MEPCO

ENLIGHTENING LIVES

POWER DISTRIBUTION

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

03rd 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

03 MAY 2021
Date: /05/2021

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

Subject: - **MULTIYEAR TARIFF PETITION (MYT) IN RESPECT OF MEPCO FOR DETERMINATION OF DISTRIBUTION TARIFF FOR FY 2020-21 TO FY 2024-25 – MEPCO (LICENSE # 06 DL/2002)**

Ref: - NEPRA letter Nos. NEPRA/R/ADG(Trf)/TRF-492/MEPCO-2019/46481-46483 dated 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. 8279
Date 5-5-2021

ENGR. IKRAM-UL-HAQ
Chief Executive Officer

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	Rs. 89,733/-
Net value of DD	Rs. 1,031,931/-

Account Payee Only

Allied Bank

0253 CHOWK RASHEEDABAD MTN

ABC No. BBB 14246842

Stationery/Ref No: ABC BBB14246843

0	8	0	5	2	1

On Demand Pay NEPRA ISLAMABAD**********

Rupees ONE MILLION THIRTY ONE THOUSAND NINE HUNDRED AND THIRTY ONE

ONLY

PKR ***1,031,931.00***

ALLIED BANKER'S CHEQUE

(Payable at any branch in Pakistan)

Please do not accept handwritten / tampered instrument In any case.

Authorized Signatory
7885 No.

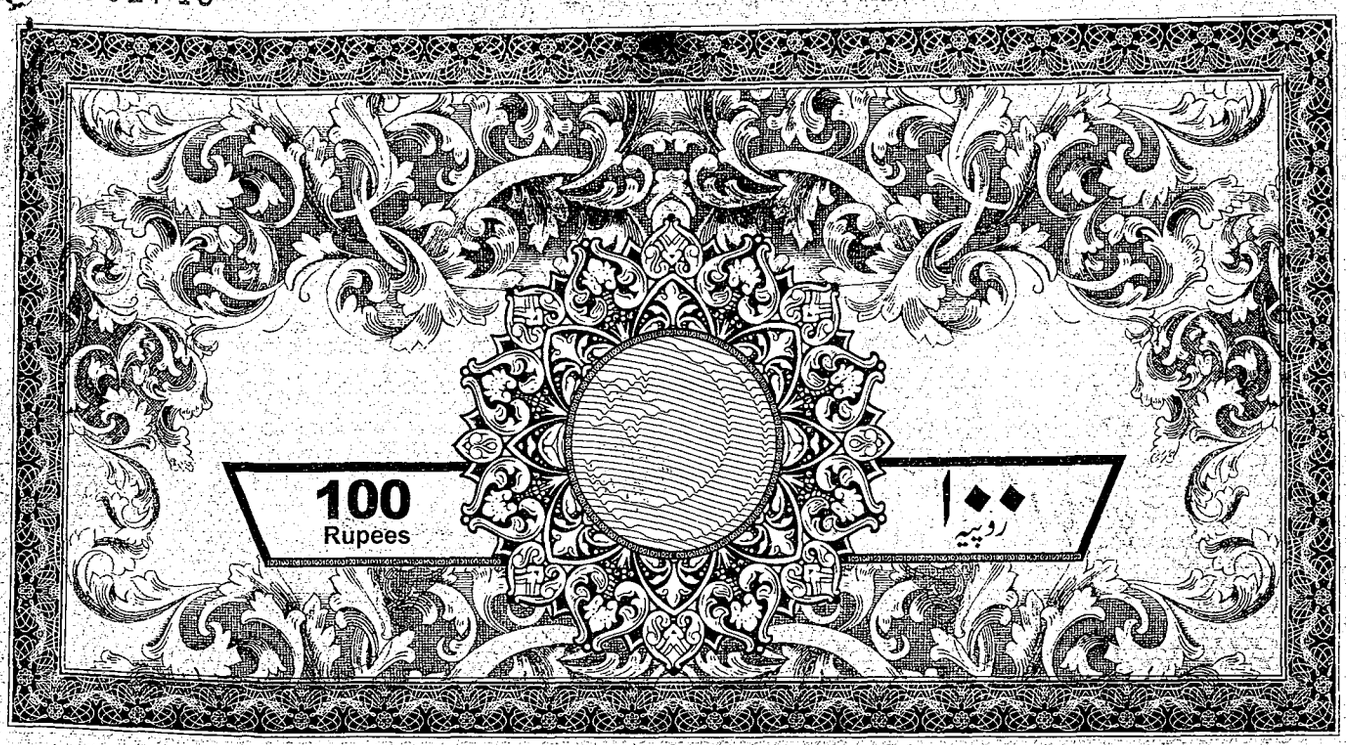
Authorized Signatory
7641 No.

