 10.823  | /0103   | KACHAKHU T-311.000                          | 6      | 0.9919 | 10.911     |
|             | /0201 | KHANEWAL T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 61         | .0020  | 11.023  | 70202   | KHANEWAL T-211.000                          | 6      | 0.9956 | 10.951     |
|             | 70203 | KHANEWAL T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 60         | .9962  | 10.958  | 70301   | KABIRWLA T-111.000                          | 6      | 1.0043 | 11.048     |
|             | 70302 | KABIRWLA T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6'1        | .0268  | 11.295  | 70303   | KABIRWLA T-311.000                          | 6      | 0.9746 | 10.720     |
|             | 70321 | MP PAHOR T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 60         | .9765  | 10.741  | 70322   | MP PAHOR T-211.000                          | 6      | 0.9498 | 10.448     |
|             | 70401 | GARHMORE T-111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 0        | 9816   | 10 798  | 70402   | GARHMORE T-211.000                          | 6      | 0.9946 | 10,941     |

|   |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 202                                     | 4-WITHOUT.txt                                        |                             |
|---|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------|-----------------------------|
|   | 70421  | B-BANGLA T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9925 10.918                         | 70501 JEHANTAN T-111.000                             | 6 0.9839 10.823             |
|   | 70502  | 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 1.0120 11.132                         | 70503 JEHANTAN T-311 000                             | 6 0 9805 10 786             |
|   | 70601  | $CHAK 211 T_{-111} 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 0 9935 10 928                         | 70602  CHAK 211  T - 211 000                         | 6 0 9910 10 901             |
|   | 70602  | CHAR. 211 T 311 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 1 0068 11 075                         | 70701 MATIST T-1 11 000                              | $6 \ 1 \ 0.055 \ 11 \ 0.61$ |
|   | 70003  | CHAR ZII $1-311.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $0 \pm .0000 \pm .073$                  | 70701 MAILSI 1~1 11.000                              |                             |
|   | 70702  | MAILSI 1-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 1.0055 11.001                         | 70703 MAILSI 1-3 11.000                              | 6 0.9996 10.995             |
| • | 70751  | MUKHDM.R I~111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9712 10.684                         | 70752 MUKHDM.R 1-211.000                             | 6 0.9590 10.549             |
|   | 71101  | BASTIMLK T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9935 10.929                         | 71102 BASTIMLK T-211.000                             | 6 0.991/ 10.909             |
|   | 71103  | BASTIMLK T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9917 10.909                         | 71111 T-1 11.000                                     | 6 0.9798 10.778             |
|   | 71112  | т-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9756 10.732                         | 71151 MIRAN P T-1 11.000                             | 6 0.9907 10.898             |
|   | 71152  | MIRAN P T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9907 10.898                         | 71201 LODHRAN T-1 11.000                             | 6 1.0292 11.321             |
|   | 71202  | LODHRAN T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0292 11.321                         | 71203 LODHRAN T-3 11.000                             | 6 1.0346 11.381             |
|   | 71251  | LART-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 0,9735 10.708                         | 71252 LAR T-2 11.000                                 | 6 0.9735 10.708             |
|   | 71301  | BU.JADID T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0060 11.066                         | 71302 BU.JADID T-211.000                             | 6 0.9676 10.644             |
|   | 71401  | BHAWAL PR T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 1.0190 11.209                         | 71402 BHAWALPR T-211.000                             | 6 1.0171 11.189             |
|   | 71403  | BHAWALPR T = 311,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 1.0063 11.069                         | 71405 BWP 66,000                                     | 6 1.0122 66.807             |
|   | 71411  | $T_{-1}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0 9967 10 964                         | 71412  T-2 11 000                                    | 6 0 9967 10 964             |
|   | 71451  | BP CANTT T = 111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 1 0160 11 177                         | 71452 BPCANTT T-2 11 000                             | 6 1 0160 11 177             |
|   | 71/152 | $T_{-3}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1 0219 11 241                         | 71471  KARORPCA T = 111 000                          | 6 0 9801 10 781             |
|   | 71/72  | $K_{ABOBBCA} = 211,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 1 0092 11 101                         | 71473 KARORICA T 111.000                             | 6 0 9793 10 772             |
|   | 71/01  | $\frac{1}{2} \frac{1}{2} 6 0 9990 10 989                         | 71473 RARORFCA 1 311,000<br>71492 RARORFCA 1 311,000 | 6 0 0.0700 10 0.072         |
|   | 71501  | DUNTAFUN $T = 311,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 0 9607 10 567                         | 71492 DUNTAPUR 1-411,000<br>71502 SAMASATA T 211 000 | 6 0.9990 10.909             |
|   | 71501  | $\begin{array}{ccc} \text{SAMASATA} & -111.000 \\ \text{T} & 11.000 \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 0.9007 10.907                         | 71502 SAMASATA $1-211.00071522 \pm 2 11 000$         | 6 0.9007 10.907             |
|   | 71501  | $1-1 \qquad 11.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 0.9443 10.309                         | 71502 MUP DUD T2 11 000                              | 0 0.9373 10.313             |
|   | 71091  | MUB-PUK-II II.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0 0.9040 10.013                         | 71392 MUB-PUR-12 11.000<br>71602 + TACATER T 211.000 | 0 0.9040 10.013             |
|   | 71001  | LIAUATPR $1 - 111.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 0.9373 10.331                         | 71002 LIAQAIPK 1-211.000                             | 6 0.9575 10.551             |
|   | 71702  | AHMDPR.E 1-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0055 11.060                         | 71703 AHMDPR.E 1-311.000                             | 6 0.9946 10.941             |
|   | /1/04  | AHMDPR.E 14 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9953 10.949                         | 71801 FEROZA I-1 11.000                              | 6 1.0351 11.386             |
|   | 71802  | FEROZA I-Z 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 1.0396 11.436                         | 71851 KHANBELA T-111.000                             | 6 0.9668 10.635             |
|   | 71852  | KHANBELA T-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 1.0423                                | 71853 T-3 11.000                                     | 6 0.9780 10.758             |
|   | 72001  | KHANPUR T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0222 11.245                         | 72002 KHANPUR T-2 11.000                             | 6 0.9533 10.486             |
|   | 72003  | KHANPUR T-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9694 10.663                         | 72101 MWQRSHIA T-111.000                             | 6 1.0560 11.616             |
|   | 72102  | MWQRSHIA T2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0402 11.442                         | 72103 T-3 11.000                                     | 6 1.0555 11.610             |
|   | 72111  | т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9963 10.959                         | 72112 T-2 11.000                                     | 6 0.9920 10.912             |
|   | 72201  | R.Y.KHAN T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0077 11.085                         | 72202 R.Y.KHAN T-211.000                             | 6 0.9709 10.680             |
|   | 72203  | R.Y.KHAN T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0130 11.143                         | 72204 T-4 11.000                                     | 6 0.9957 10.953             |
|   | 72251  | R.Y.KHN2 T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9598 10.558                         | 72252 R.Y.KHN2 T-211.000                             | 6 0.9526 10.479             |
|   | 72253  | т-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9982 10.980                         | 72291 T-1 11.000                                     | 6 0.9836 10.820             |
|   | 72292  | T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9836 10.820                         | 72301 SADIOABD T-111.000                             | 6 1.0164 11.180             |
|   | 72302  | SADIOABD T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0164 11.180                         | 72303 SADIQABD T-311.000                             | 6 1.0309 11.340             |
|   | 72304  | LALPIR 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 1.0192 11.212                         | 72311 WALANA T-1 11.000                              | 6 1.0016 11.018             |
|   | 72312  | WALANA T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 1.0069 11.076                         | 72351 NAWAZ T-1 11.000                               | 6 0.9927 10.919             |
|   | 72352  | NAWAZAB $T = 2 11,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1.0130 11.143                         | 72353 T-3 11.000                                     | 6 1.0161 11.177             |
|   | 72401  | $D_{\rm WALT} = 111,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 0.9747 10.722                         | 72402 JDWALT T-2 11 000                              | 6 0.9488 10.437             |
|   | 72403  | 1 D WALT T-311 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0206 11.226                         | 72501 MN.KH.RD T-111.000                             | 6 1.0005 11.006             |
|   |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ |                                                      |                             |

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2024-WITHOUT.txt 72502 MN.KH.RD T-211.000 6 0.9958 10.953 72503 MN.KH.RD T-311.000 72551 WAP TO T-1 11.000 6 1.0208 11.229 72552 WAPDA TO T-211.000 72554 T-3 11.000 6 0.9876 10.863 72601 MN.BS.RD T-111.000 72602 MN.BS.RD T-211.000 6 0.9810 10.791 72603 MN.BS.RD T-311.000 72604 T-4 6 0.9845 10.830 11.000 72611 PNJB HSG T-111.000 6 1.0017 11.019 72612 PNJB HSG T-211.000 72621 BUCH VLS T-111.000 72651 Q BAGH T-1 11.000 6 0.9728 10.701 72652 Q BAGH T-2 11.000 72691 T-1 11.000 6 0.9786 10.764 72692 T-2 72701 MLN-IND T-1 11.000 6 1.0151 11.166 72702 MLN-IND T-2 11.000 72703 MLN-IND T-3 11.000 6 1.0019 11.021 72731 SURJ MNI T-111.000 72732 SURJ MNI T-211.000 6 1.0071 11.078 72801 MN.VR.RD T-111.000 72802 MN.VR.RD T-211.000 6 1.0455 11.500 72803 MN.VR.RD T-311.000 6 0.9926 10.918 72804 T-4 11,00072851 QASIMPUR T-111.000 72852 QASIMPUR T-211.000 6 1.0176 11.194 72853 QASIMPUR T-311.000 72854 T-4 11.000 6 0.9864 10.851 72871 M.J RD T-1 11.000 72872 M.J.RD T-2 11.000 6 0.9500 10.450 72881 SHUJABAD T-111.000 72882 SHUJABAD T-211.000 6 1.0071 11.078 72883 SHUJABAD T-311.000 72891 J.P.W T-1 6 1.0160 11.176 11.000 72892 J.P.W T-2 72893 J.P.W T-3 72901 MESCO T-1 11.000 6 1.0232 11.255 11.000 6 1.0448 11.492 72902 MESCO T-2 72903 MESCO T-3 73111 т-1 11.000 6 1.0055 11.061 73112 T-2 73201 GUJRAT.S T1 11.000 6 1.0188 11.207 73202 GUJRAT.S T3 11.000 73203 GUJRAT.S T2 11.000 6 1.0181 11.199 73251 LAYYAH T-1 11.000 73252 LAYYAH T-2 11.000 6 1.0170 11.187 73253 LAYYAH T-3 11.000 73281 KBGASHER T-111.000 6 1.0083 11.092 73282 KBGASHER T-211.000 73301 MZFRGARH T-111.000 6 0.9756 10.731 73302 MZFRGARH T-211.000 6 0.9756 10.731 73303 MZFRGARH T-311.000 73312 KOTADU-O T-211.000 73313 KOTADU-O T-311.000 6 1.0331 11.364 73314 KOTADU-O T-411.000 73321 N.A.WALI T-211.000 6 1.0160 11.176 73322 N.A.WALI T-111.000 73331 S S DIN T1 11.000 6 1.0220 11.242 73332 S S DIN T2 11.000 73351 KOTSULTAN-T111.000 6 1.0175 11.193 73352 KOTSULTAN-T211.000 73361 KAROR L.E-T111.000 6 0.9833 10.816 73362 KAROR L.E-T2 6 0.9994 10.993 73402 MEHRKHAS T-211.000 73401 MEHRKHAS T-111.000 6 0.9567 73403 MEHRKHAS T-3 73501 DMR WALA T-111.000 73502 DMR WALA T-211.000 6 0.9104 10.014 73601 JATOIJNB T-111.000 73602 JATOIJNB T-211.000 6 0.9700 10.670 73603 Т-3 73701 KHRPRSDT T-111.000 6 0.9397 10.337 73702 KHPRSDT T-2 11.000 73951 SHA.LND T-1 11.000 6 1.0076 11.083 73952 SHA LND T-2 11.000 6 0.9809 10.790 74001 TAUNSA T-1 11.000 74002 TAUNSA T-2 11.000 74003 T-3 6 1.0085 11.094 11.000 74111 T-1 11.000 6 1.0014 11.015 74121 т-1 74131 т-1 11.000 6 1.0143 11.157 74141 T-1 74161 T-1 74401 CHOKMNDA T-111.000 6 1.0214 11.236 74402 CHOKMNDA T-211.000

6 1.0005 11.006 6 0.9944 10.938 6 1.0189 11.208 6 1.0189 11.208 6 1.0017 11.019 6 1.0112 11.123 6 0.9789 10.767 6 0.9786 10.764 6 0.9503 10.454 6 1.0199 11.219 6 1.0168 11.185 6 1.0234 11.258 6 1.0260 11.287 6 1.0367 11.404 6 0.9500 10.450 6 1.0066 11.073 6 0.9826 10.808 6 1.0156 11.171 6 0.9967 10.964 6 1.0160 11.176 6 1.0055 11.061 6 1.0245 11.270 6 1.0170 11.187 6 1.0191 11.210 6 1.0097 11.107 6 0.9747 10.721 6 1.0393 11.432 6 1.0270 11.297 6 1.0213 11.234 6 0.9998 10.998 6 1.0308 11.339 6 0.9833 6 0.9994 10.993 6 0.9798 10.778 6 0.9815 10.796 6 0.9719 10.691 6 0.9452 10.397 6 0.9811 10.792 6 0.9809 10.790 6 0.9621 10.583 6 1.0002 11.002 6 1.0028 11.031 6 1.0159 11.175

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|-----|---------------|--------------------|---|--------|---------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|     | 74502         | CHAUBARA T-211.000 | 6 | 1.0137 | 11.151  | 74562 CHOKAZAM T1 11.000 | 6 1.0235                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.258 |
|     | 74563         | т-3 11.000         | 6 | 1.0017 | 11.019  | 74591 KHANGARH T-111.000 | 6 0.9414                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.355 |
|     | 74592         | KHANGARH T-211.000 | 6 | 0.9475 | 10.422  | 74602 D.G.KHAN T-211.000 | 6 1.0028                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.030 |
|     | 74603         | D.G.KHAN T-311.000 | 6 | 1.0059 | 11.064  | 74604 D.G.KHAN T-411.000 | 6 0.9897                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.887 |
|     | 74641         | т-1 11.000         | 6 | 0.9860 | 10.846  | 74651 KOTCHUTA T-111.000 | 6 0.9833                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.816 |
|     | 74652         | котснита т-211.000 | 6 | 0.9833 | 10.816  | 74653 KOTCHUTTA T311.000 | 6 0.9877                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.865 |
|     | 74691         | СНОТІ Т-1 11.000   | 6 | 0.9914 | 10.905  | 74701 ROJHAN T-1 11.000  | 6 1.0010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.011 |
|     | 74731         | т-1 11.000         | 6 | 0.9875 | 10.863  | 75901 SKHISRWR T-111.000 | 6 0.9891                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.881 |
|     | 75902         | SKISRWR T-2 11.000 | 6 | 0.9745 | 10.719  | 77811 YAZMAN-T-1 11.000  | 6 0.9844                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.829 |
|     | 77812         | YAZMAN T-2 11.000  | 6 | 0.9844 | 10.829  | 77911 MAROOT T1 11.000   | 6 1.0219                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.241 |
| 2   | 77912         | MAROOT T-2 11.000  | 6 | 1.0108 | 11.119  | 78311 FATEHPUR T-111.000 | 6 0.9782                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.760 |
| ÷   | 78312         | FATEPUR T-2 11.000 | 6 | 0.9946 | 10.941  | 78313 T-3 11.000         | 6 1.0246                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.271 |
|     | 78401         | т1 11.000          | 6 | 0.9952 | 10.948  | 78901 NAWANKOT T-111.000 | 6 1.0066                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.073 |
|     | 79091         | D.G.K.II T-111.000 | 6 | 1.0219 | 11.241  | 79092 D.G.K.II T-211.000 | 6 1.0089                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.097 |
|     | 79301         | JAMPUR T-1 11.000  | 6 | 0.9773 | 10.751  | 79302 JAMPUR T-2 11.000  | 6 0.9998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.998 |
|     | 79331         | FAZALPUR T-111.000 | 6 | 1.0045 | 11.049  | 79332 FAZALPUR T-211.000 | 6 0.9949                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10,944 |
|     | 79511         | RAJANPUR T-111.000 | 6 | 1.0177 | 11.195  | 79512 RAJANPUR T-211.000 | 6 1.0177                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.195 |
|     | 79513         | RAJANPUR T-3       | 6 | 0.9976 |         | 79741 UCH.SHRF T-211.000 | 6.0.9990                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.989 |
|     | 79742         | UCH.SHRF T-311.000 | 6 | 0.9776 | 10.754  | 79743 UCH.SHRF T-111.000 | 6 1.0043                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.047 |
|     | 79811         | ALI PUR T-1 11.000 | 6 | 0.9373 | 10.310  | 79812 ALIPUR T-2 11.000  | 6 0.9511                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.462 |
| j.  | 79813         | ALIPUR T-3 11.000  | 6 | 0.9376 | 10.313  | 79821 Т-1 11.000         | 6 0.9162                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.079 |
|     | 79822         | т-2 11.000         | 6 | 0.9162 | 10.079  | 79841 H.R. KAN T1 11.000 | 6 1.0255                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.281 |
|     | 79842         | т-2 11.000         | 6 | 0.9942 | 10.937  | 79904 T-4 11.000         | 6 0.9756                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10.732 |
| . ' | 79961         | FRT MNRO T-111.000 | 6 | 1.0085 | 11.094  | 79962 т-2 11.000         | 6 1.0083                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11.092 |
| 7   | 732512        | ISM-132KV 132.00   | 6 | 1.0218 | 134.88  |                          | 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - C. 1944 - |        |

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PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS(R)E TUE, JAN 26 2021 11:47 MEPCO-2024-REVISED-DIIP-WITH

BUSES WITH VOLTAGE GREATER THAN 2.0000:

BUS# X-- NAME --X BASKV AREA V(PU) V(KV) BUS# X-- NAME --X BASKV AREA V(PU) V(KV)

\* NONE \*

BUSES WITH VOLTAGE LESS THAN 1,7000:

|   | BUS# | X NAME>      | ( BASKV | AREA | V(PU)  | ∨(KV)  |       | BUS# | X NAME      | X BASKV | AREA | V(PU)  | V(KV)  |
|---|------|--------------|---------|------|--------|--------|-------|------|-------------|---------|------|--------|--------|
|   | 401  | т-3          | 11.000  | 6    | 0.9967 | 10.963 |       | 502  | т-3         | 11.000  | 6    | 0.9933 | 10.927 |
|   | 529  | PARCO        | 220.00  | 6    | 1.0386 | 228.50 |       | 5282 | FATMA ENERG | Y132.00 | 6    | 1.0200 | 134.64 |
|   | 5283 | FAZAL CLOTH  | 132.00  | 6    | 1.0193 | 134.55 |       | 6030 | QADIRABD    | 132.00  | 6    | 1.0302 | 135.98 |
|   | 6050 | BNGAHYAT     | 132.00  | 6    | 1.0105 | 133.38 |       | 6070 | YOUSFWLA    | 132.00  | 6    | 1.0237 | 135.12 |
|   | 6080 | SAHIWALN     | 132.00  | . 6  | 1.0156 | 134.06 |       | 6090 | SAHIWAL-O   | 132.00  | 6    | 1.0154 | 134.03 |
|   | 6095 | SAHIWAL III  | 132.00  | 6    | 1.0125 | 133.65 |       | 6100 | NOORPUR     | 132.00  | 6    | 1.0088 | 133.17 |
|   | 6101 | PAKPATTAN-2  | 132.00  | 6    | 1.0030 | 132.40 |       | 6120 | PAKPATAN    | 132.00  | 6    | 0.9867 | 130.25 |
|   | 6130 | HARAPPA      | 132.00  | . 6  | 0.9991 | 131.89 |       | 6140 | CHCHWTNI    | 132.00  | 6    | 1.0037 | 132.49 |
|   | 6149 | KASOWAL132   | 132.00  | 6    | 1.0001 | 132.02 |       | 6150 | SH.FAZAL    | 132.00  | 6    | 0.9785 | 129.16 |
|   | 6160 | BUREWALA     | 132.00  | . 6  | 0.9673 | 127.69 |       | 6162 | BREWLA-O    | 132.00  | 6    | 0.9600 | 126.72 |
|   | 6163 | GAG00        | 132.00  | 6    | 0.9600 | 126.72 |       | 6169 | VEHARI-N    | 132.00  | 6    | 1.0043 | 132.56 |
|   | 6170 | VEHARI-O     | 132.00  | 6    | 1.0008 | 132.11 |       | 6175 | LUDDEN      | 132.00  | 6    | 0.9841 | 129.90 |
|   | 6178 | KARAMPUR     | 132.00  | . 6  | 0.9725 | 128.37 |       | 6179 | MACHIWAL    | 132.00  | 6    | 0.9800 | 129.36 |
|   | 6180 | ARIFWALA     | 132.00  | · 6  | 0.9679 | 127.76 | -<br> | 6181 | ARIFWALA-2  | 132.00  | 6    | 0.9677 | 127.74 |
|   | 6182 | KAMIRWALA    | 132.00  | 6    | 0.9836 | 129.83 |       | 6190 | BWL.NAGR    | 132.00  | 6    | 0.9740 | 128.57 |
|   | 6191 | HOTA         | 132.00  | 6    | 0.9663 | 127.56 |       | 6200 | QABULA      | 132.00  | 6    | 0.9605 | 126.79 |
|   | 6210 | SAHUKA       | 132.00  | 6    | 0.9652 | 127.40 |       | 6220 | HASILPUR    | 132.00  | 6    | 0.9871 | 130.29 |
| ÷ | 6221 | CHUNAWALA    | 132.00  | 6    | 0.9855 | 130.08 |       | 6230 | CHISTIAN-O  | 132.00  | 6    | 0.9891 | 130.56 |
|   | 6231 | CHSTAN-N     | 132.00  | 6    | 0.9947 | 131.30 |       | 6232 | DHARWALA132 | 132.00  | 6    | 0.9816 | 129.57 |
|   | 6238 | BUKHSHAN 132 | 2132.00 | 6    | 0.9916 | 130.89 |       | 6239 | CHISTIAN 13 | 2132.00 | 6    | 0.9930 | 131.07 |
|   | 6250 | MAN-KOT      | 132.00  | 6    | 0.9974 | 131.65 |       | 6410 | HASILPUR    | 66.000  | 6    | 0.9871 | 65.146 |
|   | 6419 | L.SOHANRA    | 132.00  | - 6  | 1.0028 | 132.38 |       | 6420 | BEST-GREEN  | 132.00  | 6    | 1.0200 | 134.64 |
|   | 6421 | K.P.TOMI     | 132.00  | . 6  | 0.9908 | 130.79 |       | 6422 | APPOLO-SOLA | R132.00 | 6    | 1.0184 | 134.43 |
|   | 6462 | NOORSAR      | 132.00  | 6    | 0.9862 | 130.18 |       | 6482 | MNCHNBAD    | 132.00  | 6    | 0.9602 | 126.75 |
|   | 6488 | BWL NAGAR-2  | 132.00  | 6    | 0.9813 | 129.53 |       | 6489 | DONGA BNGA  | 132.00  | 6    | 0.9773 | 129.00 |
|   | 6491 | MCLD.GNJ     | 132.00  | 6    | 0.9562 | 126.22 |       | 6501 | HARONABD    | 132.00  | 6    | 0.9803 | 129.40 |
|   | 6512 | FAQIRWLI     | 132.00  | 6    | 0.9793 | 129.27 |       | 6519 | KHICHIWALA  | 132.00  | 6    | 0.9//3 | 129.01 |
|   | 6521 | FORTABAS     | 132.00  | 6    | 0.9824 | 129.68 |       | 6666 | MULTAN-N    | 132.00  | - 6  | 1.0146 | T33.83 |

|          |       |               |         |        |        | 202    | 4-WI | TH.t> | κt i         |        | · · · · ·                 |
|----------|-------|---------------|---------|--------|--------|--------|------|-------|--------------|--------|---------------------------|
| 1        | 7000  | MTANCHNU      | 132.00  | 6      | 0.9814 | 129.54 |      | 7001  | СНАК-83-132  | 132.00 | 6 0.9970 131.60           |
|          | 7002  | KASSOWAL      | 132 00  | 6      | 1.0149 | 133.97 |      | 7006  | HEAD STDHNAT | 132.00 | 6 0.9621 127.00           |
|          | 7010  | KACHAKHI      | 132 00  | ĕ      | 0.9677 | 127.74 |      | 7020  | KHANFWAI     | 132.00 | 6 0.9767 128.93           |
|          | 7020  |               | 132.00  | ĕ      | 1 0000 | 132 00 |      | 7030  | KABTRWIA     | 132.00 | 6 0.9703 128.07           |
|          | 7022  |               | 132.00  | ĕ      | 0 9605 | 126.79 |      | 7040  | GARHMORE     | 132.00 | 6 0.9796 129.31           |
| Ϊ.       | 7012  | B-BANGLA      | 132.00  | . Ğ    | 0 9588 | 126 56 |      | 7050  | ΤΕΗΔΝΤΔΝ     | 132 00 | 6 0 9739 128 56           |
|          | 7042  | CHAR 211      | 132.00  | ă      | 0,9646 | 127.33 |      | 7070  | MATIST       | 132 00 | 6 0 9745 128 64           |
|          | 7075  |               | 132.00  | 6      | 0 9724 | 128 36 |      | 7100  | P GATE-1     | 132.00 | $6 \ 1 \ 0.87 \ 133 \ 15$ |
|          | 7075  |               | 132.00  | 6<br>6 | 0 0071 | 131.62 |      | 7110  | RASTIMIK     | 132.00 | 6 0 9871 130 30           |
| ·<br>·   | 7105  | FIGHTD-Z      | 132.00  | a<br>a | 0.0700 | 120 35 |      | 7115  | MTRAN DUD    | 132.00 | 6 0 9851 130 03           |
| <u>.</u> | 7120  |               | 132.00  | 6      | 1 0121 | 122 50 |      | 7125  |              | 132.00 | 6 0 9832 129 78           |
|          | 7120  |               | 132.00  | 6      | 1 0056 | 133.33 |      | 7128  | DWDN_2       | 132.00 | $6 \ 1 \ 0022 \ 1223.70$  |
| ,        | 7120  | BU.JADID      | 122.00  | 6      | 1 0388 | 137 13 |      | 7140  |              | 132.00 | $6 \ 1 \ 0730 \ 135 \ 15$ |
|          | 7141  | B.W.P-N       | 122.00  | 0      | 1 0200 | 124 64 |      | 7140  |              | 122.00 | $6 \ 1 \ 0212 \ 126 \ 12$ |
|          | 7141  | CODECT ENERCY | 122.00  | 0      | 1 0214 | 124.04 |      | 7147  | KARORDCA     | 122.00 | 6 0 0004 120 72           |
|          | 7140  | CREST-ENERG   | 122.00  | i o    | 1.0214 | 124.03 |      | 7147  |              | 122.00 | 0 0.9904 130.75           |
|          | 7148  | QAD-SUL-1     | 132.00  | 0      | 1.0200 | 121.04 |      | 7149  |              | 122.00 | 6 0.9776 129.04           |
| : '      | 7150  | SAMASATA      | 132.00  | 0      | 0.9927 | 131.04 |      | 7100  | KUT KHALIFA  | 122.00 | 6 0.9090 127.91           |
|          | 7159  | MUB-PUK       | 132.00  | 0      | 0.9010 | 129.00 |      | 7170  |              | 132.00 | 0 0.9733 120.40           |
|          | 7170  | AHMDPR.E      | 132.00  | 6      | 0.9765 | 122.90 |      | 7105  | KYK-PP       | 132.00 | 6 1.0100 133.32           |
|          | 7180  | FEROZA        | 132.00  | 0      | 1.0113 | 133.49 |      | 7100  | KHANBELA     | 132.00 | 0 0.9928 131.04           |
|          | /190  | HAMZA-PP      | 132.00  | 6      | 1.0000 | 132.00 |      | 7200  | KHANPUK      | 132.00 | 0 1.0007 132.00           |
| ÷.,      | 7210  | MWQRSHIA      | 132.00  | o c    | 1.0185 | 134.43 |      |       | VEHARI-Z     | 132.00 | 6 1.0039 132.32           |
|          | 1220  | R.Y.KHAN      | 132.00  | 0      | 0.9969 | 130 60 |      | 7221  | RYK-NEW      | 132.00 | 0 1.0240 133.23           |
| ÷        | 7225  | R.Y.KHNZ      | 132.00  | 0      | 0.9900 | 130.00 |      | 7229  | KYK-5        | 132.00 | 0 0.9995 151.91           |
|          | 7230  | SADIQABD      |         | 6      | 1.0155 | 134.04 |      | 723±  | SANJARPUR    | 132.00 | 6 1.0197 134.60           |
|          | 1232  | JDW II USM I  | PI32.00 | 6      | 1.0300 | 135.90 |      | 7235  | NAWAZABD     | 132.00 | 6 1.0203 134.07           |
|          | 1231  | RIE           | 132.00  | 6      | 1.0125 | 133.05 |      | 7240  | J.D.WALL     | 132.00 | $6 \pm .0023 \pm 32.30$   |
|          | 7250  | MN.KH.RD      | 132.00  | 6      | 1.0111 | 133.47 |      | 7255  | WAPDATWN     | 132.00 | 6 0.9992 131.90           |
|          | 7260  | MN BS RD      | 132.00  | . 0    | 0.9929 | 130.07 |      | 7261  | PUNJAB HOSNO | 122.00 | 6 1.0072 132.95           |
|          | 7262  | BUCH VILLAS   | 122.00  | 6      | 0.9911 | 130.82 |      | 7200  | QASIMBGH     | 132.00 | 6 0.9939 131.19           |
|          | 1209  | RAWAN ROAD    | 132.00  | 0      | 1.0002 | 121.02 |      | 7270  | MEN-IND      | 122.00 | 0 0.9949 131.33           |
|          | -1212 | COCA COLA     | 132.00  | 0      | 0.9949 | 101.00 |      | 1213  | SURAJ MIANI  | 132.00 | 6 0.9927 131.03           |
|          | 7275  | C.I.MILL      | 122.00  | 0      | 0.9941 | 121.22 |      | 7705  |              | 122.00 | 6 0.9090 130.34           |
|          | 7280  |               | 132.00  | 0      | 0.9944 | 120 50 |      | 7203  | QASIMPUR     | 122.00 | 0 0.9912 130.04           |
|          | 1287  | M.JAILRD      | 132.00  | 6      | 0.9892 | 130.30 |      | 7200  | SHUJABAD     | 132.00 | 0 0.9795 129.27           |
|          | (289  | JALALPWL      | 132.00  | 6      | 0.9736 | 120.31 |      | 7290  | MESCO        | 122.00 | 6 0.9625 129.06           |
|          | /300  | KAPCO         | 132.00  | 6      | 1.0490 | 125.47 |      |       | MZFRGARH-Z   | 132.00 | 0 1.0080 133.03           |
|          | 7320  | GUJRAL S      | 132.00  | 6      | 1.0231 | 135.3L |      | 1323  |              | 122.00 | 0 1.0238 133.40           |
|          | 1328  | KBGASHER      | 132.UU  | 6      | 1.0241 | 120.10 |      | 7330  |              | 122.00 | $0 \pm .0009 \pm 32.92$   |
|          | /331  | KOTADU-O      | 132.00  | b      | L.04/4 | 130.25 |      | 1332  | N.A.WALL     | 132.00 | 0 1.0323 130.20           |
|          | ./333 | S.S.DIN       | 132.00  | 6      | 1.008/ | 133.15 |      | 1334  | M GARH NEW   | 132.00 | $6 \pm .0083 \pm 33.10$   |
|          | /335  | KOTSULTAN     | 132.00  | 6      | 1.0344 | 136.54 |      | 1336  | KAROR L.E    | 132.00 | 6 I.UI33 I33./5           |
|          | 7337  | FPGL          | 132.00  | 6      | 1.0200 | 134.64 |      | 1338  | LAYYAH-Z     | T75"00 | 6 I.UI89 I34.50           |

10 S 10

|       |              |         |    |        | 2024-1 | NITH.t | xt           |         |   |                  |        |
|-------|--------------|---------|----|--------|--------|--------|--------------|---------|---|------------------|--------|
| 7339  | DUMMY IND    | 132.00  | 6  | 1.0070 | 132.93 | 7340   | MEHRKHAS     | 132.00  | 6 | 0.9719           | 128.30 |
| 7350  | DMR WALA     | 132.00  | 6  | 0.9642 | 127.27 | 7360   | JATOIJNB     | 132.00  | 6 | 0.9567           | 126.28 |
| 7370  | KHRPRSDT     | 132.00  | Ğ. | 0.9650 | 127.38 | 7395   | SHAD, IND    | 132.00  | 6 | 1.0163           | 134.15 |
| 7400  | TAUNSA       | 132.00  | õ  | 1.0050 | 132.66 | 7411   | MTANCHANU-2  | 132.00  | ě | 0.9776           | 129.04 |
| 7412  | P. GHATB132K | /132.00 | ĕ  | 1.0046 | 132.61 | 7413   | SHAH JAMAI   | 132.00  | õ | 1.0083           | 133.10 |
| 7414  | KOT MTTHAN   | 132 00  | ň  | 1 0169 | 134 24 | 7416   | DRAWAR MORE  | 132 00  | õ | 1 0147           | 133 94 |
| 7435  | PARCO        | 132 00  | ĕ  | 1 0118 | 133 56 | 7436   | T = PARCO    | 132.00  | 6 | 1 0119           | 133 57 |
| 7440  | CHOKMNDA     | 132 00  | ă  | 1 0358 | 136 73 | 7442   | T-AHTM       | 132 00  | õ | $1^{\circ} 0404$ | 137 34 |
| 7443  |              | 132.00  | ñ  | 1 0404 | 137 33 | 7450   | CHAURARA     | 132.00  | 6 | 1 0325           | 136 30 |
| 7456  | CHOKAZAM     | 132 00  | ñ  | 1 0230 | 135 04 | 7450   | KHANGARH     | 132.00  | 6 | 0 9864           | 130.00 |
| 7460  |              | 132 00  | Ã  | 1 0083 | 133 10 | 7462   |              | 132 00  | ĥ | 1 0135           | 133 78 |
| 7463  | CPC-DGK      | 132.00  | ĥ  | 1 0089 | 122 18 | 7462   |              | 2132 00 | ĥ | 1 0013           | 132 17 |
| 7465  | KOTCHUTA     | 132.00  | ñ  | 1 0046 | 132 61 | 7466   | T-ATM        | 132.00  | ñ | 1 0072           | 132.17 |
| 7467  | ΔΤΜ          | 132.00  | ĥ  | 1 0072 | 132.01 | 7400   | CHOTT 132    | 132.00  | ĥ | 1 0094           | 122.00 |
| 7470  | ROTHAN       | 132.00  | ĥ  | 1 0321 | 136 23 | 7403   |              | 132.00  | 6 | 0 00094          | 121 07 |
| 7477  | ZENEA        | 132.00  | 6  | 1 0335 | 136 42 | 7511   | KOT SAMARA   | 132.00  | 6 | 1 0062           | 132 82 |
| 7580  | CMNT FCT     | 132.00  | ĥ  | 1 0124 | 133 63 | 7590   | SKHTSRWR     | 132.00  | 6 | 1 0116           | 122.02 |
| 7650  | L SUHANRA132 | 2132.00 | ĕ  | 1 0243 | 135 21 | 7711   | RAHAWAL PUR- | 2132 00 | ñ | 1 0103           | 133.36 |
| 7781  | YAZMAN       | 132.00  | õ  | 1.0171 | 134 26 | 7791   | MAROOT       | 132.00  | 6 | 1 0012           | 132 16 |
| 7800  | KOTADDU      | 66.000  | ŏ  | 1.0424 | 68 801 | 7831   | FATEHPUR     | 132 00  | ñ | 1 0105           | 133 39 |
| 7840  | RANGPUR      | 66.000  | õ  | 1.0234 | 67.545 | 7842   | T-RANGPR     | 66.000  | õ | 1.0399           | 68 632 |
| 7892  | NAWAKOT      | 132.00  | Ğ  | 1.0321 | 136.23 | 7909   | D.G.KHAN II  | 132.00  | õ | 1.0061           | 132.81 |
| 7911  | ARRAY WAHAN  | 132.00  | 6  | 0.9783 | 129.13 | 7930   | JAMPUR       | 132.00  | Š | 1.0032           | 132.42 |
| 7933  | FAZALPUR     | 132.00  | 6  | 1.0077 | 133.02 | 7951   | RAJANPUR     | 132.00  | 6 | 1.0128           | 133.68 |
| 7959  | INDUS ENERGY | 132.00  | 6  | 1.0200 | 134.64 | 7974   | UCH.SHRF     | 132.00  | 6 | 0.9647           | 127.34 |
| 7981  | ALI PUR      | 132.00  | 6  | 0.9611 | 126.87 | 7982   | JATOI-2      | 132.00  | 6 | 0.9538           | 125,90 |
| 7984  | HEAD-RJ-KN   | 132.00  | 6  | 1.0150 | 133.98 | 7996   | FORT.MINRO   | 132.00  | 6 | 1.0117           | 133.55 |
| 60301 | QADIRABD T-1 | .11.000 | 6  | 1.0182 | 11.200 | 60302  | QADIRABD T-2 | 211.000 | 6 | 1.0182           | 11.200 |
| 60303 | т-3          | 11.000  | 6  | 1.0270 | 11.296 | 60501  | BNGAHYAT T-2 | 111.000 | 6 | 0.9925           | 10.917 |
| 50502 | BNGAHYAT T-2 | 11.000  | 6  | 0.9919 | 10.910 | 60503  | т-3          | 11.000  | 6 | 0.9932           | 10.925 |
| 50801 | SAHIWALN T-1 | .11.000 | 6  | 0.9682 | 10.650 | 60802  | SAHIWALN T-2 | 211.000 | 6 | 0.9682           | 10.650 |
| 50803 | T-3          | 11.000  | 6  | 1.0163 | 11.180 | 60901  | SAHWAL-O T-2 | 111.000 | 6 | 1.0167           | 11.184 |
| 50902 | SAHWAL-O T-2 | 11.000  | 6  | 0.9955 | 10.951 | 60903  | SAHWAL-O T-  | 311.000 | 6 | 1.0167           | 11.184 |
| 50951 | SWL III T-1  | 11.000  | 6  | 1.0144 | 11.158 | 60952  | SWL III T-2  | 11.000  | 6 | 0.9851           | 10.836 |
| 50953 | т-3          | 11.000  | 6  | 1.0075 | 11.082 | 61001  | NOORPUR T-1  | 11.000  | 6 | 1.0005           | 11.005 |
| 51002 | NOORPUR T-2  | 11.000  | 6  | 0.9895 | 10.885 | 61004  | т-3          | 11.000  | 6 | 0.9806           | 10.787 |
| 51011 | T-1          | 11.000  | 6  | 0.9870 | 10.857 | 61012  | T-2          | 11.000  | 6 | 0.9856           | 10.842 |
| 51201 | PAKPATAN T-1 | .11.000 | 6  | 0.9707 | 10.677 | 61202  | PAKPATAN T-2 | 211.000 | 6 | 0.9707           | 10.677 |
| 51203 | PAKPATAN T-3 | 11.000  | 6  | 0.9646 | 10.611 | 61301  | HARAPPA T-1  | 11.000  | 6 | 0.9641           | 10.605 |
| 51302 | HARAPPA T-2  | 11.000  | 6  | 1.0086 | 11.095 | 61401  | CHCHWTNI T-  | 1       | 6 | 1.0120           |        |
| 51402 | CHCHWTNI T-2 | 11.000  | 6  | 1.0192 | 11.211 | 61403  | CHCHWTNI T-  | 311.000 | 6 | 1.0068           | 11.075 |
| 51491 | T-1          | 11.000  | 6  | 0.9888 | 10.877 | 61501  | SH.FAZAL T-  | 111.000 | 6 | 1.0194           | 11.214 |
| 51202 | SH.FAZAL T-2 | 11.000  | 6  | 1.0194 | 11.214 | 61503  | T-3          | 11.000  | 6 | 1.0358           | 11.394 |

|   | t i stelle |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | 20     | 24-WITH.txt                                              | •                    |            |
|---|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|----------------------------------------------------------|----------------------|------------|
|   | 61601      | BUREWALA T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0362 | 11.398 | 61602 BUREWALA T-211 000                                 | 6 1 0063             | 11 069     |
|   | 61603      | BUREWALA T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0 9734 | 10 707 | 61621 BREWLARD T-111 000                                 | 6 0 0007             | 10 202     |
|   | 61622      | BREWLA-0 T-211 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0085 | 11 094 | $61623 T_{-3}$ 11 000                                    | 6 0 0062             | 10.050     |
|   | 61631      | GAGOO T = 1 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0152 | 11 167 | $61632 CACOO T_2 2 11 000$                               | 6 1 0167             | 11 104     |
|   | 61701      | $V = HAPT_{-0} = T_{-111} = 0.00$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 0 0001 | 10 002 | 61702 VELAPT O T 211.000                                 | 0 1.010/             | 11,184     |
|   | 61701      | VEHART T 2 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 1 0071 | 11 070 | 61702 VEHAR1-0 1-211.000                                 | 6 1.0313             | 11.345     |
|   | 61752      | VEHARI = 1 = 3 = 11,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | 11 225 | 61/51 LUDDEN I-1 11.000                                  | 6 0.9891             | 10.880     |
|   | 01732      | LUDDEN 1~2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 1.0204 | 11.225 | 61781 KARAMPUR T-111.000                                 | 6 1.0158             | 11.174     |
|   | 01702      | KARAMPUR 1-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0266 | 11.292 | 61/91 TL 11.000                                          | 6 0.9769             | 10.746     |
|   | 61/92      | 12 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 0.9769 | 10.746 | 61801 ARIFWALA T-311.000                                 | 6 1.0274             | 11.301     |
|   | 61802      | ARIFWALA T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.02/4 | 11.301 | 61803 ARIFWALA T-111.000                                 | 6 0.9856             | 10.842     |
|   | 61811      | T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0164 | 11.181 | 61812 T-2 11.000                                         | 6 1.0164             | 11.181     |
|   | 61821      | KAMIRW T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 0.9752 | 10.727 | 61822 KAMIR W T-2 11.000                                 | 6 0.9752             | 10.727     |
|   | 61901      | BWL.NAGR T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9776 | 10.753 | 61902 T-3 11.000                                         | 6 1.0142             | 11.156     |
|   | 61903      | BWL.NAGR T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9776 | 10.753 | 61911 HOTA T-1 11.000                                    | 6 1.0005             | 11.006     |
|   | 61912      | HOTA T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1.0306 | 11.337 | 61913 т-3 11.000                                         | 6 0.9611             | 10.573     |
|   | 62001      | QABULA T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 1.0009 | 11.009 | 62002 QABULA T-2 11,000                                  | 6 1.0120             | 11,131     |
|   | 62003      | QABULA T-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 0.9942 | 10.936 | 62101 SAHUKA T-1 11.000                                  | 6 0.9999             | 10,999     |
| ÷ | 62102      | SAHUKA T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 1.0210 | 11.231 | 62202 HASILPUR T-211.000                                 | 6 1.0009             | 11.010     |
|   | 62203      | HASILPUR T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0043 | 11.047 | 62204 T-4 11.000                                         | 6 0.9825             | 10.808     |
|   | 62211      | CHUNAW T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 1.0057 | 11.062 | 62301 CHISTIAN T-111.000                                 | 6 0.9799             | 10.779     |
|   | 62302      | CHISTIAN T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0083 | 11.092 | 62303 CHISTIAO T3 11.000                                 | 6 1.0124             | 11,136     |
|   | 62321      | DHRANWALA-T111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9974 | 10.971 | 62322 DHRANWALA-T211.000                                 | 6 0.9974             | 10.971     |
|   | 62381      | т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9798 | 10.778 | 62391 T-1 11.000                                         | 6 0.9878             | 10.866     |
|   | 62,392     | т-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9878 | 10.866 | 62501 MAN-KOT T-1 11.000                                 | 6 0, 9890            | 10 878     |
|   | 62502      | MAN-KOT T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9890 | 10.878 | 64191 L. SOHAN T-1 11.000                                | 6 1 0064             | 11 070     |
|   | 64211      | K.P.TOMI T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9901 | 10.891 | 64212 K.P.TOMT T-211,000                                 | 6 0 9865             | 10 852     |
|   | 64621      | NOORSAR T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9907 | 10.898 | 64622 NOORSAR T-2 11 000                                 | 6 1 0275             | 11 303     |
|   | 64821      | MNCHNBAD T1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9986 | 10.985 | 64822  T-2 11 000                                        | 6 1 0001             | 11 001     |
|   | 64881      | T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 0.9873 | 10.860 | 64882 T = 2 11 000                                       | 6 1 013/             | 11 1/8     |
|   | 64891      | т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1.0162 | 11,179 | 64892 T = 2 11 000                                       | 6 1 0162             | $11 \ 170$ |
|   | 64911      | MCLD.GNJ T1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0084 | 11.093 | 64912 MCLD GNG T-2                                       |                      | TT'T12     |
|   | 65012      | HARONABD T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9984 | 10.982 | 65013 HARONARD T-111 000                                 | 6 0 9984             | 10 082     |
|   | 65014      | HARONARD $T = 311,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 0 9979 | 10 977 | $65121$ EAOTEWLT_T1 11 000                               | 6 1 0224             | 10.902     |
|   | 65122      | FAOTRWLT-T2 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0234 | 11 257 | $65191 T_1$ 11 000                                       | 6 1 0214             | 11, 207    |
|   | 65192      | $T_{-2}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1 0214 | 11 236 | $65211 \pm 007$ APA S T1                                 | 0 1.0214             | 11.230     |
|   | 65212      | FORTABAST-2 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0142 | 11 156 | 70001  MTANCHNU T1 11 000                                | 0 1.0100             | 11 540     |
|   | 70002      | MTANCHNU $T = 211,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1 0309 | 11 340 | 70001 MIANCHNU T. 211 000                                | 6 1 0102             | 11.049     |
|   | 70011      | CHAK = 83 = T1 - 11 - 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6 1 0157 | 11 170 | 70000 MIANCHNO $1-311,000$                               | 0 1.0195             | 11.212     |
|   | 70061      | H STONAT T $_{-111}$ 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | 10 805 | 70012 CHAR-03-12 11.000<br>70062 H STDNAT T 211 000      | 0 1.0137             |            |
|   | 70101      | $K_{ACHAKHU}$ T=111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 0 0877 | 10 861 | $70002 \Pi$ SIDNAL 1-211.000<br>70102 KACHARUU T 211.000 |                      | 10 964     |
|   | 70102      | $K_{A}$ CHAKHU $T_{2}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6 0 0056 | 10.004 | 70102 KACHAKHU I-211.000<br>70201 KUANEWAL T 111.000     | 0 0.98//             | 11 053     |
|   | 70203      | $\frac{1}{12} \frac{1}{12} \frac$ | 6 0 0084 | 10,991 | 70201 KMANEWAL $1-111.000$                               | 0 1.0048             | 10 000     |
|   | 70202      | KHANEWAL I-ZII.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0007 | 11 000 | 70203 KHANEWAL 1-311.000                                 | ь U.9989<br>с 1 0207 | TO'A88     |
|   | 10201      | KADIKWLA I-III.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0 I.0082 | TT*020 | 10307 KARIKMFU I-STT.000                                 | 6 I.U307             | 11.338     |