Please do not write below this line.

⑈ 14246842⑈ 021400001:000175740001000⑈ 10⑈

AFFIDAVIT

AJ382745



Before the National Electric Power Regulatory Authority

Affidavit

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/29737 dated 3rd 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 3rd 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

Account Payee Only

Allied Bank

0253 CHOWK RASHEEDABAD MTN

ABC No. BBB 14246842

Stationery/Ref No: ABC BBB14246843

0	8	0	5	2	1	

On Demand Pay NEPRA ISLAMABAD***

Rupees ONE MILLION THIRTY ONE THOUSAND NINE HUNDRED AND THIRTY ONE ONLY

PKR ***1,031,931.00***

ALLIED BANKER'S CHEQUE

(Payable at any branch in Pakistan)

Please do not accept handwritten / tampered instrument in any case.

Authorized Signatory IBS No. 7846

Authorized Signatory IBS No. 7649

Please do not write below this line.

⑈14246842⑈014000⑆0001757400010000⑈010⑈

MULTAN ELECTRIC POWER COMPANY LIMITED

Tele: 061-9210352
PBX- 9210380-84

Office of the
Chief Executive Officer

NO. 10901 /Company Secy: Dated 30-9-2009

The Finance Director,
MEPCO H.Q. Multan.

Subject: - **AUTHORIZATION TO CHIEF EXECUTIVE OFFICER TO FILE THE TARIFF PETITION**

It is informed that the Board of Directors in its 59th 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

DIIP SUBMISSION

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/MYT Petition/ 29688-90

Date: 03 MAY 2021 /04/2021

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-HAQ
Chief Executive Officer
3/5/21 3/5/21

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

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: - **Guaranteed Standard 1 Urban (GS1U)** 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). **Overall Standard 2.** Minimization of System average interruption duration index (SAIDI). **Overall Standard 4.** Maintaining the Nominal voltage level of power system. **Overall Standard 5.** 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: - • Construction of new grid stations. • Construction of new transmission lines. • Up-gradation / conversion of 33 KV to 66 KV to 132KV grid stations. • Extension of grid stations. • Augmentation of power transformers. • HT proposals of overloaded, under constraints and

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 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**

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	Actual Pay & Allowances excl. Post Retirement Benefits	Amount Available for Post Retirement Benefits	Actual Post Retirement Benefits	Less Determined
2009-10	3,490	2,674	816	1,759	(943)
2010-11	4,014	3,687	327	2,009	(1,682)
2011-12	4,616	4,467	149	2,527	(2,378)
Total	**12,120**	**10,828**	**1292**	**6,295**	**(5,003)**

xiv. To provide project wise report for the investments carried out for the FY 2018-19 and for previous years i.e. FY 2016-17 & FY 2017-18 along-with its cost/benefit analysis and technical / financial savings achieved by March 31, 2020. Carry out detailed analysis about the hard and soft areas relative to claims in earlier studies.

Description		2015-16	2016-17	2017-18	Total
ELR	HT Proposals	11	49	21	81
	LT Proposals	319	516	311	1,146
	Total Exp. (Rs.)	1,183	1,538	1,654	4,375
DOP	HT Proposals	9	19	4	32
	Aug. of T/F	869	1,475	2,287	4,631
	Rep.of 2-Ph. T/F	388	526	249	1,163
	Total Exp. (Rs.)	851	1,318	1,099	3,268
STG	New Grids	1	2	1	4
	Conversions	1	4	3	8
	Augmentations	20	38	13	71
	Extensions	15	11	16	42
	T/Lines	8	9	9	26
	Total Exp. (Rs.)	3,387	4,038	3,553	10,978
Total	**Total Exp. (Rs.)**	**5,421**	**6,894**	**6,306**	**18,621**