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2024-WITH.txt 6 0.9782 10.761 70321 MP PAHOR T-111,000 6 0.9804 10.784 70303 KABIRWLA T-311.000 6 1.0041 11.045 6 0.9948 10.943 70322 MP PAHOR T-211.000 70401 GARHMORE T-111.000 6 1.0076 11.083 70421 B-BANGLA T-111.000 6 0.9958 10.953 70402 GARHMORE T-211.000 70501 JEHANIAN T-111.000 6 0.9972 10.969 70502 JEHANIAN T-211.000 6 1.0255 11.281 70601 CHAK.211 T-111.000 6 0.9937 10.930 6 1.0167 11.183 70503 JEHANIAN T-311.000 6 1.0291 11.320 70603 CHAK 211 T-311.000 6 1.0142 11.156 70602 CHAK 211 T-211.000 70701 MAILSI T-1 11.000 6 1.0381 11.419 70702 MAILSI T-2 11.000 6 1.0381 11.419 6 0.9820 10.802 70703 MAILSI T-3 11.000 6 1.0343 11.377 70751 MUKHDM.R T-111.000 70752 MUKHDM.R T-211.000 6 0.9690 10.659 71101 BASTIMLK T-111.000 6 1.0148 11.163 6 1.0128 11.141 71102 BASTIMLK T-211.000 6 1.0128 11.141 71103 BASTIMLK T-311.000 6 0.9789 10.768 71111 т-1 11.000 6 0.9831 10.814 71112 т-2 11,000 71151 MIRAN P T-1 11.000 6 1.0091 11.100 71152 MIRAN P T-2 11.000 6 1.0091 11.100 71201 LODHRAN T-1 11.000 6 1.0430 11.472 6 1.0430 11.472 71202 LODHRAN T-2 11.000 71203 LODHRAN T-3 11.000 6 0.9894 10.883 6 1.0480 11.528 71251 LART-1 11.000 71252 LAR T-2 11.000 6 0.9894 10.883 71301 BU.JADID T-111.000 6 1.0218 11.240 6 1.0461 11.507 71302 BU.JADID T-211.000 6 0.9890 10.879 71401 BHAWALPR T-111.000 6 1.0447 11.492 71403 BHAWALPR T-311.000 6 1.0320 11.352 71402 BHAWALPR T-211.000 6 1.0239 67.576 71405 BWP 66.000 71411 T-1 11.000 6 1.0078 11.085 71412 T-2 11.000 6 1.0078 11.085 71451 BP CANTT T-111.000 6 1.0221 11.244 71452 BPCANTT T-2 11.000 71453 T-3 11.000 6 1.0280 11.308 6 1.0221 11.244 6 1.0499 11.549 71471 KARORPCA T-111.000 6 1.0499 11.549 71472 KARORPCA T-211.000 71491 DUNYAPUR T-311.000 6 1.0385 11.423 71473 KARORPCA T-311.000 6 1.0369 11.405 71492 DUNYAPUR T-411.000 6 1.0385 11.423 71501 SAMASATA T-111.000 6 0.9631 10.595 11.000 6 0.9631 10.595 6 0.9456 10.402 71502 SAMASATA T-211.000 71531 T-1 71591 MUB-PUR-T1 11.000 6 0.9668 10.635 71532 T-2 11.000 6 0.9386 10.325 71592 MUB-PUR-T2 11.000 6 0.9668 10.635 71601 LIAQATPR T-111.000 6 0.9579 10.537 6 1.0073 11.080 71702 AHMDPR.E T-211.000 71602 LIAQATPR T-211.000 6 0.9579 10.537 71704 AHMDPR.E T4 11.000 71703 AHMDPR.E T-311.000 6 0.9963 10,960 6 0.9971 10.968 71801 FEROZA T-1 11.000 6 1.0366 11.403 71802 FEROZA T-2 11.000 6 1.0411 11.453 6 1.0439 71851 KHANBELA T-111.000 6 0.9684 10.652 71852 KHANBELA T-2 71853 T-3 11.000 6 0.9795 10.775 72001 KHANPUR T-1 11.000 6 1.0310 11.341 6 0.9648 10.613 72003 KHANPUR T-3 11.000 6 0.9779 10.757 72002 KHANPUR T-2 11.000 72101 MWQRSHIA T-111.000 72102 MWQRSHIA T2 11.000 6 1.0533 11.586 6 0.9783 10.761 6 1.0066 11.073 72111 T-1 11.000 6 1.0076 11.083 72103 T-3 11.000 6 1.0033 11.036 72201 R.Y.KHAN T-111.000 6 1.0096 11.106 72112 T-2 11.000 6 1.0149 11.164 72202 R.Y.KHAN T-211.000 6 0.9728 10.701 72203 R.Y.KHAN T-311.000 6 0.9975 10.972 72251 R.Y.KHN2 T-111.000 6 0.9837 10.820 72204 T-4 11.000 6 0.9733 10.706 6 1.0138 11.152 72253 Т-3 11.000 72252 R.Y.KHN2 T-211.000 72292 T-2 11.000 6 0.9850 10.835 6 0.9850 10.835 72291 T-1 11.000 72302 SADIQABD T-211.000 6 1.0172 11.190 6 1.0172 11.190 72301 SADIQABD T-111.000 6 1.0317 11.349 6 1.0203 11.224 72303 SADIOABD T-311.000 11.000 72304 LALPIR 72311 WALANA T-1 11.000 6 1.0023 11.025 72312 WALANA T-2 11.000 6 1.0075 11.083 72352 NAWAZAB T-2 11.000 6 1.0136 11.150 72351 NAWAZ T-1 11.000 6 0.9933 10.926

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|            |            |                                                                                                                                                     |          | 20       | 024-V | √ITH.t | xt                 |         |          |
|------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-------|--------|--------------------|---------|----------|
| · .        | 72353 T-3  | 11.000                                                                                                                                              | 6 1.0167 | 11.184   |       | 72401  | J.D.WALI T-111.000 | 6 0.975 | 8 10.734 |
|            | 72402 JDWA | ALI T-2 11.000                                                                                                                                      | 6 1.0072 | 11,079   |       | 72403  | J D WALI T-311.000 | 6 1.021 | 7 11.238 |
|            | 72501 MN.I | KH.RD T-111.000                                                                                                                                     | 6 1.0017 | 11.019   |       | 72502  | MN.KH.RD T-211.000 | 6 0.997 | 0 10.967 |
|            | 72503 MN.1 | <h.rd t-311.000<="" th=""><th>6 1.0017</th><th>11.019</th><th></th><th>72551</th><th>WAP TO T-1 11.000</th><th>6 1.022</th><th>2 11.244</th></h.rd> | 6 1.0017 | 11.019   |       | 72551  | WAP TO T-1 11.000  | 6 1.022 | 2 11.244 |
|            | 72552 WAPE | DA TO T-211.000                                                                                                                                     | 6 0.9957 | 10.953   |       | 72554  | т-3 11.000         | 6 0.988 | 9 10.878 |
|            | 72601 MN.I | 35.RD T-111.000                                                                                                                                     | 6 1.0205 | 11.225   |       | 72602  | MN.BS.RD T-211.000 | 6 0,982 | 7 10.809 |
|            | 72603 MN.E | 3S.RD T-311.000                                                                                                                                     | 6 1.0205 | 11.225   | · .   | 72604  | т-4 11.000         | 6 0.986 | 0 10.846 |
| •          | 72611 PNJE | з HSG T-111.000                                                                                                                                     | 6 1.0030 | 11.032   |       | 72612  | PNJB HSG T-211.000 | 6 1.003 | 0 11.032 |
| •          | 72621 BUC  | H VLS T-111.000                                                                                                                                     | 6 1.0129 | 11.141   |       | 72651  | O BAGH T-1 11.000  | 6 0.971 | 8 10.690 |
|            | 72652 O BA | AGH T-2 11.000                                                                                                                                      | 6 0.9778 | 10.756   |       | 72691  | T-1 11.000         | 6 0.979 | 8 10.778 |
|            | 72692 T-2  | 11.000                                                                                                                                              | 6 0.9798 | 10.778   |       | 72701  | MLN-IND T-1 11.000 | 6 1.017 | 1 11.188 |
|            | 72702 MLN- | -IND T-2 11.000                                                                                                                                     | 6 1.0085 | 11,093   |       | 72703  | MLN-IND T-3 11.000 | 6 1.004 | 0 11.044 |
|            | 72731 SUR: | MNI T-111.000                                                                                                                                       | 6 1.0218 | 11.239   |       | 72732  | SURJ MNI T-211.000 | 6 1.008 | 9 11.098 |
|            | 72801 MN.  | VR.RD T-111.000                                                                                                                                     | 6 1.0157 | 11.172   |       | 72802  | MN.VR.RD T-211.000 | 6 1.044 | 3 11.488 |
|            | 72803 MN.  | VR.RD T-311.000                                                                                                                                     | 6 1.0223 | 11.246   |       | 72804  | т-4 11.000         | 6 0.991 | 5 10.907 |
|            | 72851 QAS  | IMPUR T-111.000                                                                                                                                     | 6 1.0237 | 11.260   |       | 72852  | QASIMPUR T-211.000 | 6 1.015 | 3 11.168 |
|            | 72853 QAS  | IMPUR T-311.000                                                                                                                                     | 6 1.0343 | 11.378   |       | 72854  | T-4 11.000         | 6 0.984 | 2 10.826 |
| de la c    | 72871 м.Ј  | RD T-1 11.000                                                                                                                                       | 6 1.0100 | 11.110   |       | 72872  | M.J.RD T-2 11.000  | 6 1.030 | 4 11.334 |
|            | 72881 SHU  | JABAD T-111.000                                                                                                                                     | 6 1.0462 | 11.509   |       | 72882  | SHUJABAD T-211.000 | 6 1.046 | 6 11.512 |
|            | 72883 SHU. | JABAD T-311.000                                                                                                                                     | 6 1.0194 | 11.214   |       | 72891  | J.P.W T-1 11.000   | 6 1.031 | 3 11.345 |
|            | 72892 Ј.Р  | .W T-2 11.000                                                                                                                                       | 6 1.0308 | 11.339   |       | 72893  | J.P.W T-3 11.000   | 6 1.038 | 1 11.419 |
| * .        | 72901 MES  | CO T-1 11.000                                                                                                                                       | 6 0.9960 | 10.956   |       | 72902  | MESCO T-2 11.000   | 6 1.044 | 0 11.484 |
| - 1        | 72903 MES  | со т-3 11.000                                                                                                                                       | 6 1.0153 | 11.168   |       | 73111  | т-1 11.000         | 6 1.007 | 4 11.081 |
|            | 73112 T-2  | 11.000                                                                                                                                              | 6 1.0074 | 11.081   |       | 73201  | GUJRAT.S T1 11.000 | 6 1.020 | 0 11.219 |
| an<br>An a | 73202 GUJI | RAT.S T3 11.000                                                                                                                                     | 6 1.0256 | 11.281   | 1     | 73203  | GUJRAT.S T2 11.000 | 6 1.019 | 2 11.211 |
|            | 73251 LAY  | YAH T-1 11.000                                                                                                                                      | 6 1.0241 | . 11.266 |       | 73252  | LAYYAH T-2 11.000  | 6 1.024 | 1 11.266 |
|            | 73253 LAY  | YAH T-3 11.000                                                                                                                                      | 6 1.0243 | 11.268   |       | 73281  | KBGASHER T-111.000 | 6 1.009 | 2 11.101 |
| 4          | 73282 KBG/ | ASHER T-211.000                                                                                                                                     | 6 1.0105 | 11.116   |       | 73301  | MZFRGARH T-111.000 | 6 0.977 | 7 10.755 |
|            | 73302 MZFI | RGARH T-211.000                                                                                                                                     | 6 0.9768 | 10.745   |       | 73303  | MZFRGARH T-311.000 | 6 0.977 | 7 10.755 |
| ÷.,        | 73312 коти | ADU-0 T-211.000                                                                                                                                     | 6 1.0395 | 11.435   |       | 73313  | KOTADU-0 T-311.000 | 6 1.033 | 3 11.367 |
|            | 73314 КОТИ | ADU-0 T-411.000                                                                                                                                     | 6 1.0272 | 11.299   | 2     | 73321  | N.A.WALI T-211.000 | 6 1.031 | 9 11.350 |
|            | 73322 N.A  | .WALI T-111.000                                                                                                                                     | 6 1.0351 | 11.386   |       | 73323  | т-3 11.000         | 6 1 023 | 4 11.257 |
|            | 73331 S S  | DIN T1 11.000                                                                                                                                       | 6 1.0235 | 11.258   |       | 73332  | S S DIN T2 11.000  | 6 1.001 | 2 11.014 |
|            | 73351 кот  | SULTAN-T111.000                                                                                                                                     | 6 1.0196 | 11.216   |       | 73352  | KOTSULTAN-T211.000 | 6 1.032 | 9 11.362 |
|            | 73361 KAR  | DR L.E-T111.000                                                                                                                                     | 6 0.9941 | 10.935   | · .   | 73362  | KAROR L.E-T2       | 6 0.994 | 1        |
|            | 73381 T-1  | 11.000                                                                                                                                              | 6 1.0185 | 11.204   |       | 73401  | MEHRKHAS T-111.000 | 6 1.005 | 7 11.063 |
|            | 73402 MEHI | RKHAS T-211.000                                                                                                                                     | 6 1.0187 | 11.205   |       | /3403  | MEHRKHAS T-3       | 6 1.019 | 6        |
|            | 73501 DMR  | WALA T-111.000                                                                                                                                      | 6.0.9894 | 10.883   |       | /3502  | DMR WALA T-211.000 | 6 0.974 | 7 10.722 |
|            | 73601 JAT  | OIJNB T-111.000                                                                                                                                     | 6 0.9939 | 10.933   |       | /3602  | JATOIJNB T-211.000 | 6 0.982 | 7 10.810 |
|            | 73603 T-3  | 11.000                                                                                                                                              | 6 0.9841 | 10.826   |       | /3701  | KHRPRSDT T-111.000 | 6 1.007 | 8 11.086 |
|            | 73702 KHPI | RSDT T-2 11.000                                                                                                                                     | 6 1.0113 | 11.124   |       | /3951  | SHA.LND T-1 11.000 | 6 1.007 | / 11.085 |
|            | 73952 SHA  | LND T-2 11.000                                                                                                                                      | 6 0.9813 | 10.794   |       | /4001  | TAUNSA T-1 11.000  | 6 0.981 | 2 10.793 |
|            | 74002 TAU  | NSA T-2 11.000                                                                                                                                      | 6 0.9812 | 10.793   |       | 74003  | T-3 11.000         | 6 1.008 | 8 11.097 |

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| 74111  | T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6      | 0.9658  | 10.623 | 74121 T-1 11.000                                     | 6 1.0021 11.023          |
| 74131  | T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6      | 1.0021  | 11.023 | 74141 T-1 11.000                                     | 6 1.0146 11.161          |
| 74161  | т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6      | 1.0123  | 11.136 | 74401 CHOKMNDA T-111.000                             | 6 1.0229 11.252          |
| 74402  | CHOKMNDA T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6      | 1.0174  | 11.191 | 74502 CHAUBARA T-211.000                             | 6 1.0171 11.188          |
| 74562  | CHOKAZAM T1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6      | 1.0273  | 11.300 | 74563 T-3 11.000                                     | 6 1.0053 11.058          |
| 74591  | KHANGARH T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6      | 1.0045  | 11.049 | 74592 KHANGARH T-211.000                             | 6 1.0088 11.096          |
| 74602  | D.G.KHAN T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6      | 1.0047  | 11.052 | 74603 D.G.KHAN T-311.000                             | 6 1.0078 11.086          |
| 74604  | D.G.KHAN T-411.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6      | 0.9917  | 10.909 | 74641 T-1 11.000                                     | 6 0.9874 10.862          |
| 74651  | KOTCHUTA T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6      | 0.9849  | 10.834 | 74652 KOTCHUTA T-211.000                             | 6 0.9849 10.834          |
| 74653  | KOTCHUTTA T311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6      | 0.9893  | 10.883 | 74691 CHOTI T-1 11.000                               | 6 0.9929 10.922          |
| 74701  | ROJHAN T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6      | 1.0013  | 11.015 | 74731 T-1 11.000                                     | 6 0.9996 10.996          |
| 74732  | т-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6      | 0.9893  | 10.883 | 75111 T-1 11.000                                     | 6 1.009/ 11.10/          |
| 75112  | T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6      | 1.0018  | 11.020 | 75901 SKHISRWR T-111.000                             | 6 0.9906 IU.896          |
| 75902  | SKISRWR T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6      | 0.9759  | 10.735 | 76111 T-1 11.000                                     | 6 1.0060 11.066          |
| //112  | T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6      | 1.0060  | 11.066 | 77811 YAZMAN-T-1 11.000                              | 6 0.9939 10.933          |
| //812  | YAZMAN T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6      | 0.9939  | 10.933 | 77911 MAROOT T1 11.000                               | 6 1.0351 11.386          |
| 77912  | MAROOT 1-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6      | 1.0240  | 11.264 | 78311 FATEHPUR 1-111.000                             | 6 0.9889 10.878          |
| 78312  | FALEPUR 1-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6      | 1.0030  | 11.033 | 78313 1-3 11.000                                     | $6 \pm 0.0325 \pm 0.358$ |
| 78401  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6      | 0.9955  | 10.950 |                                                      | 6 1.0250 11.274          |
| 79091  | D.G.K.II $I-III.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6      | 1.0239  | 11.203 | 79092 D.G.K.II 1-2II.000                             |                          |
| 79111  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6      | 0.9732  | 10.705 | 79112 1 - 2 11.000                                   | 6 0.9752 10.705          |
| 7930L  | $\begin{array}{c} JAMPUR  I - L  II \cdot UUU \\ FAZAL DUD  T  111  000 \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6      | 0.9787  | 10.700 | 79302 JAMPUR 1-2 11.000                              | 6 0 0057 10 052          |
| 79551  | $\begin{array}{c} FAZALPUK  I -III .000 \\ DATANDUD  T  111 .000 \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0      | 1 01033 | 11 200 | 79552 FAZALPUR T-211,000<br>70512 PAJANDUD T-211 000 | 6 1 0182 11 200          |
| 70512  | RAJANPUK I-III.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6      | 1.0102  | TT.200 | 79312 RAJANPUR 1-211.000<br>70741 UCU SUDE T_211 000 | 6 1 0008 11 009          |
| 79713  | $\frac{1}{100} = \frac{1}{100} = \frac{1}$ | 6      | 0.9980  | 10 773 | 79741 UCH. SHRF $1-211.000$                          | 6 1 0061 11 067          |
| 79811  | A = D + D + D + D + D + D + D + D + D + D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6      | 0.9734  | 10 923 | 79812 ALTELLE T-2 11 000                             | 6 1 0099 11 109          |
| 79813  | ALT FUR $T=3$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6      | 1 0069  | 11 075 | 79821 T = 1 11 000                                   | 6 0 9827 10 810          |
| 79822  | T-2 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ĥ      | 0.9827  | 10.810 | 79841 H.R. KAN T1 11.000                             | 6 1.0351 11.387          |
| 79842  | T-2 $11-000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | . 6    | 1.0037  | 11.041 | 79904 T-4 11.000                                     | 6 0.9749 10.724          |
| 79961  | FRT MNRO T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ĩ      | 1.0099  | 11.109 | 79962 T-2 11.000                                     | 6 1.0097 11.107          |
| 732512 | LSM-132KV 132.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | õ      | 1.0252  | 135.32 |                                                      |                          |