xv. Take remedial measures for

MEPCO is the biggest distribution company having about 6.8

<table>
<tr><td>vi. To give clear disclosures in its Financial Statements with respect to the break-up of costs in terms of Distribution and Supply Businesses for the FY 2019-20 and onward.</td><td>The Financial Statements of MEPCO for FY 2019-20 were finalized before the receipt of this direction. However, this direction will be complied in financial statements of FY 2020-21.</td></tr>
<tr><td>vii. To ensure proper tagging of assets so that costs incurred are properly classified as per their nature and report be submitted to the Authority by June 30, 2021.</td><td>MEPCO is the largest DISCO in Pakistan with 09 Operation Circles, 02 GSO Circles, 02 M&T Circles and 38 Operation Divisions. The costs incurred for the rehabilitation, expansion and allied works are properly classified as per their nature into different categories of assets. The tagging of assets is a lengthy activity and report in this regard shall be submitted upon completing of the same.</td></tr>
<tr><td>viii. To provide the required details of late payment charges recovered from the consumers and any invoice raised by CPPA (G) under the head of mark-up on delayed payments for the period from FY 2014-15 to FY 2019-20, by March 31, 2021</td><td>Detail is as under
Rs. in Million
<table><tr><th>Financial Year</th><th>Late Payment Charges recovered from consumers</th><th>Markup on delayed payments raised by CPPA-G</th></tr><tr><td>2014-15</td><td>1,335</td><td>0</td></tr><tr><td>2015-16</td><td>825</td><td>825</td></tr><tr><td>2016-17</td><td>1,841</td><td>0</td></tr><tr><td>2017-18</td><td>2,087</td><td>1,642</td></tr><tr><td>2018-19</td><td>2,171</td><td>2,171</td></tr><tr><td>2019-20</td><td>1,848</td><td>1,848</td></tr></table></td></tr>
<tr><td>ix. To prepare schemes to cater for future demand and for removal of system overloading/constraints. A detailed report shall be submitted as part of its 5-years IGTDP for approval of the Authority before filing of next tariff petition as per requirement under NEPRA Guidelines for determination of Consumer End tariff (Methodology and Process) 2015.</td><td>The five year Distribution Company Integrated Investment Plan for FY 2020-21 to FY 2024-25 in respect of MEPCO has already been sent to NEPRA (letter attached).</td></tr>
<tr><td>x. To immediately provide electricity connections to all the pending applications without further delay and submit a progress report in this regard by the end of each quarter</td><td>MEPCO is vigorously pursuing installation of connections to all pending ripe applications.
Progress report of installation of new connections of each month is submitted regularly to NEPRA. Progress of installation of new connections of 03/2021 has been sent vide office letter No.19542-46 dated: 15.04.2021 (copy attached).</td></tr>
<tr><td>xi. To immediately establish a corporate desk to facilitate its corporate clients in terms of provision of electricity and to address the issues of overbilling, if any, on priority basis and submit report to the Authority by March 31, 2021</td><td>Director Commercial MEPCO Multan has been nominated as focal person to resolve the issue relating to Corporate Consumers vide letter No.48198-204 dated: 18.01.2021. Report is attached as Annex.-B.</td></tr>
<tr><td>xii. To target high loss feeders to bring the overall losses down. A detailed plan be prepared and submitted to the Authority by March 31, 2021, for monitoring the progress of MEPCO in this respect</td><td>MEPCO Distribution Integrated Investment Plan (DIIP) for FY 2020-21 to FY 2024-25 has already been sent to NEPRA (letter attached).</td></tr>
<tr><td>xiii. Transfer the already collected provision on account of Post-Retirement benefits into the Fund</td><td>MEPCO suffered a gap of Rs. 23,531/- Million in the actual provisions for post-retirement benefits as per audited Financial Statements and the amount allowed by NEPRA based on the</td></tr>
</table>

MULTAN ELECTRIC POWER COMPANY LIMITED

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

OFFICE OF THE FINANCE DIRECTOR

No. FDM/BS/Tariff / 29672

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 FY 2018-19 & 2019-20 FOR ITS DISTRIBUTION (WIRE) BUSINESS.**

Ref: - 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 F'Y 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.

lengthy 11KV feeders with high voltages drop and high losses will be executed in order to provide relief to the system.