## 2025-WITHOUT.txt

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PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS(R)E TUE, JAN 26 2021 11:50 MEPCO-2025-REVISED-DIIP-WITHOUT

BUSES WITH VOLTAGE GREATER THAN 2.0000:

BUS# X-- NAME --X BASKV AREA V(PU) V(KV) BUS# X-- NAME --X BASKV AREA V(PU) V(KV)

\* NONE \*

BUSES WITH VOLTAGE LESS THAN 1.7000:

|   | BUS# | X NAME>      | <b>BASKV</b> | AREA | V(PU)  | V(KV)  | BUS# | <sup>t</sup> X NAME | X BASKV   | AREA V(PU) | V(KV)  |
|---|------|--------------|--------------|------|--------|--------|------|---------------------|-----------|------------|--------|
|   | 401  | т-3          | 11.000       | 6    | 0.9943 | 10.938 | 502  | ! T-3               | 11.000    | 6 0.9965   | 10.961 |
|   | 529  | PARCO        | 220.00       | 6    | 1.0386 | 228.50 | 5282 | FATMA ENE           | RGY132.00 | 6 1.0200   | 134.64 |
|   | 5283 | FAZAL CLOTH  | 132.00       | 6    | 1.0193 | 134.55 | 6030 | ) QADIRABD          | 132.00    | 6 1.0256   | 135.38 |
|   | 6050 | BNGAHYAT     | 132.00       | 6    | 1.0069 | 132.91 | 6070 | ) YOUSFWLA          | 132.00    | 6 1.0184   | 134.42 |
|   | 6080 | SAHIWALN     | 132.00       | 6    | 1.0102 | 133.35 | 6090 | ) SAHIWAL-O         | 132.00    | 6 1,0095   | 133.25 |
|   | 6095 | SAHIWAL III  | 132.00       | 6    | 1.0065 | 132.86 | 6100 | ) NOORPUR           | 132.00    | 6 1.0024   | 132.32 |
|   | 6101 | PAKPATTAN-2  | 132.00       | 6    | 0.9965 | 131.54 | 6120 | ) PAKPATAN          | 132.00    | 6 0.9787   | 129.18 |
|   | 6130 | HARAPPA      | 132.00       | 6    | 0.9915 | 130.87 | 6140 | ) CHCHWTNI          | 132.00    | 6 0.9950   | 131.34 |
|   | 6149 | KASOWAL132   | 132.00       | 6    | 0.9918 | 130.92 | 6150 | SH.FAZAL            | 132.00    | 6 0.9659   | 127.50 |
|   | 6160 | BUREWALA     | 132.00       | 6    | 0.9529 | 125.78 | 6162 | BREWLA-O            | 132.00    | 6 0.9446   | 124.68 |
| • | 6163 | GAGOO        | 132.00       | 6    | 0.9456 | 124.82 | 6169 | VEHARI-N            | 132.00    | 6 0.9911   | 130.83 |
|   | 6170 | VEHARI-O     | 132.00       | . 6  | 0.9874 | 130.33 | 617  | LUDDEN              | 132.00    | 6 0.9696   | 127.99 |
|   | 6178 | KARAMPUR     | 132.00       | 6    | 0.9571 | 126.33 | 6179 | MACHIWAL            | 132.00    | 6 0.9660   | 127.51 |
|   | 6180 | ARIFWALA     | 132.00       | 6    | 0.9539 | 125.92 | 6183 | . ARIFWALA-         | 2 132.00  | 6 0.9538   | 125.90 |
|   | 6182 | KAMIRWALA    | 132.00       | 6    | 0.9721 | 128.32 | 6190 | BWL.NAGR            | 132.00    | 6 0.9568   | 126.29 |
|   | 6191 | НОТА         | 132.00       | 6    | 0.9502 | 125.43 | 6200 | QABULA              | 132.00    | 6 0.9441   | 124.63 |
|   | 6210 | SAHUKA       | 132.00       | 6    | 0.9495 | 125.33 | 6220 | HASILPUR            | 132.00    | 6 0.9745   | 128.63 |
|   | 6221 | CHUNAWALA    | 132.00       | 6    | 0.9727 | 128.40 | 6230 | CHISTIAN-           | 0 132.00  | 6 0.9717   | 128.27 |
|   | 6231 | CHSTAN-N     | 132.00       | 6    | 0.9774 | 129.02 | 6232 | DHARWALA1           | 32 132.00 | 6 0.9632   | 127.14 |
|   | 6238 | BUKHSHAN 132 | 2132.00      | 6    | 0.9738 | 128.54 | 6239 | CHISTIAN            | 132132.00 | 6 0.9754   | 128.76 |
|   | 6250 | MAN-KOT      | 132.00       | 6    | 1.0015 | 132.19 | 6410 | HASILPUR            | 66.000    | 6 0.9745   | 64.314 |
|   | 6419 | L.SOHANRA    | 132.00       | 6    | 0.9950 | 131.34 | 6420 | BEST-GREE           | N 132.00  | 6 1.0122   | 133.61 |
|   | 6421 | K.P.TOMI     | 132.00       | 6    | 0.9804 | 129.41 | 6422 | APPOLO-SO           | LAR132.00 | 6 1.0106   | 133.40 |
|   | 6462 | NOORSAR      | 132.00       | 6    | 0.9684 | 127.83 | 6482 | MNCHNBAD            | . 132.00  | 6 0.9392   | 123.97 |
|   | 6488 | BWL NAGAR-2  | 132.00       | 6    | 0.9625 | 127.05 | 6489 | DONGA BNG           | A 132.00  | 6 0.9567   | 126.29 |
|   | 6491 | MCLD.GNJ     | 132.00       | 6    | 0.9346 | 123.37 | 6501 | HARONABD            | 132.00    | 6 0.9601   | 126.73 |
|   | 6512 | FAQIRWLI     | 132.00       | 6    | 0.9582 | 126.48 | 6519 | KHICHIWAL           | A 132.00  | 6 0.9555   | 126.12 |
|   | 6521 | EODTARAC     | 132 00       | 6    | 0 9610 | 126 85 | 6666 | MULTAN-N            | 132 00    | 6 1 0195   | 134 57 |

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|      |       |              |         |    | Ì | )      |         |       |              |        |   |        |        |
|------|-------|--------------|---------|----|---|--------|---------|-------|--------------|--------|---|--------|--------|
|      |       |              |         |    |   |        | 2025 67 | TUQUT |              |        |   |        |        |
| •    | 7000  | NTANCIAN     | 1 2 2 4 | 00 | ~ | 0 0720 | 170 44  | 7001  | CUAK 02 122  | 122 00 | 6 | 0 0000 | 120 52 |
|      | 7000  | MIANCHNU     | 132.0   | 00 | 0 | 0.9730 | 122.07  | 7001  |              | 132.00 | 6 | 0.9000 | 126 06 |
|      | 7002  | KASSOWAL     | 132.1   | 00 | 6 | 1.0066 | 126.04  | 7000  | HEAD SIDHNAL | 122.00 | 6 | 0.9330 | 128.00 |
|      | 7010  | КАСНАКНО     | 132.0   | 00 | 0 | 0.9010 | 120.94  | 7020  | KHANEWAL     | 132.00 | 0 | 0.9720 | 120.40 |
| 1 e. | 7029. | FAUJ1-K      | 132.0   | 00 | 6 | 1.0000 | 132.00  | 7030  | KABIKWLA     | 132.00 | 0 | 0.9651 | 127.40 |
| •    | 7032  | MP.PAHOR     | 1.22.0  | 00 | 6 | 0.9544 | 125.99  | 7040  | GARHMORE     | 132.00 | 0 | 0.9005 | 127.37 |
|      | 7042  | B-BANGLA     | 132.0   | 00 | 6 | 0.9520 | 125.66  | 7050  | JEHANIAN     | 132.00 | 0 | 0.9627 | 127.07 |
| ÷.   | 7060  | CHAK.211     | 132.0   | 00 | 6 | 0.9507 | 125.50  | 7070  | MAILSI       | 132.00 | 0 | 0.9605 | 120.79 |
| •    | /0/5  | MUKHDM R     | 132.0   | 00 | 6 | 0.9634 | 127.17  | /100  | P.GAIB-1     | 132.00 | 6 | 1.0143 | 133.88 |
|      | 7109  | P.GAIB-2     | 132.0   | 00 | 6 | 0.9930 | 131.08  | /110  | BASTIMLK     | 132.00 | 6 | 0.9944 | 131.27 |
|      | 7111  | KHANEWAL-2   | 132.0   | 00 | 6 | 0.9759 | 128.81  | 1112  | MIRAN PUR    | 132.00 | 6 | 0.9890 | 130.54 |
|      | 7120  | LODHRAN      | 132.0   | 00 | 6 | 1.0101 | 133.33  | /125  | LAR          | 132.00 | 6 | 0.9858 | 130.12 |
|      | 7130  | BU.JADID     | 132.0   | 00 | 6 | 1.0034 | 132.44  | /138  | BWPN-2       | 132.00 | 6 | 1.0009 | 132.12 |
| ÷.,  | 7139  | B.W.P-N      | 132.0   | 00 | 6 | 1.0359 | 136.74  | /140  | BHAWALPR     | 132.00 | 6 | 1.0211 | 134.79 |
|      | 7141  | LODHRAN-2    | 132.0   | 00 | 6 | 1.0176 | 134.32  | /145  | BPUR CANTT   | 132.00 | 6 | 1.0289 | 135.81 |
|      | 7146  | CREST-ENERGY | (132.)  | 00 | 6 | 1.0200 | 134.64  | /14/  | KARORPCA     | 132.00 | 6 | 0.9808 | 129.46 |
|      | 7148  | QAD-SOL-I    | 132.0   | 00 | 6 | 1.0181 | 134.39  | /149  | DUNYAPUR     | 132.00 | 6 | 0.9668 | 127.61 |
| 1.   | 7150  | SAMASATA     | 132.0   | 00 | 6 | 0.9911 | 130.83  | /153  | KOT KHALIFA  | 132.00 | 6 | 0.9662 | 127.54 |
|      | 7159  | MUB-PUR      | 132.0   | 00 | 6 | 0.9795 | 129.29  | /160  | LIAQATPR     | 132.00 | 6 | 0.9708 | 128.14 |
|      | 7170  | AHMDPR.E     | 132.0   | 00 | 6 | 0.9/43 | 128.61  | /1/5  | RYK-PP       | 132.00 | 6 | 1.0100 | 133.32 |
| 1.4  | 7180  | FEROZA       | 132.0   | 00 | 6 | 1.0090 | 133.19  | /185  | KHANBELA     | 132.00 | 6 | 0.9885 | 130.48 |
|      | /190  | HAMZA-PP     | 132.0   | 00 | 6 | 1.0000 | 132.00  | 7200  | KHANPUR      | 132.00 | 6 | 1.0046 | 132.01 |
|      | 7210  | MWQRSHIA     | 132.0   | 00 | 6 | 1.01/3 | 134.28  | /211  | VEHARI-Z     | 132.00 | 6 | 0.9908 | 130.78 |
|      | /220  | R.Y.KHAN     | 132.0   | 00 | 6 | 0.9942 | 131.23  | 7221  | RYK-NEW      | 132.00 | 6 | 1.0231 | 133.05 |
|      | 7225  | R.Y.KHN2     | 132.0   | 00 | 6 | 0.9859 | 130.14  | /229  | RYK-3        | 132.00 | 6 | 0.9961 | 131.49 |
|      | 7230  | SADIQABD     | 132.0   | 00 | 6 | 1.0135 | 133.78  | /231  | SANJARPUR    | 132.00 | 6 | 1.01/8 | 134.35 |
|      | 7232  | JDW II USM F | 2132.0  | 00 | 6 | 1.0300 | 135.96  | /235  | NAWAZABD     | 132.00 | 6 | 1.0187 | 134.4/ |
|      | 7237  | RIE          | 132.0   | 00 | 6 | 1.0106 | 133.40  | 7240  | J.D.WALL     | 132.00 | 6 | 0.9995 | 131.94 |
|      | 7250  | MN.KH.RD     | 132.0   | 00 | 6 | 1.0159 | 134.10  | /255  | WAPDATWN     | 132.00 | 6 | 1.0029 | 132.38 |
|      | 7260  | MN.BS.RD     | 132.0   | 00 | 6 | 0.9959 | 131.46  | 7261  | PUNJAB HOSNO | 122.00 | 6 | 1.0116 | 122.04 |
|      | /262  | BUCH VILLAS  | 132.0   | 00 | 6 | 0.9931 | 131.10  | /265  | QASIMBGH     | 132.00 | 6 | 1.0073 | 132.90 |
|      | /269  | RAWAN ROAD   | 132.0   | 00 | 6 | 1.0045 | 132.59  | /2/0  | MLN-IND      | 132.00 | 0 | 0.9948 | 131.32 |
|      | 1212  | COCA COLA    | 132.0   | 00 | 6 | 0.9948 | 131.32  | 1213  | SURAJ MIANI  | 132.00 | 6 | 0.9935 | 131.13 |
|      | /2/5  | C.T.MILL     | 132.0   | 00 | 6 | 0.9940 | 131.21  | /2//  | APL          | 132.00 | 6 | 0.9712 | 128.20 |
|      | /280  | MN.VR.RD     | 132.0   | 00 | 6 | 1.0078 | 133.03  | /285  | QASIMPUR     | 132.00 | 6 | 1.0088 | 133.10 |
|      | 7287  | M.JAILRD     | 132.0   | 00 | 6 | 0.9923 | 130.98  | /288  | SHUJABAD     | 132.00 | 6 | 0.9923 | 130.98 |
|      | 7289  | JALALPWL     | 132.0   | 00 | 6 | 0.9682 | 127.80  | 7290  | MESCO        | 132.00 | 6 | 0.9949 | 122 41 |
|      | 7300  | КАРСО        | 132.0   | 00 | 6 | 1.0490 | 138.47  | /311  | MZFRGARH-Z   | 132.00 | 6 | 1.0031 | 132.41 |
|      | 7320  | GUJRAT.S     | 132.0   | 00 | 6 | 1.0223 | 134.94  | /325  | LAYYAH       | 132.00 | 6 | 1.0201 | 122 20 |
|      | 7328  | KBGASHER     | 132.0   | 00 | 6 | 1.0220 | 134.91  | /330  | MZFRGARH     | 132.00 | 6 | 1.0015 | 132.20 |
|      | 7331  | KOTADU-O     | 132.0   | 00 | 6 | 1.0471 | 138.21  | 1332  | N.A.WALI     | 132.00 | 6 | 1.0318 | 130.20 |
|      | 7333  | S.S.DIN      | 132.0   | 00 | 6 | 1.0045 | 132.59  | /334  | M GARH NEW   | 132.00 | 6 | 1.0035 | 132.46 |
|      | 7335  | KOTSULTAN    | 1.32.   | 00 | 6 | 1.0308 | 136.07  | /336  | KAROR L.E    | 132.00 | 6 | 1.0054 | 132.71 |
|      | 7337  | EPGL         | 132.    | 00 | 6 | 1.0200 | 134.64  | 7339  | DUMMY IND    | 132.00 | 6 | 1.0029 | 132.39 |

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|-----|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|---------|------|--------------|---------------|--------|----------------------|---------|
|     | 7340           | MEHRKHAS 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | L32.00 6   | 0.9470 | 125.00  |      | 7350         | DMR WALA      | 132.00 | 6 0.9341             | 123.30  |
|     | 7360           | JATOIJNB 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | L32.00 6   | 0.9184 | 121.23  |      | 7370         | KHRPRSDT      | 132.00 | 6 0.9215             | 121.64  |
|     | 7395           | SHAD.LND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 132.00 6   | 1.0149 | 133.97  |      | 7400         | TAUNSA        | 132.00 | 6 1.0031             | 132.41  |
|     | 7411           | MTANCHANU-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 132.00 6   | 0.9716 | 128.26  |      | 7412         | P.GHAIB132KV  | 132.00 | 6 1.0124             | 133.64  |
|     | 7413           | SHAH JAMAI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 132.00 6   | 1.0035 | 132.46  |      | 7414         | KOT MTTHAN    | 132.00 | 6 1.0159             | 134.10  |
|     | 7416           | DRAWAR MORE 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 132.00 6   | 1.0054 | 132.71  |      | 7435         | PARCO         | 132.00 | 6 1.0104             | 133.37  |
|     | 7436           | $T - P \Delta R C O$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 132,00 6   | 1.0104 | 133.37  |      | 7440         | CHOKMNDA      | 132.00 | 6 1.0339             | 136.47  |
|     | 7442           | т-лнтм                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            | 1 0392 | 137 17  |      | 7443         |               | 132 00 | 6 1 0391             | 137 16  |
|     | 7450           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 132.00 6   | 1 0290 | 135 87  |      | 7456         | CHOKAZAM      | 132 00 | 6 1 0174             | 134 29  |
|     | 7450           | KHANGARH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 132.00 6   | 0 9691 | 127 93  |      | 7460         |               | 132.00 | 6 1 0035             | 132 46  |
|     | 7455           | MDC-DCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 132.00 - 6 | 1 0096 | 133 27  |      | 7463         |               | 132.00 | 6 1 0044             | 122 57  |
|     | 7402           | ПОС-ОСК                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 132.00 6   | 0 0073 | 131 6/  |      | 7465         |               | 132.00 | 6 1 0002             | 132.07  |
|     | 7404           | T-ATM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 132.00 6   | 1 0025 | 132 33  |      | 7467         |               | 132.00 | 6 1 0025             | 132.02  |
|     | 7400           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 132.00 0   | 1 0053 | 132.33  |      | 7407         |               | 132.00 | 6 1 0316             | 126 17  |
|     | 7403           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 122.00 0   | 0.0057 | 121 /2  |      | 7470         |               | 122.00 | 6 1.0200             | 125 06  |
|     | 7511           | VAJALIJZ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | 1 0040 | 127 52  |      | 7580         |               | 122.00 | 6 1 0092             | 122 00  |
|     | 7500           | KUT SAMADA .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | 1 0070 | 122.00  |      | 7500         |               | 122.00 | $0 \pm 0000$         | 125.09  |
|     | 7390           | SKHISKWK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 132.00 0   | 1 0070 | 122 04  |      | 7030         | L. SUHANKALSZ | 122.00 | $0 \pm .0220$        | 122 05  |
|     | 7701           | BAHAWALPUK-Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 132.00 0   | 1.00/9 | 133.04  |      | 7000         |               | 152.00 | 6 1.0079             |         |
|     | 7/91           | MAROUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            | 0.9022 | 122 17  |      | 7000         | ROTADUU       | 66.000 | 0 1.0419             | 00./05  |
|     | 7042           | FATEHPUR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | 1 0202 | 132.17  |      | 7040         | RANGPUR       | 122 00 | 6 1.0220<br>6 1.0284 | 07.430  |
|     | 7842           | I-RANGPR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | 1 0014 | 122 10  |      | 7011         |               | 132.00 | 0 1.0204<br>C 0.0001 | 133./3  |
|     | 7909           | D.G.KHAN II .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 132.00 0   | 1.0014 | 121 00  |      | 7911         | ARRAY WAHAN   | 132.00 | 6 U.9001             | 127.52  |
|     | 7930           | JAMPUK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 132.00 0   | 0.9992 | 122.50  |      | 7933         | FAZALPUR      | 122.00 | 6 1.005Z             | 132.09  |
|     | 7951           | KAJANPUK .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |        | 135.52  |      | 7909         | INDUS ENERGY  | 122.00 | 6 1.0200             | 134.04  |
|     | 7974           | UCH.SHKF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 132.00 0   | 0.9010 | 120.90  |      | 7901<br>7004 | ALL PUR       | 132.00 | 6 0.9184             | 121.23  |
| 1.1 | 7982           | JAIUI-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 132.00 0   | 0.9137 | 120.01  |      | 7904         | HEAD-RJ-KN    | 132.00 | 0 1.0057             | 132.70  |
|     | 7996           | FURI.MINKU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 132.00 6   | 1.0079 | 133.04  |      | C0301        | QADIKARD 1-1  | 11.000 | 6 1.0134             | 11 245  |
|     | 60302          | QADIRABD 1-2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LL.000 6   |        | 11.140  |      | 60503        |               | 11 000 | 6 1.0223             | 10 967  |
|     | 6020T          | BNGAHYAI I-L.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LL.UUU 6   | 0.9880 | 10.075  |      | 6030Z        | BNGAHYAT I-Z  | 11.000 | 6 0.9880             | 10.867  |
|     | 60303          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | 0.9694 | 10.004  |      | C0001        | SAHIWALN I-I  | 11 000 | 0 0.9594             | LU.334  |
|     | 00002          | SAHIWALN I-Z.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11,000 6   | 0.9594 | 11 101  |      | 60003        |               | 11,000 | 0 1.0100             | 10 974  |
|     | 60901          | SAHWAL-U I-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LL.UUU 0   | 1.0092 | 11.101  |      | C0051        | SAHWAL-U I-Z  | 11.000 | 0 0.9000             | 11 000  |
| • • | 60903          | SAHWAL-U I-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | 1.0092 | 10, 101 |      | C0023T       | SWL III I-I   | 11.000 | 6 1.0063             | 11.009  |
|     | 60952          | SWL IIF I-Z .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | LL.UUU 0   | 0.9779 | 10.757  |      | 61003        |               | 11.000 | 6 1.0009             |         |
|     | 61001          | NUORPUR I-I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | 0.9909 | 10.099  |      | C1011        | NOURPUR I-Z   | 11.000 | 6 0.9603             | 10.705  |
|     | 61012          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11.000 6   | 0.9727 | 10.700  |      | 61201        |               | 11,000 | 6 0.9604             | 10.705  |
|     | 01012<br>61202 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11,000 0   | 0.9790 | 10.709  | 1.1  | 61202        | PARPAIAN T-1  | 11 000 | 6 0 0542             | 10.004  |
| 1   | 61201          | TARPATAN 1-2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 11 000 C   | 0.9003 | 10,004  |      | 61202        | TANTALAN 1-3  | 11 000 | 6 0 0006             | 10.49/  |
|     | 61401          | $\frac{1}{1} \frac{1}{1} TT'000 0   | 1 0014 | TO:202  |      | 61402        | CUCUMENT T 7  | 11 000 | 6 1 0004             | 11 002  |
|     | 01401          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |        | 10 057  |      | 61/01        | T = 1         | 11 000 | 6 0 0704             | 10 772  |
|     | 01403          | $\begin{array}{c} CHCHWINI  I=3. \\ CHCHWINI  T=1^{\prime} \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 1 0020 | 11 042  |      | 61502        |               | 11 000 | 6 1 0020             | 11 042  |
|     | 01201          | SH.FAZAL I-L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11 000 0   | 1 0011 | 11 0043 |      | 61601        | DUDEWALA T 1  | 11 000 | 6 1 0059             | 11 040  |
|     | 01003          | 1-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | TT'000 - 0 | I ULLL | TT'CJC  |      | OTOOT        | DUKEWALA [-1  |        | U 1.U23/             | TT'TCOO |

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|-----|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|-----------------------------|--------|---------------------------------------------------------------------------------|--------|---------|--------|
|     | 61602 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ~      | 0 0000 | 202    | 2-MT                        | THOUT. | txt                                                                             | _      |         |        |
|     | 01002 | BUREWALA 1-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 0.9963 | 10.960 |                             | 61603  | BUREWALA T-311.000                                                              | 6      | 0.9621  | 10.583 |
| 1   | 61621 | BREWLA-0 T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | . 6    | 0.9705 | 10.676 |                             | 61622  | BREWLA-0 T-211.000                                                              | - 6    | 0.9872  | 10.859 |
|     | 61623 | т-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6      | 0.9772 | 10.749 | ÷ +                         | 61631  | GAGOO T-1 11.000                                                                | 6      | 0.9992  | 10.991 |
| 1   | 61632 | GAGOO T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6      | 1.0008 | 11.009 |                             | 61701  | VEHART-0 T-111.000                                                              | 6      | 0.9797  | 10.777 |
|     | 61702 | VEHARI-0 T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 1.0114 | 11 125 |                             | 61703  | VEHART-T-3 11 000                                                               | Ğ      | 0 9874  | 10 862 |
|     | 61751 | LUDDEN T-1 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ğ      | 0 9702 | 10 673 | 1.1                         | 61752  | $LUDDEN T_{-2} 11 000$                                                          | ă      | 0.0088  | 10 087 |
|     | 61781 | $KARAMPUR T_111 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | i i i  | 0 0060 | 10.075 |                             | 61702  | LODDLN = 2 II.000                                                               | 6      | 1. 0057 | 11 007 |
|     | 61701 | T1 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0<br>6 | 0.9900 | 10.500 |                             | 61702  | $T_{2}$                                                                         | 0      | 1.0057  | 11.003 |
|     | C1001 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0      | 0.9020 | 10.000 |                             | 01/92  |                                                                                 | 6      | 0.9626  | 10.588 |
|     | 01001 | ARIFWALA 1-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | b      | 1.0094 | 11.103 |                             | 61802  | ARIFWALA T-211.000                                                              | 6      | 1.0094  | 11.103 |
|     | 01003 | ARIFWALA I-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 0.9690 | 10.659 | $(A_{i})^{(1)} = (1)^{(1)}$ | 61811  | T-1 11.000                                                                      | 6      | 1.0014  | 11.015 |
|     | 61812 | T-2 . 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6      | 1.0014 | 11.015 |                             | 61821  | KAMIRW T-1 11.000                                                               | - 6    | 0.9622  | 10.584 |
|     | 61822 | KAMIR W T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 0.9622 | 10.584 |                             | 61901  | BWL.NAGR T-111.000                                                              | 6      | 0.9588  | 10.546 |
|     | 61902 | т-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6      | 0.9955 | 10,950 |                             | 61903  | BWL.NAGR T-311.000                                                              | 6      | 0.9588  | 10.546 |
|     | 61911 | HOTA T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6      | 0.9830 | 10.813 |                             | 61912  | HOTA T-2 11.000                                                                 | ň      | 1 0124  | 11 137 |
|     | 61913 | T-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6      | 0 9445 | 10 389 |                             | 62001  | OABULA T = 1 11 000                                                             | ă      | 0 9815  | 10 707 |
|     | 62002 | OABULA T-2 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ă      | n 9909 | 10 900 |                             | 62001  | $OABULA T_3 11 000$                                                             | e<br>e | 0.0751  | 10.757 |
|     | 62101 | $SAHUKA T_1 11 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6      | 0.0786 | 10 765 | • • • • • •                 | 62103  | CABULA = 2 11,000                                                               | 6      | 0.9731  | 10.720 |
|     | 62202 | UASTI DUD T 211 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0      | 0,9760 | 10.705 |                             | 62202  | SAHUKA 1-2 11.000                                                               | 0      | 0.9993  | 10.993 |
|     | 62202 | $T_{A} = 11 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0      | 0.9009 | 10.000 |                             | 02203  | HASILPUR 1-311.000                                                              | 6      | 0.9903  | 10.894 |
| ÷,  | 62204 | 1-4 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0      | 0.9695 | 10.665 |                             | 62211  | CHUNAW I-L LL.000                                                               | 6      | 0.9923  | 10.916 |
|     | 6230T | CHISTIAN 1-111,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 0.9582 | 10.540 |                             | 62302  | CHISTIAN $T-211.000$                                                            | 6      | 0.9864  | 10.850 |
|     | 62303 | CHISTIAO T3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 0.9902 | 10.892 |                             | 62321  | DHRANWALA-T111.000                                                              | 6      | 0.9752  | 10.728 |
|     | 62322 | DHRANWALA-T211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 0.9752 | 10.728 |                             | 62381  | т-1 11.000                                                                      | 6      | 0.9591  | 10.550 |
|     | 62391 | т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6      | 0.9687 | 10.655 |                             | 62392  | T-2 11.000                                                                      | 6      | 0.9687  | 10.655 |
|     | 62501 | MAN-KOT T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 0.9909 | 10.900 |                             | 62502  | MAN-KOT T-2 11.000                                                              | · 6    | 0.9909  | 10,900 |
|     | 64191 | L.SOHAN T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 0.9971 | 10.968 |                             | 64211  | K P TOMT T-111 000                                                              | ň      | 0 9757  | 10 733 |
|     | 64212 | K.P.TOMT T-211 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Š      | 0 9738 | 10 712 |                             | 64621  | NOORSAR $T_1$ 11 000                                                            | 6<br>6 | 0 0702  | 10 672 |
|     | 64622 | NOORSAR $T_{-2}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - Ă    | 1 0071 | 11 078 |                             | 64821  | MNCHNRAD $\pm 1$ 11 (00)                                                        | 6      | 0.0747  | 10.072 |
|     | 64822 | $T_{-2}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | i G    | 0 0772 | 10.750 |                             | C4021  | $\begin{array}{c} MINCHNDAD  II  II, OOO \\ T  I  II  OOO \end{array}$          | 0      | 0.9747  | 10.721 |
|     | 61882 | $T_{2}$ $11.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6      | 0.9773 | 10.730 |                             | C4001  | 1-1 11.000                                                                      | 0      | 0.9659  | 10.625 |
|     | 64002 | 1-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0      | 0.9925 | 10.917 |                             | 64891  |                                                                                 | 6      | 0.9931  | 10.925 |
|     | C4012 | 1-2 II.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6      | 0.9931 | 10.925 |                             | 64911  | MCLD.GNJ TI II.000                                                              | 6      | 0.9843  | 10.827 |
|     | 04912 | MCLD GNG I-Z                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6      | 0.9782 |        |                             | 65012  | HARONABD T-211.000                                                              | 6      | 0.9712  | 10.684 |
|     | 62013 | HARONABD T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 0.9712 | 10.684 |                             | 65014  | HARONABD T-311.000                                                              | 6      | 0.9705  | 10.675 |
| -   | 65121 | FAQIRWLI-T1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 0.9995 | 10.994 |                             | 65122  | FAQIRWLI-T2 11.000                                                              | 6      | 0.9995  | 10.994 |
|     | 65191 | т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6      | 0.9961 | 10.957 |                             | 65192  | T-2 11.000                                                                      | 6      | 0.9961  | 10.957 |
|     | 65211 | FORTABAS-T1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6      | 0.9926 |        |                             | 65212  | FORTABAST-2 11.000                                                              | 6      | 0.9884  | 10.872 |
|     | 70001 | MIANCHNU T1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 1.0391 | 11,430 |                             | 70002  | MTANCHNU $T = 211,000$                                                          | Ğ      | 1 0193  | 11 213 |
|     | 70003 | MTANCHNU T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 1.0086 | 11 095 |                             | 70011  | CHAK = 83 = T1 11 000                                                           | ĕ      | 1 0043  | 11 0/8 |
|     | 70012 | CHAK = 83 = T2 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ă      | 1 0043 | 11 0/8 |                             | 70061  | U  STDNAT T 111 000                                                             | 6      | 0.0786  | 10 765 |
|     | 70062 | H STDNAT $T_{-211}$ 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6      | 1 0043 | 11 040 |                             | 70101  | $\begin{array}{c} H  SIDNAI  I = III  OOO \\ KACHAKHH  T  III  OOO \end{array}$ | 6      | 0.9700  | 10.703 |
| . 1 | 70102 | $\frac{1}{2} \frac{1}{2}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0      |        | 10.770 |                             | 70102  |                                                                                 | Ö      | 0.9/91  | 10.770 |
|     | 70201 | $\mathbf{K} = \mathbf{K} = $ | 0      | 0.3/31 |        |                             | 10102  | KACHAKHU I-JII.000                                                              | b      | 0.98/6  | 10.864 |
|     | 70201 | KHANEWAL 1-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | b b    | 0.9983 | 10.982 |                             | 70202  | KHANEWAL 1-211.000                                                              | 6      | 0.9910  | 10.907 |
|     | 70203 | KHANEWAL T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 0.9925 | 10.917 |                             | /0301  | KABIRWLA T-111.000                                                              | 6      | 1.0009  | 11.009 |
|     | 70302 | KABIRWLA T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 1.0235 | 11.258 |                             | 70303  | KABIRWLA T-311.000                                                              | 6      | 0.9713  | 10.684 |
|     |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |        |        | 12-2                        | a  1   |                                                                                 |        |         |        |

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|         |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | 2025-WI | THOUT.txt                                                           | and the second second second second second second second second second second second second second second second |
|---------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|         | 70321  | MP PAHOR T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9695 | 10.664  | 70322 MP PAHOR T-211.000                                            | 6 0.9973 10.971                                                                                                  |
|         | 70401  | GARHMORE T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9765 | 10.742  | 70402 GARHMORE T-211.000                                            | 6 0.9903 10.893                                                                                                  |
| a<br>Sa | 70421  | B-BANGLA T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9880 | 10.868  | 70501 JEHANIAN T-111.000                                            | 6 0,9824 10,806                                                                                                  |
|         | 70502  | JEHANIAN T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0105 | 11.116  | 70503 JEHANIAN T-311.000                                            | 6 0,9790 10,769                                                                                                  |
|         | 70601  | СНАК.211 Т-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9975 | 10.972  | 70602 CHAK 211 T-211.000                                            | 6 0.9948 10.943                                                                                                  |
|         | 70603  | СНАК 211 Т-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0120 | 11 132  | 70701 MATLST T-1 11.000                                             | 6 1.0204 11.224                                                                                                  |
|         | 70702  | MATIST $T-2$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 1 0204 | 11 224  | 70703 MATIST T-3 11 000                                             | 6 1 0155 11 171                                                                                                  |
| Ċ.      | 70751  | MUKHOM R T-111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0 9676 | 10 643  | 70752 MUKHOM R T-211 000                                            | 6 0 9568 10 525                                                                                                  |
|         | 71101  | BASTIMIK T-111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0217 | 11 238  | 71102 BASTIMIK T-211 000                                            | $6 \ 1 \ 0197 \ 11 \ 217$                                                                                        |
|         | 71103  | BASTIMLK T-311 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0197 | 11 217  | 71102 BASTINER 1 211.000<br>71111 T-1 11 000                        | 6 0 9789 10 768                                                                                                  |
|         | 71117  | $T_{-2}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0 9747 | 10 722  | $71151 \text{ MTRAN P T_1} 11 000$                                  | 6 1 0116 11 128                                                                                                  |
|         | 71152  | $MTDAN D T_{2} 11 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1 0116 | 11 178  | 71201 I ODUDAN T-1 11 000                                           | $6 \ 1 \ 0300 \ 11 \ 420$                                                                                        |
|         | 71202  | $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H_{1}$ ( $H$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 1 0300 | 11 /20  | 71201 LODHRAN T-1 11,000<br>71203 LODHRAN T-3 11 000                | $6 \ 1 \ 0447 \ 11 \ 492$                                                                                        |
|         | 71751  | 1  ADT  1 = 11,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0 0883 | 10 871  | 71203  LODRAR $1-3 11.000$                                          | $6 \cap 0000 10 071$                                                                                             |
|         | 71201  | $LARI^{-1}$ 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0165 | 11 101  | 71202 LAK $1-2$ $11.000$                                            | 0 0.9003 10.071                                                                                                  |
|         | 71101  | $\begin{array}{c} BU_{\bullet}JADIDD \\ DIAWADDD \\ T \\ 111 \\ 000 \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 1 0103 | 11.101  | 71402 BU JADID 1~211.000                                            | 0 0.9005 10.704                                                                                                  |
|         | 71401  | BHAWALPR = 211,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 61.0410  | 11 206  | 71402 BHAWALPR 1-211.000                                            | 0 1.0404 11.444                                                                                                  |
|         | 71403  | BHAWALPR 1-511.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0054 | 11 050  | 71403  BWP 00.000<br>$71413 \pm 2$ 11.000                           | 0 1.0211 07.094                                                                                                  |
|         | 71411  | $1-1 \qquad 11.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 1 0109 | 11 210  | 71412 1-2 	11.000                                                   | 6 1.0034 11.039                                                                                                  |
|         | 71451  | BP CANTI 1-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1 0256 | 11 202  | 71432 BPCANIT 1-2 11.000                                            | 0 1.0190 11.210                                                                                                  |
|         | 71433  | 1-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6 1 0250 | 11.405  | 71471 KARORPCA T-111.000                                            | 0 1.0300 11.397                                                                                                  |
|         | 71472  | KARORPCA = 1 - 211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 1.0300 | 11 403  | 71475 KARUKPCA 1-511.000                                            | $0 \pm 0228 \pm .231$                                                                                            |
|         | 71491  | DUNYAPUR 1-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 1.0243 | 10 565  | 71492 DUNYAPUR 1-411.000                                            | 6 1.0243 11.268                                                                                                  |
|         | 71501  | SAMASATA (~111,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 0.9005 | 10.202  | 71502 SAMASATA 1-211.000                                            | 6 0.9005 10.505                                                                                                  |
|         | 71501  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | 10.341  | 71532 $1-2$ $11.000$                                                | 0 0.9527 10.259                                                                                                  |
|         | 71091  | MUB-PUR-II II.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 0 9055 | 10.399  | 71592 MUB-PUK-12 11.000                                             | 0 0.9055 10.599                                                                                                  |
| ŝ.      | 71701  | LIAUATPK I - III.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 0.9499 | 10,440  | 71002 LIAUAIPR 1-211.000                                            | 0 0.9499 10.440                                                                                                  |
|         | 71704  | AHMDPR E $1-211.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6 0 0046 |         | 71705 AHMUPK E 1-511.000<br>71901 EEPOZA T 1 11 000                 | 0 0.9940 10.934                                                                                                  |
|         | 71704  | $AHMDPR_{1}E 14 II.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 1 0266 | 10.941  | 71001 FERUZA I-1 11.000                                             | 0 1.0515 11.547                                                                                                  |
| • •     | 71052  | $\frac{1}{1} \frac{1}{1} 6 1 0360 | 11.403  | 71011 KHANDELA 1-111,000<br>71852 T.2 11 000                        | 6 0.9001 10.901                                                                                                  |
|         | 72001  | $\begin{array}{c} KHANDELA & I^{-}Z \\ KHANDHD & T^{-}I^{-}I^{-}I^{-}I^{-}OO \\ \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 1 0252 | 11 277  | $72002$ $\mu$ $\mu$ $\mu$ $\mu$ $\mu$ $\mu$ $\mu$ $\mu$ $\mu$ $\mu$ | 6 0.9728 10.701                                                                                                  |
|         | 72001  | $\frac{1}{1000}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6 0 9723 | 10 605  | 72002 KHANFUR $1-2$ 11.000<br>72101 MWORGHTA T=111 000              | 6 0.9774 10.931                                                                                                  |
| ć .     | 72003  | $M_{\text{M}} O S H T A T T 11 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 1 0471 | 11 518  | 72101  MWQRSHIA = 111.000                                           | $6 \ 1 \ 0022 \ 11 \ 024$                                                                                        |
|         | 72102  | $T_{-1}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 0 9941 | 10 975  | 72103 = 3 $11,00072112 = 2$ $11,000$                                | 6 0 9899 10 889                                                                                                  |
|         | 72111  | $P \vee KHAN = 111000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1 0083 | 11 001  | $72112$ $P = 2$ $T_{1000}$ $T_{200}$ $P = 211000$                   | 6 0 9716 10 687                                                                                                  |
|         | 777703 | P = 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 1 0135 | 11 1/0  | 72202 K.I.KIAN $1-211.000$                                          | 6 0.9710 10.007                                                                                                  |
|         | 72203  | $P \vee V W = 111 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 0 0752 | 10 727  | 72204 1-4 = 11.000<br>$72252 P V KHN2 T_211 000$                    | 6 0 9634 10 597                                                                                                  |
| 1       | 77752  | $T_{2}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 1 0065 | 11 072  | 72232 R.T.RINZ $7-211.00072201 T-1 11 000$                          | 6 0.9786 10.764                                                                                                  |
|         | 77707  | $T_{-2}$ $T_{-2}$ $T_{-2}$ $T_{-2}$ $T_{-2}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 0 0786 | 10 764  | 72301 SADTOARD T-111 000                                            | 6 1 0126 11 120                                                                                                  |
|         | 77307  | $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1} - 2$ $x_{1$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6 1 0126 | 11 139  | 72303 SADIQABD T 111.000                                            | 6 1 0271 11 208                                                                                                  |
| •       | 72304  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6 1 0173 | 11 190  | 72311  WALANA T-1 11 000                                            | 6 0 9981 10 979                                                                                                  |
|         | 72304  | $W_{\Lambda}$ ANA T-2 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 1 0036 | 11 040  | 72351 NAWAZ T-1 11 000                                              | 6 0 9917 10 909                                                                                                  |
|         | 72352  | NAWAZAR $T = 2 11,000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6 1.0121 | 11,133  | 72353 T-3 11 000                                                    | 6 1.0152 11.167                                                                                                  |
|         |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |         |                                                                     |                                                                                                                  |

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|       |                                          |                                                         | 2025 147         | TUOUT | +                                       |                                                         |        |
|-------|------------------------------------------|---------------------------------------------------------|------------------|-------|-----------------------------------------|---------------------------------------------------------|--------|
| 2401  | J.D.WALI T-111.000<br>J.D.WALI T-311.000 | $\begin{array}{c} 6 & 0.9711 \\ 6 & 1.0177 \end{array}$ | 10.683<br>11.194 | 72402 | JDWALI T-2 11.000<br>MN.KH.RD T-111.000 | $\begin{array}{c} 6 & 1.0021 \\ 6 & 1.0054 \end{array}$ | 11.023 |
| 2502  | MN.KH.RD T-211.000                       | 6 1.0004                                                | 11.005           | 72503 | MN.KH.RD T-311.000                      | 6 1.0054                                                | 11.059 |
| 2551  | WAP TO T-1 11.000                        | 6 1.0255                                                | 11.280           | 72552 | WAPDA TO T-211.000                      | 6 0.9988                                                | 10.986 |
| 2554  | т-3 11.000                               | 6 0.9922                                                | 10.915           | 72601 | MN.BS.RD T-111.000                      | 6 1.0239                                                | 11.262 |
| 2602  | MN.BS.RD T-211.000                       | 6 0.9828                                                | 10.811           | 72603 | MN.BS.RD T-311.000                      | 6 1.0239                                                | 11.262 |
| 2604  | T-4 11.000                               | 6 0.9891                                                | 10.881           | 72611 | PNJB HSG T-111.000                      | 6 1.0069<br>6 1.0140                                    | 11 154 |
|       | PNJE HSG $1-211.000$                     | 6 1.0069                                                | 10 976           | 72621 | BUCH VLS $1-111.000$                    | 6 1.0140                                                | 10 002 |
| 2031  | $T_1$ 11 000                             | 6 0 9843                                                | 10.030           | 72692 | $T_{-2}$ 11 000                         | 6 0 9843                                                | 10.903 |
| 2701  | MIN-TND T-1 11 000                       | 6 1.0157                                                | 11,173           | 72702 | MIN-TND T-2 11.000                      | 6 1.0065                                                | 11.072 |
| 2703  | MLN-IND T-3 11.000                       | 6 1.0021                                                | 11.023           | 72731 | SURJ MNI T-111.000                      | 6 1.0218                                                | 11.240 |
| 2732  | SURJ MNI T-211.000                       | 6 1.0091                                                | 11.100           | 72801 | MN.VR.RD T-111.000                      | 6 1.0304                                                | 11.334 |
| 2802  | MN.VR.RD T-211.000                       | 6 1.0594                                                | 11.654           | 72803 | MN.VR.RD T-311.000                      | 6 1.0368                                                | 11.405 |
| 2804  | т-4 11.000                               | 6 1.0055                                                | 11.060           | 72851 | QASIMPUR T-111.000                      | 6 1.0436                                                | 11.479 |
| 2852  | QASIMPUR T-211.000                       | 6 1.0348                                                | 11.383           | /2853 | QASIMPUR T-311.000                      | 6 1.0542                                                | 11.596 |
| 2854  | I - 4 $I L .000$                         | 6 1.0027                                                | 11.030           | 72071 | M.J RD I - I II.000                     | 6 1 0505                                                |        |
| 2012. | $M_{1}$ , $RD_{1}$ , $T_{2}$ 11,000      | 6 1 0599                                                | 11 650           | 77883 | SHUJABAD T-111.000                      | 6 1 0326                                                | 11 350 |
| 2802  | 1 P W T = 1 11 000                       | 6 1 0226                                                | 11 249           | 72892 | P W T = 2 11 000                        | 6 1 0223                                                | 11 246 |
| 2893  | J.P.W T-3 11.000                         | 6 1.0306                                                | 11.337           | 72901 | MFSC0 T-1 11.000                        | 6 1.0094                                                | 11.103 |
| 2902  | MESCO T-2 11.000                         | 6 1.0578                                                | 11.636           | 72903 | MESCO T-3 11.000                        | 6 1.0287                                                | 11.316 |
| 3111  | т-1 11.000                               | 6 1.0025                                                | 11.027           | 73112 | т-2 11.000                              | 6 1.0025                                                | 11.027 |
| 3201  | GUJRAT.S T1 11.000                       | 6 1.0169                                                | 11.186           | 73202 | GUJRAT.S T3 11.000                      | 6 1.0227                                                | 11.249 |
| 3203  | GUJRAT.S T2 11.000                       | 6 1.0162                                                | 11.178           | 73251 | LAYYAH T-1 11.000                       | 6 1.0112                                                | 11.124 |
| 3252  | LAYYAH T-2 11.000                        | 6 1.0112                                                | 11.124           | /3253 | LAYYAH T $-3$ 11.000                    | 6 1.0150                                                | 11.105 |
| 3281  | KBGASHER I-III.000                       | 6 1.0001                                                | 10 646           | 73282 | KBGASHER I-211.000                      | 6 0. 0668                                               | 10 635 |
| 2303- | MZERCARH T= $311000$                     | 6 0 9678                                                | 10.646           | 73302 | MZFRGARH T=211.000                      | 6 1 0370                                                | 11 407 |
| 3313  | KOTADU = 0 T = 311,000                   | 6 1 0299                                                | 11.329           | 73314 | KOTADU = 0 T = 411.000                  | 6 1.0255                                                | 11.281 |
| 3321  | N.A.WALI T-211.000                       | 6 1.0313                                                | 11.345           | 73322 | N.A.WALI T-111.000                      | 6 1.0346                                                | 11.380 |
| 3323  | т-3 11.000                               | 6 1.0228                                                | 11.251           | 73331 | S S DIN T1 11.000                       | 6 1.0183                                                | 11.202 |
| 3332  | S S DIN T2 11.000                        | 6 0.9965                                                | 10.961           | 73351 | KOTSULTAN-T111.000                      | 6 1.0151                                                | 11.166 |
| 3352  | KOTSULTAN-T211.000                       | 6 1.0280                                                | 11.308           | 73361 | KAROR L.E-T111.000                      | 6 0.9782                                                | 10.760 |
| 3362  | KAROR L.E-T2                             | 6 0.9782                                                | 10 004           | /3401 | MEHRKHAS T-111.000                      | 6 0.9780                                                | 10.758 |
| 3402  | MEHRKHAS I - 2II.000                     | 6 0.9913                                                | 10.904           | 73403 | MEHRKHAS $I=3$                          | 6 0 9925                                                | 10 28/ |
| 3601  | DMR WALA $I = 111.000$                   | 6 0 9327                                                | 10.475           | 73602 | 1  ATOTING  T = 211,000                 | 6 0 9211                                                | 10.204 |
| 3603  | T-3 11.000                               | 6 0.9296                                                | 10.225           | 73701 | KHRPRSDT $T-111.000$                    | 6 0.9593                                                | 10.553 |
| 3702  | KHPRSDT T-2 11.000                       | 6 0.9650                                                | 10.615           | 73951 | SHA.LND T-1 11.000                      | 6 1.0058                                                | 11.063 |
| 3952  | SHA LND T-2 11.000                       | 6 0.9788                                                | 10.766           | 74001 | TAUNSA T-1 11.000                       | 6 0.9774                                                | 10.751 |
| 4002  | TAUNSA T-2 11.000                        | 6 0.9774                                                | 10.751           | 74003 | т-3 11.000                              | 6 1.0061                                                | 11.067 |
| 4111  | т-1 11.000                               | 6 0.9595                                                | 10.554           | 74121 | т-1 11.000                              | 6 1.0100                                                | 11.110 |

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|   |       |           |             |     |                  | 202    | 2-MTIHO | JI. | txt                |     |        |        |
|---|-------|-----------|-------------|-----|------------------|--------|---------|-----|--------------------|-----|--------|--------|
|   | 74131 | т-1       | 11.000      | 6   | 0.9971           | 10.968 | 741     | 41  | T-1 11.000         | 6   | 1.0136 | 11.150 |
|   | 74161 | т-1       | 11.000      | . 6 | 1.0028           | 11.031 | 744     | 01  | CHOKMNDA T-111.000 | 6   | 1.0199 | 11.219 |
|   | 74402 | CHOKMNDA  | T-211.000   | 6   | 1.0144           | 11.159 | 745     | 02  | CHAUBARA T-211.000 | 6   | 1.0106 | 11.117 |
|   | 74562 | CHOKAZAM  | T1 11.000   | 6   | 1.0194           | 11.213 | 745     | 63  | т-3 11.000         | 6   | 0.9987 | 10.986 |
|   | 74591 | KHANGARH  | т-111.000   | 6   | 0.9809           | 10.790 | 745     | 92  | KHANGARH T-211.000 | 6   | 0.9867 | 10.854 |
|   | 74602 | D.G.KHAN  | т-211.000   | 6   | 0.9991           | 10.990 | 746     | 03  | D.G.KHAN T-311.000 | 6   | 1.0022 | 11.024 |
|   | 74604 | D.G.KHAN  | т-411.000   | 6   | 0.9856           | 10.842 | 746     | 41  | т-1 11.000         | 6   | 0.9819 | 10.801 |
|   | 74651 | КОТСНИТА  | T-111.000   | 6   | 0.9797           | 10.777 | 746     | 52  | КОТСНИТА Т-211.000 | 6   | 0.9797 | 10.777 |
|   | 74653 | KOTCHUTTA | ч т311.000  | 6   | 0.9841           | 10.825 | 746     | 91  | CHOTI T-1 11.000   | 6   | 0.9883 | 10.871 |
|   | 74701 | ROJHAN T- | -1 11.000   | 6   | 1.0008           | 11.009 | 747     | 31  | т-1 11.000         | 6   | 0.9848 | 10.832 |
|   | 75111 | т-1       | 11.000      | 6   | 1.0075           | 11.082 | 751     | .12 | T-2 11.000         | 6   | 0.9995 | 10.995 |
|   | 75901 | SKHISRWR  | т-111.000   | 6   | 0.9859           | 10.845 | 759     | 02  | SKISRWR T-2 11.000 | 6   | 0.9707 | 10.678 |
|   | 76111 | т-1       | 11.000      | 6   | 1.0035           | 11.039 | 771     | .12 | T-2 11.000         | 6   | 1.0035 | 11.039 |
|   | 77811 | YAZMAN-T- | -1 11.000   | 6   | 0.9837           | 10.821 | 778     | 12  | YAZMAN T-2 11.000  | 6   | 0.9837 | 10.821 |
|   | 77911 | MAROOT T  | L 11.000    | 6   | 1.0099           | 11.109 | 779     | 12  | MAROOT T-2 11.000  | 6   | 0.9983 | 10.981 |
|   | 78311 | FATEHPUR  | T-111.000   | 6   | 0.9726           | 10.698 | 783     | 12  | FATEPUR T-2 11.000 | 6   | 0.9901 | 10.891 |
|   | 78313 | т-3       | 11.000      | 6   | 1.0203           | 11.223 | 784     | 01  | T1 11.000          | 6   | 0.9927 | 10.920 |
|   | 78921 | Т1        | 11.000      | 6   | 1.0209           | 11.230 | 790     | 91  | D.G.K.II T-111.000 | 6   | 1.0175 | 11.193 |
|   | 79092 | D.G.K.II  | T-211.000   | 6   | 1.0039           | 11.043 | 791     | 11  | T-1 11.000         | 6   | 0.9607 | 10.568 |
|   | 79112 | T-2       | 11.000      | 6   | 0.9607           | 10.568 | 793     | 01  | JAMPUR T-1 11.000  | 6   | 0.9728 | 10.701 |
|   | 79302 | JAMPUR T- | -2 11.000   | 6   | 0.9960           | 10.956 | 793     | 31  | FAZALPUR T-111.000 | 6   | 1.0015 | 11.016 |
|   | 79332 | FAZALPUR  | T-211.000   | 6   | 0.9921           | 10.913 | 795     | 11  | RAJANPUR T-111.000 | 6   | 1.0168 | 11.185 |
|   | 79512 | RAJANPUR  | T = 211.000 | 6   | 1.0168           | 11.185 | /95     | 13  | RAJANPUR T-3       | 6   | 0.9967 |        |
|   | 79741 | UCH.SHRF  | T-211.000   | 6   | 0.9952           | 10.947 | /9/     | 42  | UCH.SHRF T-311.000 | · 6 | 0.9742 | 10.716 |
|   | 79743 | UCH.SHRF  | T-111.000   | 6   | 0.9999           | 10.999 | /98     | 11  | ALI PUR T-1 11.000 | 6   | 0.9349 | 10.284 |
|   | 79812 | ALIPUR T- | -2 11.000   | 6   | 0.9540           | 10.494 | /98     | 13  | ALIPUR T-3 11.000  | 6   | 0.9561 | 10.517 |
|   | 79821 |           | 11.000      |     | 0.9380           | 10.318 | 798     | 22  | T-2 11.000         | 6   | 0.9380 | 10.318 |
|   | 79841 | H.R. KAN  | IL 11.000   | 6   | 1.0256           | 11.281 | /98     | 42  | T-2 11.000         | 6   | 0.9943 | 10.937 |
|   | 79904 | 1~4       | 11.000      | 6   | 0.9881           | 10.869 | 799     | b1  | FRT MNRO T-111.000 | .6  | 1.0061 | 11.067 |
| 1 | 79962 | . I-Z .   | TT.000      | 6   | _ <b>1.</b> 0059 | TT.062 | / 325   | Τ7  | LSM-132KV 132.00   | 6   | 1.0195 | 134.58 |

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## 2025-WITH.txt

PTI INTERACTIVE POWER SYSTEM SIMULATOR--PSS(R)E TUE, JAN 26 2021 11:51 MEPCO-2025-REVISED-DIIP-WITH

BUSES WITH VOLTAGE GREATER THAN 2.0000:

BUS# X-- NAME --X BASKV AREA V(PU) V(KV) BUS# X-- NAME --X BASKV AREA V(PU) V(KV)

\* NONE \*

BUSES WITH VOLTAGE LESS THAN 1.7000:

| BUS# X NAMEX BASKV AREA V(PU    | ) V(KV)  | BUS# X NAMEX B      | ASKV AREA V(PU) V(KV) |
|---------------------------------|----------|---------------------|-----------------------|
| 401 T-3 11.000 6 0.999          | 7 10.997 | 502 T-3 11          | .000 6 1.0030 11.033  |
| 529 PARCO 220.00 6 1.038        | 5 228.50 | 5282 FATMA ENERGY13 | 2.00 6 1.0200 134.64  |
| 5283 FAZAL CLOTH 132.00 6 1.019 | 3 134.55 | 6030 QADIRABD 13    | 2.00 6 1.0261 135.44  |
| 6050 BNGAHYAT 132.00 6 1.007    | 3 132,96 | 6070 YOUSFWLA 13    | 2.00 6 1.0189 134.49  |
| 6080 SAHIWALN 132.00 6 1.010    | 7 133.41 | 6090 SAHIWAL-0 13   | 2.00 6 1.0103 133.37  |
| 6095 SAHIWAL III 132.00 6 1.007 | 3 132.97 | 6100 NOORPUR 13     | 2.00 6 1.0030 132.39  |
| 6101 PAKPATTAN-2 132.00 6 0.997 | 1 131.61 | 6120 PAKPATAN 13    | 2.00 6 0.9796 129.31  |
| 6130 HARAPPA 132.00 6 0.993     | 9 131.20 | 6140 CHCHWTNI 13    | 2.00 6 0.9992 131.90  |
| 6149 KASOWAL132 132.00 6 0.995  | 2 131.37 | 6150 SH FAZAL 13    | 2.00 6 0.9759 128.82  |
| 6160 BUREWALA 132.00 6 0.966    | 7 127 60 | 6162 BREWLA-0 13    | 2.00 6 0.9587 126.55  |
| 6163 GAGOO 132.00 6 0.960       | 5 126.79 | 6169 VEHARI-N 13    | 2.00 6 1.0025 132.33  |
| 6170 VEHARI-O 132.00 6 0.998    | 9 131.86 | 6175 LUDDEN 13      | 2.00 6 0.9823 129.67  |
| 6178 KARAMPUR 132.00 6 0.970    | 1 128.05 | 6179 MACHIWAL 13    | 2.00 6 0.9788 129.20  |
| 6180 ARIFWALA 132.00 6 0.969    | 8 128.01 | 6181 ARIFWALA-2 13  | 2.00 6 0.9696 127.99  |
| 6182 KAMIRWALA 132.00 6 0.982   | 9 129.74 | 6190 BWL.NAGR 13    | 2.00 6 0.9713 128.21  |
| 6191 HOTA 132.00 6 0.965        | 5 127.44 | 6200 QABULA 13      | 2.00 6 0.9598 126.70  |
| 6210 SAHUKA 132.00 6 0.963      | 8 127.22 | 6220 HASILPUR 13    | 2.00 6 0.9842 129.91  |
| 6221 CHUNAWALA 132.00 6 0.982   | 5 129.69 | 6230 CHISTIAN-0 13  | 2.00 6 0.9828 129.73  |
| 6231 CHSTAN-N 132.00 6 0.988    | 3 130.46 | 6232 DHARWALA132 13 | 2.00 6 0.9744 128.62  |
| 6238 BUKHSHAN 132132.00 6 0.984 | 8 129.99 | 6239 CHISTIAN 13213 | 2.00 6 0.9864 130.20  |
| 6250 MAN-KOT 132.00 6 1.007     | 8 133.03 | 6410 HASILPUR 66    | 6 0.9842 64.956       |
| 6419 L.SOHANRA 132.00 6 1.001   | 4 132.18 | 6420 BEST-GREEN 13  | 6 1.0193 134.55       |
| 6421 K.P.TOMI 132.00 6 0.988    | 4 130.47 | 6422 APPOLO-SOLAR13 | 2.00 6 1.0177 134.33  |
| 6462 NOORSAR 132.00 6 0.980     | 4 129.41 | 6482 MNCHNBAD 13    | 6 0.9519 125.65       |
| 6488 BWL NAGAR-2 132.00 6 0.974 | 5 128.63 | 6489 DONGA BNGA 13  | 2.00 6 0.9685 127.85  |
| 6491 MCLD.GNJ 132.00 6 0.947    | 5 125.06 | 6501 HARONABD 13    | 2.00 6 0.9719 128.29  |
| 6512 FAQIRWLI 132.00 6 0.970    | 5 128.13 | 6519 KHICHIWALA 13  | 2.00 6 0.9684 127.83  |
| 6521 EORTARAS 132 00 6 0 974    | 7 178 59 | 6666 MULTAN-N 13    | 2.00 6.1.0246.135.25  |

|     |      |              |         |          | Z025-W. | 11H.T | Xt           |         |                           |   |
|-----|------|--------------|---------|----------|---------|-------|--------------|---------|---------------------------|---|
|     | 7000 | MIANCHNU     | 132.00  | 6 0.9739 | 128.55  | 7001  | CHAK-83-132  | 132.00  | 6 0.9920 130.95           |   |
|     | 7002 | KASSOWAL     | 132.00  | 6 1.0102 | 133.34  | 7006  | HEAD STDHNAT | r132.00 | 6 0.9581 126.47           |   |
|     | 7010 | КАСНАКНИ     | 132.00  | 6 0.9577 | 126.41  | 7020  | KHANFWAI     | 132.00  | 6 0 9753 128 74           | • |
|     | 7029 | FAUJT-K      | 132.00  | 6 1.0000 | 132.00  | 7030  | KARTRWIA     | 132 00  | 6 0 9683 127 82           |   |
|     | 7032 | MP_PAHOR     | 132.00  | 6 0.9579 | 126 45  | 7040  | GARHMORE     | 132.00  | 6 0 9804 129 42           |   |
|     | 7042 | R-BANGLA     | 132 00  | 6 0 9552 | 126 09  | 7050  | JEHANTAN     | 132 00  | 6 0 9786 129 18           |   |
|     | 7060 | СНАК 211     | 132 00  | 6 0 9721 | 128 32  | 7070  | MATIST       | 132.00  | 6 0 9851 130 03           |   |
|     | 7075 |              | 132.00  | 6 0 98/1 | 120.52  | 7100  | D CATE-1     | 132.00  | $6 \ 1 \ 0107 \ 124 \ 60$ |   |
|     | 7100 |              | 122.00  | 6 0 0068 | 121 50  | 7110  |              | 122.00  | 0 1.0197 134.00           |   |
|     | 7103 | FIGALD-Z     | 122.00  | 6 0 0700 | 120 20  |       | BASI LMLK    | 132.00  | 6 1.0012 132.16           |   |
|     | 7116 |              | 122.00  | 6 0 0027 | 121 02  | 7120  | MIRAN PUR    | 132.00  | 6 0.9948 131.31           |   |
|     | 7175 |              | 122.00  | 6 0.9927 |         | 7120  |              | 132.00  | 6 1.0161 134.13           |   |
|     | 7120 |              | 122.00  | 0 0.9920 | 122 47  | 7130  | BO" JADID    | 132.00  | 6 1.008/ 133.14           |   |
|     | 7140 | BWPN-Z       | 132.00  | 6 1.0030 | 132.47  | /139  | B.W.P-N      | 132.00  | 6 1.0403 137.32           |   |
|     | 7140 | BHAWALPR     | 132.00  | 6 1.0261 | 135.45  | /141  | LODHRAN-2    | 132.00  | 6 1.0231 135.04           |   |
|     | 7145 | BFUR CANIT   | 132.00  | 6 1.0322 | 136.25  | /146  | CREST-ENERGY | (132.00 | 6 1.0215 134.84           |   |
| , i | 7147 | KARORPCA     | 132.00  | 6 0.9883 | 130.46  | /148  | QAD-SOL-I    | 132.00  | 6 1.0200 134.64           |   |
|     | 7149 | DUNYAPUR     | 132.00  | 6 0.9754 | 128.75  | /150  | SAMASATA     | 132.00  | 6 0.9939 131.19           |   |
|     | /153 | KOT KHALIFA  | 132.00  | 6 0.9706 | 128.12  | 7159  | MUB-PUR      | 132.00  | 6 0.9824 129.67           |   |
|     | /160 | LIAQATPR     | 132.00  | 6 0.9752 | 128.73  | 7170  | AHMDPR.E     | 132.00  | 6 0.9774 129.01           |   |
|     | /1/5 | RYK-PP       | 132.00  | 6 1.0100 | 133.32  | 7180  | FEROZA       | 132.00  | 6 1.0091 133.20           |   |
|     | 7185 | KHANBELA     | 132.00  | 6 0.9885 | 130.48  | 7190  | HAMZA-PP     | 132.00  | 6 1.0000 132.00           |   |
|     | 7200 | KHANPUR      | 132.00  | 6 1.0047 | 132.62  | 7210  | MWQRSHIA     | 132.00  | 6 1.0178 134.35           |   |
| i.  | 7211 | VEHARI-2     | 132.00  | 6 1.0021 | 132.28  | 7212  | DGK-3        | 132.00  | 6 1.0061 132.80           |   |
|     | /213 | NAGSHAH132   | 132.00  | 6 1.0174 | 134.29  | 7214  | LOAQATPUR-2  | 132.00  | 6 0.9713 128.21           |   |
|     | /215 | MLN IND-2    | 132.00  | 6 1.0136 | 133.79  | 7220  | R.Y.KHAN     | 132.00  | 6 0.9942 131.24           |   |
|     | 7221 | RYK-NEW      | 132.00  | 6 1.0232 | 135.06  | 7225  | R.Y.KHN2     | 132.00  | 6 0.9859 130.14           |   |
|     | 7229 | RYK-3        | 132.00  | 6 0.9961 | 131.49  | 7230  | SADIQABD     | 132.00  | 6 1.0135 133.78           |   |
|     | 7231 | SANJARPUR    | 132.00  | 6 1.0178 | 134.34  | 7232  | JDW II USM F | P132.00 | 6 1.0300 135.96           |   |
|     | 7235 | NAWAZABD     | 132.00  | 6 1.0187 | 134.46  | 7237  | RIE          | 132.00  | 6 1.0106 133.39           |   |
|     | 7240 | J.D.WALI     | 132.00  | 6 0.9996 | 131.95  | 7250  | MN.KH.RD     | 132.00  | 6 1.0214 134.83           |   |
| ÷., | 7255 | WAPDATWN     | 132.00  | 6 1.0111 | 133.47  | 7260  | MN.BS.RD     | 132.00  | 6 1.0063 132.83           |   |
|     | 7261 | PUNJAB HOSNO | G132.00 | 6 1.0179 | 134.36  | 7262  | BUCH VILLAS  | 132.00  | 6 1.0063 132.83           |   |
|     | 7265 | QASIMBGH     | 132.00  | 6 1.0124 | 133.64  | 7269  | RAWAN ROAD   | 132.00  | 6 1.0108 133.43           |   |
|     | 7270 | MLN-IND      | 132.00  | 6 1.0152 | 134.01  | 7272  | COCA COLA    | 132.00  | 6 1.0134 133.77           |   |
|     | 7273 | SURAJ MIANI  | 132.00  | 6 1.0104 | 133.37  | 7275  | C.T.MILL     | 132.00  | 6 1.0144 133.90           |   |
|     | 7277 | APL          | 132.00  | 6 0.9832 | 129.78  | 7280  | MN.VR.RD     | 132.00  | 6 1.0130 133.71           |   |
|     | 7285 | QASIMPUR     | 132.00  | 6 1.0136 | 133.80  | 7287  | M.JAILRD     | 132.00  | 6 1.0101 133.33           |   |
|     | 7288 | SHUJABAD     | 132.00  | 6 0.9997 | 131.96  | 7289  | JALALPWL     | 132.00  | 6 0.9809 129.48           |   |
|     | 7290 | MESCO        | 132.00  | 6 1.0046 | 132.61  | 7300  | КАРСО        | 132.00  | 6 1.0490 138.47           |   |
|     | 7311 | MZFRGARH-2   | 132.00  | 6 1.0124 | 133.63  | 7320  | GUJRAT.S     | 132.00  | 6 1.0274 135.61           |   |
|     | 7325 | LAYYAH       | 132.00  | 6 1.0201 | 134,66  | 7328  | KBGASHER     | 132.00  | 6 1.0273 135.60           |   |
|     | 7330 | MZFRGARH     | 132.00  | 6 1.0106 | 133.40  | 7331  | KOTADU-O     | 132.00  | 6 1.0471 138.21           |   |
|     | 7332 | N.A.WALI     | 132.00  | 6 1.0315 | 136.16  | 7333  | S.S.DIN      | 132.00  | 6 1.0026 132.34           |   |

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|        |              |         |    |        | 2025   | 5-N | VITH.t: | κt            |         |   |        |        |
|--------|--------------|---------|----|--------|--------|-----|---------|---------------|---------|---|--------|--------|
| 7334   | M GARH NEW   | 132.00  | 6  | 1.0127 | 133.68 |     | 7335    | KOTSULTAN     | 132.00  | 6 | 1.0308 | 136.06 |
| 7336   | KAROR L.E    | 132.00  | 6  | 1.0054 | 132.71 |     | 7337    | EPGL          | 132.00  | 6 | 1.0200 | 134.64 |
| 7339   | DUMMY IND    | 132.00  | 6  | 1.0133 | 133.76 |     | 7340    | MEHRKHAS      | 132.00  | 6 | 0.9575 | 126.39 |
| 7350   | DMR WALA     | 132.00  | 6  | 0.9448 | 124.71 |     | 7360    | JATOIJNB      | 132.00  | 6 | 0.9294 | 122.68 |
| 7370   | KHRPRSDT     | 132.00  | 6  | 0.9308 | 122.86 |     | 7395    | SHAD.LND      | 132.00  | 6 | 1.0145 | 133.92 |
| 7400   | TAUNSA       | 132.00  | 6  | 1.0026 | 132.34 |     | 7411    | MIANCHANU-2   | 132.00  | 6 | 0.9743 | 128.61 |
| 7412   | P.GHAIB132KV | 132.00  | 6  | 1.0177 | 134.34 |     | 7413    | SHAH JAMAL    | 132.00  | 6 | 1.0127 | 133.68 |
| 7414   | KOT MITHAN   | 132.00  | õ  | 1.0175 | 134.31 |     | 7416    | DRAWAR MORE   | 132.00  | 6 | 1.0133 | 133.75 |
| 7417   | PULL PANTU   | 132.00  | 6  | 0.9752 | 128.73 |     | 7435    | PARCO         | 132.00  | 6 | 1.0126 | 133.67 |
| 7436   | T-PARCO      | 132.00  | 6  | 1.0127 | 133.67 |     | 7440    | CHOKMNDA      | 132.00  | Ğ | 1.0339 | 136.47 |
| 7442   | T-AHTM       | 132.00  | Ő. | 1.0392 | 137.17 |     | 7443    | AHTM          | 132.00  | õ | 1.0391 | 137.16 |
| 7450   | CHAUBARA     | 132.00  | 6  | 1.0290 | 135.82 |     | 7456    | CHOKAZAM      | 132.00  | 6 | 1.0174 | 134.29 |
| 7459   | KHANGARH     | 132.00  | 6  | 0.9791 | 129.24 |     | 7460    | D.G.KHAN      | 132.00  | 6 | 1.0127 | 133.68 |
| 7462   | MDC-DGK      | 132.00  | Ğ  | 1.0144 | 133.89 |     | 7463    | CPC-DGK       | 132.00  | 6 | 1.0125 | 133.65 |
| 7464   | JAMPR 66-132 | 132.00  | 6  | 1.0030 | 132.39 |     | 7465    | КОТСНИТА      | 132.00  | 6 | 1.0068 | 132.89 |
| 7466   | T-ATM        | 132.00  | 6  | 1.0108 | 133.43 |     | 7467    | ATM           | 132.00  | 6 | 1.0108 | 133.42 |
| 7469   | СНОТІ 132    | 132.00  | 6  | 1.0106 | 133.40 |     | 7470    | ROJHAN        | 132.00  | 6 | 1.0320 | 136.23 |
| 7473   | DAJAL132     | 132.00  | 6  | 1.0014 | 132.18 |     | 7477    | ZENFA         | 132.00  | 6 | 1.0300 | 135.96 |
| 7511   | KOT SAMABA   | 132,00  | 6  | 1.0041 | 132.54 |     | 7580    | CMNT.FCT      | 132.00  | 6 | 1.0141 | 133.86 |
| 7590   | SKHISRWR     | 132.00  | 6  | 1.0120 | 133.58 |     | 7650    | L.SUHANRA132  | 2132.00 | 6 | 1.0246 | 135.25 |
| 7711   | BAHAWALPUR-2 | 132.00  | 6  | 1.0131 | 133.73 |     | 7781    | YAZMAN        | 132.00  | 6 | 1.0158 | 134.08 |
| 7791   | MAROOT       | 132.00  | 6  | 0.9963 | 131.51 |     | 7800    | KOTADDU       | 66.000  | 6 | 1.0419 | 68.763 |
| 7831   | FATEHPUR     | 132.00  | 6  | 1.0013 | 132.17 | ÷., | 7840    | RANGPUR       | 66.000  | 6 | 1.0220 | 67.450 |
| 7842   | T-RANGPR     | 66.000  | 6  | 1.0392 | 68.586 |     | 7892    | ΝΑΨΑΚΟΤ       | 132.00  | 6 | 1.0284 | 135.75 |
| 7909   | D.G.KHAN II  | 132.00  | 6  | 1.0104 | 133.37 |     | 7911    | ARRAY WAHAN   | 132.00  | 6 | 0.9836 | 129.83 |
| 7930   | JAMPUR       | 132.00  | 6  | 1.0057 | 132.75 |     | 7933    | FAZALPUR      | 132.00  | 6 | 1.0090 | 133.19 |
| 7951   | RAJANPUR     | 132.00  | 6  | 1.0135 | 133.78 |     | 7959    | INDUS ENERGY  | /132.00 | 6 | 1.0200 | 134.64 |
| 7974   | UCH, SHRF    | 132.00  | 6  | 0.9649 | 127.36 |     | 7981    | ALI PUR       | 132.00  | 6 | 0.9276 | 122.44 |
| 7982   | JATOI-2      | 132.00  | 6  | 0.9231 | 121.85 |     | 7984    | HEAD-RJ-KN    | 132.00  | 6 | 1.0136 | 133.80 |
| 7996   | FORT.MINRO   | 132.00  | 6  | 1.0121 | 133.60 |     | 60301   | QADIRABD T-1  | L11.000 | 6 | 1.0139 | 11.153 |
| 50302  | QADIRABD T-2 | 11.000  | 6  | 1.0139 | 11,153 |     | 60303   | T-3           | 11.000  | 6 | 1.0228 | 11.250 |
| 60501  | BNGAHYAT T-1 | 11.000  | 6  | 0.9891 | 10.880 |     | 60502   | BNGAHYAT T-2  | 211.000 | 6 | 0.9884 | 10.873 |
| 60503  | т-3          | 11.000  | 6  | 0.9899 | 10.889 |     | 60801   | SAHIWALN T-1  | L11.000 | 6 | 0.9600 | 10.560 |
| 50802  | SAHIWALN T-2 | 11.000  | 6  | 0.9600 | 10.560 |     | 60803   | т-3           | 11.000  | 6 | 1.0113 | 11.124 |
| 60901  | SAHWAL-O T-1 | .11.000 | 6  | 1.0102 | 11.112 |     | 60902   | SAHWAL-O T-2  | 211.000 | 6 | 0.9895 | 10.884 |
| 60903  | SAHWAL-O T-3 | 11.000  | 6  | 1.0102 | 11.112 |     | 60951   | SWL III T-1   | 11.000  | 6 | 1.0072 | 11.079 |
| 50952° | SWL III T-2  | 11.000  | 6  | 0.9787 | 10.766 |     | 60953   | т-3           | 11.000  | 6 | 1.0017 | 11.019 |
| 51001  | NOORPUR T-1  | 11.000  | 6  | 0.9914 | 10.906 |     | 61002   | NOORPUR $T-2$ | 11.000  | 6 | 0.9810 | 10.791 |
| 51004  | T-3          | 11.000  | 6  | 0.9733 | 10.706 |     | 61011   | T-1           | 11.000  | 6 | 0.9810 | 10.790 |
| 51012  | т-2          | 11.000  | 6  | 0.9796 | 10.775 |     | 61201   | PAKPATAN T-1  | 11.000  | 6 | 0.9614 | 10.575 |
| 51202  | ΡΑΚΡΑΤΑΝ Τ-2 | 11.000  | 6  | 0.9614 | 10.575 |     | 61203   | PAKPATAN T-3  | 311.000 | 6 | 0.9554 | 10.509 |
| 51301  | HARAPPA T-1  | 11.000  | 6  | 0.9481 | 10.429 |     | 61302   | HARAPPA T-2   | 11.000  | 6 | 1.0136 | 11.150 |
| 51401  | CHCHWTNI T-1 |         | 6  | 1.0061 |        |     | 61402   | CHCHWTNI T-2  | 211.000 | 6 | 1.0193 | 11.212 |

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|         |                                                                                       | · · · ·      | an an an an an an an an an an an an an a | 2025-  | WITH.t | xt                            |                |        |            |
|---------|---------------------------------------------------------------------------------------|--------------|------------------------------------------|--------|--------|-------------------------------|----------------|--------|------------|
| 61403   | CHCHWTNI T-311.00                                                                     | 0 6          | 1.0008                                   | 11.009 | 61491  | т-1 11.000                    | 6 (            | 0.9829 | 10.812     |
| 61501   | SH. FAZAL T-111.00                                                                    | 00 6         | 1.0151                                   | 11.166 | 61502  | SH.FAZAL T-211.000            | 6              | 1.0174 | 11.191     |
| 61503   | т-3 11.00                                                                             | 0 6          | 1.0294                                   | 11.323 | 61601  | BUREWALA T-111.000            | 6 <sup>7</sup> | 1.0419 | 11,460     |
| 61602   | BUREWALA T-211.00                                                                     |              | 1.0124                                   | 11.136 | 61603  | BUREWALA T-311.000            | 6 (            | 9770   | 10.747     |
| 61621   | BREWLA-0 T-111.00                                                                     | วัด ด้       | 0.9915                                   | 10,907 | 61622  | BRFWLA-0 T-211,000            | 6              | 1 0065 | 11 071     |
| 61623   | $T_{-3}$ 11 0                                                                         | า้ก ด้       | 0.9964                                   | 10 960 | 61631  | GAGOO T = 1 11 000            | 6              | 1 0158 | 11 174     |
| 61632   | GAGOO T = 2 11 00                                                                     | วัก คื       | 1.0174                                   | 11 191 | 61701  | VEHART-0 T-111 000            | 6 (            | 1 9927 | 10 920     |
| 61702   | VEHART = 0 T = 211 0                                                                  | 00 0<br>00 6 | 1 0247                                   | 11 271 | 61703  | V = HART - T = 3 = 11 000     | 6              | 1 000A | 11 005     |
| 61751   | $\begin{array}{c} \text{VENARY OF } 1 \\ \text{UDDEN } T_{-1} \\ 11 \\ 0 \end{array}$ | 00 0<br>00 6 | 0 9887                                   | 10 876 | 61752  | $1000 \text{ mm} \text{ m}^2$ | 6              | 1 0464 | 11.000     |
| 61753   | $T_{-3}$ 11 0                                                                         | 00 0<br>00 6 | 0 9776                                   | 10.754 | 61781  | $K_{A}P_{A}MDUP_{-1}11 000$   | 6 (            | 1 0856 | 10 941     |
| 61782   | $r_{ADAMDHD}$ $r_{-211}$ $\Omega$                                                     | 00 0         | 1 0366                                   | 11 /02 | 61701  | T1 11 000                     | 6 (            | 0756   | 10.041     |
| 61702   | $T_2$ 11 0                                                                            |              | 0 9756                                   | 10 732 | 61201  | APTEWALA = 311 000            | 6              | 1 0277 | 11 205     |
| 61802   | APTEWALA $T=211$ O                                                                    |              | 1 0277                                   | 11 305 | 61803  | ARTEWALA $T=311,000$          | 6 (            | 1.0277 | 10 840     |
| 61811   | $T_{-1}$ 11 0                                                                         | 00 6         | 1 018/                                   | 11 203 | 61812  | $T_2$ 11 000                  | 6              | 1.0107 | 11 202     |
| 61821   | L = 1 $L = 0$                                                                         | 00 0<br>00 6 | 0 0734                                   | 10 707 | 61822  | $K_{AMTP} = M_{-2} = 11,000$  | 6 (            | 1.0104 | 10 707     |
| 61001   | PWI NACE T-111 O                                                                      |              | 0.9794                                   | 10 71/ | 61002  | $T_{-3}$ 11 000               | 6              | 1 0100 | 10.707     |
| 61002   | BWL NACE T 211 OF                                                                     |              | 0.0740                                   | 10.714 | 61011  | 1-3 $11,000$                  | 6.0            | 1.0109 | 10 005     |
| 61012   | UOTA T 2 11 00                                                                        |              | 1 0207                                   | 11 276 | 61012  | $T_{2}$                       | 0 (            | 1.9990 | 10.995     |
| 62001   | $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                  | 00 0<br>00 6 | 0 0000                                   | 10 080 | 62002  | $-1-3$ $\pm 1.000$            |                | 1.9002 | 10.303     |
| 02001   | QABULA T = 11.00                                                                      |              | 0.9990                                   | 10.016 | 62101  | QABULA = 1 11,000             | 0 .            | L.0092 | 10 040     |
| 62102   | $\begin{array}{c} QABULA  I = J  III  O \\ SAUUKA  T  J  III  O \\ \end{array}$       |              | 1 0164                                   | 11 190 | 62202  | SATURA I - I II.000           |                | 1.9954 | 10.949     |
| · 62202 | $1 \times 1 \to 1 \to 1 \to 1 \to 1 \to 1 \to 1 \to 1 \to 1 \to $                     |              | 1.0104                                   | 11 012 | 62202  | $T_{11} 000$                  |                | ) 0705 | 10.975     |
| 62203   | $\frac{1}{1100}$                                                                      |              | 1 0025                                   | 11 028 | 62204  | 1-4 II.000                    |                | J.9/93 | 10.775     |
| 62202   | CHURCHTAN $T = 211$ OF                                                                | 00 0<br>00 6 | 1.0023                                   | 10 028 | 62303  | CHISTIAN $T^{-111}$ ,000      | 6 1            | 1 0000 | 11 021     |
| 62221   | CHISTIAN T=211.00                                                                     |              | 0.9909                                   | 10.900 | 62200  |                               | 6 0            | 1 0020 | 10 964     |
| 67201   | T 1  11 0                                                                             |              | 0.9870                                   | 10.004 | 62201  | $T_1 1 11 000$                |                | 1.90/0 | 10.004     |
| 62202   | $T_{-1}$ $T_{-1}$ $T_{-1}$                                                            |              | 0.9700                                   | 10.720 | 62501  | MAN KOT T 1 11 000            | 6 0            | ) 0077 | 10.700     |
| 62592   | MAN = KOT T = 2 11 00                                                                 |              | 0.9800                                   | 10.780 | 6/101  | MAN = KOT T = 1 11.000        |                | 1.9977 | 10.975     |
| 64211   | V = TOMT T = 111 O                                                                    | 00 0<br>00 6 | 0.9977                                   | 10 833 | 6/212  | V = 0 TOMT T-211 000          |                | 1 0039 | 10 807     |
| 64621   | NOOPSAR $T_1$ 11 0                                                                    | 00 0         | 0.9831                                   | 10.81/ | 6/622  | NOOPSAR $T_2$ 11 000          | 6 1            | 1 0202 | 11 222     |
| 64821   | MNCHNRAD T1 11 0                                                                      | 00 0<br>00 6 | 0.9886                                   | 10.874 | 64822  | $T_{-2}$ 11 000               | 6 0            |        | 10 800     |
| 6/881   | $T_{-1}$ 11 0                                                                         | 00 0<br>00 6 | 0.9789                                   | 10 768 | 64882  | $T_{-2}$ 11 000               | 6 1            | 1 0051 | 11 060     |
| 64801   | $T_{-1}$ 11 00                                                                        | 00 0         | 1 0058                                   | 11 064 | 64892  | $T_{-2}$ 11.000               | 6 1            |        | 11 064     |
| 6/011   | MCID GN1 T1 11 00                                                                     | 00 0<br>00 6 | 0 9983                                   | 10 987 | 64912  | MCID GNG T-2                  | 6 0            | 1 0022 | TT.004     |
| 65012   | HARONARD $T_211$ 0                                                                    | 00 0<br>00 6 | 0 9846                                   | 10.830 | 65013  | HARONARD T-111 000            | 6 0            | 1 9846 | 10 830     |
| 65012   | HARONARD $T = 311$ (                                                                  | 00 6         | 0.9839                                   | 10.823 | 65121  | FACTRWLT-T1 11 000            | 6 1            | 1 0120 | $11 \ 142$ |
| 65122   | EAOTRWLT-T2 11 $\Omega$                                                               | nn e         | 1 0129                                   | 11 142 | 65191  | $T_{-1}$ 11 000               | 6 1            | 1 0101 | 11 111     |
| 65192   | $T_{-2}$ 11 0                                                                         | 00 6         | 1 0101                                   | 11 111 | 65211  | FORTABAS-T1                   | 6 1            |        |            |
| 65212   | FORTABAST-2 11 0                                                                      | 00 6         | 1.0027                                   | 11.030 | 70001  | MTANCHNU T1 11 000            | 6 1            | 1 0401 | 11 441     |
| 70002   | MTANCHNU $T = 211.00$                                                                 | 00 6         | 1.0203                                   | 11.224 | 70003  | MTANCHNU T-311.000            | 6 1            | 1.0096 | 11,106     |
| 70011   | СНАК-83-Т1 11.0                                                                       | 00 Å         | 1.0080                                   | 11.088 | 70012  | CHAK-83-T2 11 000             | 6 1            | 1.0080 | 11.088     |
| 70061   | H STDNAT T-111.00                                                                     | no 6         | 1.0070                                   | 11.077 | 70062  | H STDNAT T-211.000            | i a            | ) 9791 | 10.771     |
| 70101   | KACHAKHU T-111.00                                                                     | 00 6         | 0.9745                                   | 10.720 | 70102  | КАСНАКНИ Т-211.000            | 6 0            | ) 9745 | 10.720     |

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|       |                                           | 1.1    |        | 20        | 25-1 | WITH.t    | xt                                          |        |        |        |
|-------|-------------------------------------------|--------|--------|-----------|------|-----------|---------------------------------------------|--------|--------|--------|
| 70103 | КАСНАКНИ Т-311.000                        | 6      | 0.9832 | 10.815    |      | 70201     | KHANEWAL T-111.000                          | 6      | 1.0012 | 11.013 |
| 70202 | KHANEWAL T-211.000                        | 6      | 0.9945 | 10.939    |      | 70203     | KHANEWAL T-311.000                          | 6      | 0.9954 | 10.949 |
| 70301 | KABIRWLA T-111.000                        | 6      | 1.0045 | 11.049    |      | 70302     | KABIRWLA T-211,000                          | 6      | 1.0271 | 11.298 |
| 70303 | KABIRWLA T-311.000                        | 6      | 0.9748 | 10.722    |      | 70321     | MP PAHOR T-111.000                          | 6      | 1.0003 | 11.003 |
| 70322 | MP PAHOR T-211.000                        | Ğ      | 0.9692 | 10.662    |      | 70401     | GARHMORE T-111.000                          | Ğ      | 0.9926 | 10.918 |
| 70402 | GARHMORE $T-211$ 000                      | ĕ      | 1 0061 | 11 067    |      | 70421     | B-BANGLA T-111 000                          | ĕ      | 0 9915 | 10 907 |
| 70501 | 1EHANTAN T-111 000                        | 6      | 1 0136 | 11 149    |      | 70502     | 3 = 100000000000000000000000000000000000    | ĕ      | 1 0292 | 11 321 |
| 70503 | $1 \in HANTAN = 311 \cap OO$              | 6      | 0 9972 | 10 070    |      | 70601     | CHAK 211 T = 111 000                        | 6      | 1 0226 | 11 249 |
| 70602 | $C \parallel A \parallel 211 = 211 000$   | 6      | 1 0201 | 11 221    |      | 70603     | CHAR 211 T 111.000                          | 6      | 1 0361 | 11 307 |
| 70002 | MATIST T 1 11 000                         | 6      | 1 0485 | 11 522    |      | 70003     | MATIST T 2 11 000                           | 6      | 1 0485 | 11 533 |
| 70701 | MATEST T = 11.000                         | 0      | 1 0403 | 11 107    |      | 70702     | MAILSI $1 = 2$ 11.000<br>MUKUDM D T 111 000 | 6      | 1 0125 | 11 1/0 |
| 70703 | MALEST $1-5$ 11.000<br>MUKUDM D T 211.000 | 6      | 1.0445 | 10 017    |      | 70731     | $T_{2}$                                     | 0      | 0.0766 | 10 742 |
| 70732 | PACTTMLK = 111,000                        | 0      | 0.9924 | 11 250    |      | 70733     | $1-3$ $\pm 1.000$                           | 0      | 1 0205 | 11 226 |
| 71102 | BASTIMLK 1-111.000                        | 0      | 1.0320 | 11 220    |      | 71111     | BASTIMLK 1-211.000                          | 0      | L.0505 | 10 001 |
| 71105 | BASTIMLK 1-511.000                        | 0      | 1.0303 | 10 754    |      |           |                                             | 0      | 0.9019 | 11 200 |
|       |                                           | 6      | 0.9/// | 10.754    |      |           | MIRAN P 1-1 11.000                          | 6      | 1.02/8 | 10 070 |
| 71102 | MIRAN P I-2 11.000                        | 6      | 1.0278 | 11.306    |      | 71201     | MK JANIAN IIII.000                          | 6      | 0.9882 | 11 505 |
| 71162 | 1-2 11.000                                | 6      | 0.9882 | 10.870    |      | 71201     | LODHRAN I-I II.000                          | 6      | 1.0459 | 11.505 |
| 71202 | LODHRAN 1-2 11.000                        | 6      | 1.0459 | 11.505    |      | /1203     | LODHRAN 1-3 11.000                          | 6      | 1.0514 | 11.566 |
| /1251 | LART-1 11.000                             | 6      | 1.0140 | 11.154    |      | /1252     | LAR T-2 11.000                              | 6      | 1.0140 | 11.154 |
| /1253 | T-3 11.000                                | 6      | 0.9885 | 10.874    |      | 71301     | BU.JADID T-111.000                          | 6      | 1.0221 | 11.243 |
| /1302 | BU.JADID T-211.000                        | 6      | 0.9861 | 10.847    |      | /1401     | BHAWALPR T-111.000                          | 6      | 1.04/3 | 11.520 |
| /1402 | BHAWALPR T-211.000                        | 6      | 1.0459 | 11.505    |      | 71403     | BHAWALPR T-311.000                          | 6      | 1.0332 | 11.365 |
| /1405 | BWP 66.000                                | 6      | 1.0261 | 67.723    |      | 71411     | т-1 11.000                                  | 6      | 1.0109 | 11.120 |
| /1412 | T-2 11.000                                | 6      | 1.0109 | 11.120    |      | 71451     | BP CANTT T-111.000                          | 6      | 1.0231 | 11.255 |
| /1452 | BPCANTT T-2 11.000                        | 6      | 1.0231 | 11.255    |      | 71453     | T-3 11.000                                  | 6      | 1.0290 | 11.319 |
| 71471 | KARORPCA T-111.000                        | 6      | 1.0448 | 11.493    |      | 71472     | KARORPCA T-211.000                          | 6      | 1.0454 | 11.499 |
| 71473 | KARORPCA T-311.000                        | 6      | 1.0315 | 11.347    |      | 71491     | DUNYAPUR T-311.000                          | 6      | 1.0422 | 11.464 |
| 71492 | DUNYAPUR T-411.000                        | 6      | 1.0422 | 11.464    |      | 71501     | SAMASATA T-111.000                          | 6      | 0.9634 | 10.597 |
| 71502 | SAMASATA T-211.000                        | 6      | 0.9634 | 10.597    |      | 71531     | т-1 11.000                                  | 6      | 0.9592 | 10.551 |
| 71532 | т-2 11.000                                | 6      | 0.9540 | 10.494    |      | 71591     | MUB-PUR-T1 11.000                           | 6      | 0.9666 | 10.632 |
| 71592 | MUB-PUR-T2 11.000                         | 6      | 0.9666 | 10.632    |      | 71601     | LIAQATPR T-111.000                          | 6      | 1.0407 | 11.448 |
| 71602 | LIAQATPR T-211.000                        | 6      | 1.0407 | 11.448    |      | 71702     | AHMDPR E T-211.000                          | 6      | 1.0082 | 11.091 |
| 71703 | AHMDPR.E T-311.000                        | 6      | 0.9973 | 10.970    |      | 71704     | AHMDPR.E T4 11.000                          | 6      | 0.9981 | 10.979 |
| 71801 | FEROZA T-1 11.000                         | 6      | 1.0183 | 11.201    |      | 71802     | FEROZA T-2 11.000                           | 6      | 1.0466 | 11.513 |
| 71851 | KHANBELA T-111.000                        | 6      | 0.9601 | 10.561    |      | 71852     | KHANBELA T-2                                | 6      | 1.0360 |        |
| 71853 | т-3 11,000                                | 6      | 0.9729 | 10.701    |      | 72001     | KHANPUR T-1 11.000                          | 6      | 1.0253 | 11.278 |
| 72002 | KHANPUR T-2 11.000                        | 6      | 0.9575 | 10.532    |      | 72003     | KHANPUR T-3 11.000                          | 6      | 0.9723 | 10.696 |
| 72101 | MWORSHIA T-111.000                        | 6      | 0.9866 | 10.852    |      | 72102     | MWORSHIA T2 11.000                          | 6      | 1.0616 | 11.678 |
| 72103 | T-3 11.000                                | ĕ      | 1.0045 | 11.049    |      | 72111     | т-1 11.000                                  | 6      | 1.0057 | 11.063 |
| 72112 | T-2 11.000                                | ñ      | 1.0014 | 11.016    |      | 72121     | T-1 11.000                                  | 6      | 1.0024 | 11.026 |
| 72122 | T-2 11.000                                | ă      | 1.0024 | 11.026    |      | 72141     | T-1 11.000                                  | ĕ      | 0.9600 | 10.560 |
| 72142 | T-2 11 000                                | Ă      | 0.9600 | 10.560    |      | 72151     | T-1 11.000                                  | ő.     | 1.0086 | 11.094 |
| 72152 | $T_{-2}$ 11 000                           | 0<br>6 | 1 0093 | 11 102    |      | 72201     | R Y KHAN T-111 000                          | 6<br>6 | 1.0083 | 11.091 |
| 14775 | 1 2 3 1 1 000                             | U U    | T.0000 | TT * TO C |      | 1 2 7 0 1 | N. C. NUMBER 1 111.0000                     | 0      | 1.0000 |        |

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|-----------------------------------------------------------------------------------------------------------------|-------------------------------------|------------|-----------|--------------------------|-----------------------|
|                                                                                                                 |                                     |            |           |                          |                       |
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| •                                                                                                               |                                     |            | 0.00      | M                        |                       |
|                                                                                                                 |                                     |            | 2025      | >-WITH.txt               |                       |
|                                                                                                                 | 72202 R.Y.KHAN T-211.000            | 6 0.97     | 16 10.688 | 72203 R.Y.KHAN T-311.000 | 6 1.0135 11.149       |
|                                                                                                                 | 72204 - 11 000                      | 6 0 99     | 51 10 946 | 72251 R V KHN2 T-111 000 | 6 0 9753 10 728       |
|                                                                                                                 |                                     | 6 0 06     |           | 72252 + 7 = 11 000       | 6 1 0066 11 072       |
|                                                                                                                 | 72252 R.Y.KHNZ 1-211.000            | 0 0.90     | 55 IU.390 |                          | 0 1.0000 11.073       |
|                                                                                                                 | 72291 T-1 11.000                    | 6 0.97     | 36 10.764 | /2292 T-2 11.000         | 6 0.9786 IU.764       |
|                                                                                                                 | 72301 SADIQABD T-111.000            | 6 1.01     | 26 11.138 | 72302 SADIQABD T-211.000 | 6 1.0126 11.138       |
|                                                                                                                 | 72303 SADTOARD T-311.000            | 6 1.02     | 71 11,298 | 72304 LALPTR 11.000      | 6 1.0228 11.251       |
|                                                                                                                 | 72311 WALANA T-1 11 000             | ดัก จัจ.   | 80 10 978 | 72312 WALANA T-2 11 000  | 6 1 0036 11 040       |
|                                                                                                                 | 72311 WALANA 1 1 11.000             | C 0 00     | 16 10 000 | 723E2 NAWAZAD T 2 11 000 | C = 1  0100  11  120  |
|                                                                                                                 | 72351 NAWAZ 1-1 11.000              | 0 0.99     | 10 10.900 | 72552 NAWAZAB 1-2 II.000 | 0 1.0120 11.152       |
|                                                                                                                 | 72353 T-3 11.000                    | 6 1.01     | 51 11.166 | 72401 J.D.WALI T-111.000 | 6 0.9712 10.684       |
|                                                                                                                 | 72402 JDWALI T-2 11.000             | 6 1.00     | 22 11.024 | 72403 J D WALI T-311.000 | 6 1.0062 11.068       |
| 2                                                                                                               | 72501 MN.KH.RD T-111.000            | 6 1.01     | 12 11.124 | 72502 MN.KH.RD T-211.000 | 6 1.0063 11.070       |
|                                                                                                                 | 72503 MN KH PD T-311 000            | 6 1 01     | 12 11 124 | 72551 WAP TO T 1 11 000  | 6 1 0342 11 376       |
|                                                                                                                 | 72505 MM RH RD T $511.000$          |            | 77 11 001 | 72551 WAT TO T 1. 11.000 | 6 1 0006 11 006       |
|                                                                                                                 | 72552 WAPDA TU T-211.000            | 6 1.00     | 75 11.001 | 72554 1=5 11.000         | 0 1.0000 11.000       |
|                                                                                                                 | 72601 MN.BS.RD T-111.000            | 6 I.03     | 56 11.392 | 72602 MN.BS.RD T-211.000 | 6 0.9950 10.945       |
|                                                                                                                 | 72603 MN.BS.RD T-311.000            | 6 1.03     | 56 11.392 | 72604 T-4 11.000         | 6 1.0001 11.001       |
|                                                                                                                 | 72611 PNJB HSG T-111.000            | 6 1.01     | 34 11.148 | 72612 PNJB HSG T-211.000 | 6 1.0134 11.148       |
|                                                                                                                 | 72621 BUCH VIS T-111 000            | 6 1 02     | 84 11 312 | 72651 O BACH T-1 11 000  | 6 0 9904 10 894       |
|                                                                                                                 | 72621  both ves  11,000             | 6 0 00     | 57 11.512 | 72601 T 1 11 000         | 6 0 0008 10 808       |
|                                                                                                                 | 72032 Q BAGH 1-2 11.000             | 0 0.99     | 10.903    | $72091 1^{-1}$ $11.000$  | 0 0.9900 10.090       |
|                                                                                                                 | 72692 1-2 11.000                    | 6 0.99     | 08 TO 898 | 72701 MLN-IND I-1 11.000 | 6 1.0484 11.532       |
| · ·                                                                                                             | 72702 MLN-IND T-2 11.000            | 6 1.04     | 42 11.486 | 72703 MLN-IND T-3 11.000 | 6 1.0396 11.436       |
|                                                                                                                 | 72731 SURJ MNI T-111.000            | 6 1.03     | 99 11.439 | 72732 SURJ MNI T-211.000 | 6 1.0268 11.295       |
|                                                                                                                 | 72801 MN. VR. RD T-111.000          | 6 1.03     | 60 11.396 | 72802 MN.VR.RD T-211.000 | 6 1.0652 11.717       |
|                                                                                                                 | 72803 MN VP PD T-311 000            | 6 1 04     | 24 11 466 | $72804 T_{-4}$ 11 000    | 6 1 0108 11 119       |
|                                                                                                                 | 72000 MM VK KD 1 J11.000            | 6 1 04     | 1 11 540  | 72007 1 7 11000          | 6 1 0400 11 440       |
|                                                                                                                 | 72051 QASIMPUR 1-111.000            | $0 \pm 04$ | 91 11.340 | 72052 QASIMPUR 1-211.000 | $0 \pm 0402 \pm 1445$ |
|                                                                                                                 | 72853 QASIMPUR T-311.000            | 6 1.05     | 9/ 11.65/ | 72854 1-4 11.000         | 6 1.00/9 11.08/       |
|                                                                                                                 | 72871 M.J RD T-1 11.000             | 6 1.03     | 14 11.346 | 72872 M.J.RD T-2 11.000  | 6 1.0522 11.575       |
|                                                                                                                 | 72881 SHUJABAD T-111.000            | 6 1.03     | 38 11.372 | 72882 SHUJABAD T-211.000 | 6 1.0266 11.293       |
|                                                                                                                 | 72883 SHUJABAD T-311 000            | 6 1 03     | 75 11 412 | 72891 J.P.W T-1 11.000   | 6 1.0420 11.462       |
| st (1                                                                                                           | 72802 T P W T 2 11 000              | 6 1 04     | 13 11 454 | 72893 T P W T = 3 11 000 | 6 1 0476 11 523       |
|                                                                                                                 | 72001  MECCO T 1 11.000             | 61.04      | 10 11 010 | 72002  MESCO T  2 11 000 | 6 1 0627 11 755       |
|                                                                                                                 | 72901 MESCO T-1 11.000              |            | 99 11.410 | 72902 MESCU 1-2 II.000   | $0 \pm 0007 \pm 1773$ |
| 1. S. S. S. S. S. S. S. S. S. S. S. S. S.                                                                       | 72903 MESCO 1-3 11.000              | 6 1.03     | 95 11.452 |                          | 0 1.0119 11.131       |
|                                                                                                                 | /3112 T-2 11.000                    | 6 1.01     | 19 11.131 | 73201 GUJRAT.S TI 11.000 | 6 1.0224 11.246       |
|                                                                                                                 | 73202 GUJRAT.S T3 11.000            | 6 1.02     | 79 11.307 | 73203 GUJRAT.S T2 11.000 | 6 1.0216 11.237       |
|                                                                                                                 | 73251 LAYYAH T-1 11.000             | 6 1.01     | 12 11 124 | 73252 LAYYAH T-2 11.000  | 6 1.0112 11.124       |
|                                                                                                                 | $73253 \downarrow AVVAH T_3 11 000$ | 6 1 01     | 50 11 165 | 73281 KBCASHER T-111 000 | 6 1 0115 11 126       |
|                                                                                                                 | 72292 KDCACHED T 211 000            |            | 30 11 1/2 | 72201 MZEDCADU T 111 000 | 6 0 0778 10 756       |
| 2                                                                                                               | 72202 NDUASHER I-211.000            |            | CO 10 745 | 72202 MZERCARH T 211 000 | 0 0.3770 10.730       |
|                                                                                                                 | 73302 MZFRGARH 1-211.000            | 6 0.97     | 09 10./45 | 73303 MZFRGARH 1-311,000 | 0 0.9//8 10./20       |
|                                                                                                                 | /3312 KOTADU-O T-211,000            | 6 1.03     | /0 11.407 | 73313 KOTADU-O T-311.000 | 6 1.0299 11.329       |
|                                                                                                                 | 73314 KOTADU-O T-411.000            | 6 1.02     | 55 11.281 | 73321 N.A.WALI T-211.000 | 6 1.0310 11.341       |
|                                                                                                                 | 73322 N.A.WALT T-111.000            | 6 1.03     | 43 11.377 | 73323 T-3 11.000         | 6 1.0225 11.248       |
|                                                                                                                 | 73331 S S DTN T1 11 000             | 6 1 01     | 64 11 180 | 7332 S S DTN T2 11 000   | 6 0 9946 10 940       |
|                                                                                                                 | 72251 VOTCHITAN T111 000            |            | 57 11 166 | 72253 VOTCHITAN T211 000 | 6 1 0200 11 200       |
|                                                                                                                 | 75551 KUISULIAN-ILLL.UUU            | 0 1.01     | 05 10 2C0 | 73332 KUISULIAN-1211.000 | 0 1.0200 11.308       |
| 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - | 73361 KAROR L.E-T111.000            | 6 0.97     | 82 10.760 | /3362 KAROR L.E-T2       | 6 0.9782              |

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|---|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-----------|------------------------------------|---------------------------|
|   | 73401  | MEHRKHAS T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 0.9896 | 10.886    | 73402 MEHRKHAS T-211.000           | 6 1.0028 11.0             |
|   | 73403  | MEHRKHAS T-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ň      | 1 0039 | 101000    | 73501 DMR WALA T-111 000           | 6 0 9646 10 6             |
|   | 73502  | $\frac{1}{1000} = \frac{1}{1000} = 1$ | 6      | 0.0472 | 10 /10    | 73601 JATOTING T-111 000           |                           |
|   | 72602  | DMR WALA $1-211.000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6      | 0.9412 | 10.251    | 73602 + 2 11 000                   |                           |
|   | 70002  | JATOLINB 1-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0      | 0.9410 | 10.331    | $73003$ $1^{-3}$ 11.000            | 0 0.9400 10.4             |
|   | 73/01  | KHRPRSDI I-III.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0      | 0.9105 | 10.103    | 73702 KHPKSD1 1-2 11.000           | 6 0.9254 10.1             |
|   | 73951  | SHA.LND 1-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 1.0053 | 11.059    | 73952 SHA LND 1-2 11.000           | 6 0.9783 10.7             |
|   | 74001  | TAUNSA T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6      | 0.9768 | 10.745    | 74002 TAUNSA T-2 11.000            | 6 0.9768 10.7             |
|   | 74003  | T-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6      | 1.0055 | 11.061    | /4111 T-1 11.000                   | 6 0.9623 10.5             |
|   | 74121  | T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - 6    | 1.0154 | 11.170    | 74131 T-1 11.000                   | 6 1.0067 11.0             |
|   | 74141  | т-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6      | 1.0152 | 11.168    | 74161 T-1 11.000                   | 6 1.0109 11.1             |
|   | 74171  | T-1 11,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6      | 0.9720 | 10.692    | 74401 CHOKMNDA T-111.000           | 6 1.0199 11.2             |
|   | 74402  | CHOKMNDA T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 1.0144 | 11.159    | 74502 CHAUBARA T-211.000           | 6 1.0106 11.1             |
|   | 74562  | CHOKAZAM T1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 1.0194 | 11.213    | 74563 T-3 11.000                   | 6 0.9987 10.9             |
|   | 74591  | KHANGARH T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 0.9925 | 10.917    | 74592 KHANGARH T-211.000           | 6 0.9980 10.9             |
|   | 74602  | D.G.KHAN T-211.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 1.0159 | 11.175    | 74603 D.G.KHAN T-311.000           | 6 1.0187 11.2             |
|   | 74604  | D.G.KHAN T-411.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 1.0066 | 11.073    | 74641 T-1 11.000                   | 6 0.9879 10.8             |
|   | 74651  | KOTCHUTA T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -<br>6 | 0.9866 | 10.852    | 74652 KOTCHUTA T-211.000           | 6 0.9866 10.8             |
|   | 74653  | котснигта т311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ϊ Å    | 0.9910 | 10.901    | 74691 CHOTT T-1 11 000             | 6 0 9937 10 9             |
|   | 74701  | ROTHAN $T = 1  11  000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ĕ      | 1 0013 | 11,014    | 74731 - 1 11 000                   | 6 0 9907 10 8             |
|   | 75111  | $T_{-1}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ĕ      | 1 0075 | 11 083    | $75112 T_{-2}$ 11 000              | 6 0 9996 10 9             |
|   | 75001  | SKUTSPWP T-111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 0 00/3 | 10 803    | $75902 \text{ SVTSDWD T}_2 11,000$ | 6 0 0751 10.7             |
|   | 76111  | $T_{-1}$ 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6      | 1 00.8 | 11 007    | 77112 - 72112 - 11 (000)           | $6 \ 1 \ 0.97 \ 11 \ 0.7$ |
|   | 770111 | 1 - 1 $11 000$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0      | 0.0010 | 10 000    | 77912 VAZMAN T 2 11 000            |                           |
|   | 77011  | MADOOT T1 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0      | 1.0427 | 11 470    | 77012 YAZMAN 1-2 11.000            | 0 0.9910 10.9             |
|   | 77012  | MAROUT 11 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0      | 1.0427 | 10 012    | 77912 MAROUT 1-2 11.000            | 6 1.0209 11.2             |
|   | 70212  | 1-5 II.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0 0    | 0.9921 | 10.913    | 70311 FATEHPUR 1-111.000           | 6 0.9726 10.6             |
| 1 | 78312  | FATEPUR 1-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 0.9901 | 10.891    |                                    | 6 1.0203 11.2             |
|   | 78401  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6      | 0.9927 | 10.920    |                                    | 6 1.0209 11.2             |
|   | 79091  | D.G.K.11 T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 1.02/3 | LL.300    | 79092 D.G.K.II T-211.000           | 6 1.0329 11.3             |
|   | 79111  | T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6      | 1.0316 | 11.347    | 79112 T-2 11.000                   | 6 0.9786 10.7             |
|   | 79301  | JAMPUR T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6      | 0.9797 | 10.777    | 79302 JAMPUR T-2 11.000            | 6 1.0028 11.0             |
|   | 79331  | FAZALPUR T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 1.0055 | 11.060    | 79332 FAZALPUR T-211.000           | 6 0.9960 10.9             |
| 2 | 79511  | RAJANPUR T-111.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 1,0136 | 11.150    | 79512 RAJANPUR T-211.000           | 6 1.0136 11.1             |
|   | 79513  | RAJANPUR T-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6      | 1.0305 |           | 79741 UCH.SHRF T-211.000           | 6 0.9987 10.9             |
|   | 79742  | UCH.SHRF T-311.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | - 6    | 0.9776 | 10.753    | 79743 UCH.SHRF T-111.000           | 6 1.0035 11.0             |
|   | 79811  | ALI PUR T-1 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | - 6    | 0.8609 | 9.470     | 79812 ALIPUR T-2 11.000            | 6 0.8816 9.6              |
|   | 79813  | ALIPUR T-3 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6      | 0.9142 | 10.056    | 79821 T-1 11.000                   | 6 0.9416 10.3             |
|   | 79822  | T-2 11.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ğ      | 0.9416 | 10.358    | 79841 H.R. KAN T1 11 000           | 6 1.0337 11 3             |
|   | 79842  | T-2 11 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ř      | 1.0023 | 11.025    | 79904 T-4 11 000                   | 6 0 9984 10 9             |
|   | 79961  | ERT MNRO T-111 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6      | 1 0104 | 11 114    | $79962 T_{-2}$ 11 000              | 6 1 0101 11 1             |
| 7 | 777517 | 1.5M = 1.32  kV 1.32 00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - O    | 1 0105 | 174 58    | 15552 1 2 11,000                   | 0 1.0101 11.1             |
| 1 | 75776  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | v      | T.0700 | T 7 4 1 0 |                                    |                           |