- LT proposals.
- Augmentation / addition of distribution transformers.
- Maintenance of transmission lines, grid station, Power transformers and 11KV/LT lines and distribution transformers.
- Replacement of 2/phase transformers.

INVESTMENT DETAIL FOR FY 202-21

Budget Head	Description	Nos	Investment Amount (M PKR)	Yearly Saving (Mkwh)
ELR	HT Proposals Rehabilitation	57	2,130	107.98
	LT Proposals	591		
DOP	HT Proposals Connectivity	18	600	6.5
	Augmentation / Addition of Transformers	986		
	2-Phase Transformers Replacement	292		
STG	New Grids	5	3,207	36
	66KV to 132KV Conversions	2		
	Grid Stations Extensions	8		
	Augmentations of Power Transformers	17		
	New Transmission Lines	10 (131 KM)		

- MEPCO introduced the following portals to redress the all kind of complaints and voltage level & frequency complaints detail is as under: -

- MEPCO toll free No. 0800-63726.
- CCMS toll free No. 118.
- CCMS SMS service 8118.
- Federal complaint cell (FCC), Ministry of Energy (Power Division) Islamabad.
- Prime Minister's Delivery Unit (PMDU), Prime Minister's Office Islamabad complaints.
- Complaints centers in each sub-division / Division/ Circles for lodging and redressal of complaints.
- Complaints received through dak/email in MEPCO.

Overall Standard 3.

Installation of new connection within time frame.

- MEPCO trying its best to give new connection to its consumers within time limit.
- Giving priority to installation of new connection.

	Overall Standard 6. Observation of Priorities and principals load shedding. • MEPCO shall have plan and schedules available to shed up within the NEPRA Standards as per instructions from NTDC. **Overall Standard 7.** Promotion of Safety culture. • Safety committee meeting at Sub Divisional, Divisional, Circle and regional levels are being conducted regularly to promote safety culture among line staff. • 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. • MEPCO is providing very good quality T&P / PPE to line staff. MEPCO has nominated inspectors for national and international inspections of materials for quality assurance. • Safety instructions in Urdu are being sent to all SDOs, 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. • 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.

DA/as above.

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

TABLE OF CONTENTS

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
CAPM	Capital Asset Pricing Model	NTDCL	National Transmission and Despatch Company Ltd.
CPI	Consumer Price Index	O&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

LIST OF TABLES

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.

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.

1.1.4.2 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.

1.2.3 Summary of key parameters:

1.2.3.1 The petition includes the following key parameters:

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 coverage shall not be included in the tariff for the subsequent 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

		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, M&T circle, RRE/Construction Division, Regional Store, Construction Sub-Division, MIRAD and 05 new Operation Divisions, 36 new Operation 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.
8	**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.
9	**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).
10	**Capital Structure**	The debt/ equity ratio has been taken as 70:30 prescribed in NEPRA's MYT Guidelines 2015.
11	**Return on Equity (ROE)**	The ROE calculated on the basis of the Capital Asset Pricing Model (CAPM).
12	**Risk Free Rate**	The Risk Free Rate has been assumed as 8.3542% i.e. weighted average yield on 05 year Pakistan Investment Bond (PIB) as of June 25, 2020.
13	**Beta**	Beta computations are proposed to be based on the average beta @ 1.1 as used by NEPRA in previous determinations.
14	**Cost of Debt**	The cost of debt represents the actual cost to be incurred by the Company on debt financing.
15	**Regulatory Asset Base**	The Regulatory Asset Base (RAB) is based on a two year average of net operating fixed assets (OFA) of the Company.
16	**Prior year adjustments (PYA)**	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.
17	**Annual Adjustments in Return on Rate Base Computation**	It is requested that at the end of every year, NEPRA when adjusting RORB for variance between actual and budgeted CAPEX, also recalculate the WACC for changes in various input parameters including:

		- the risk free rate used for computing return on equity under the Capital Asset Pricing Model (CAPM) - variations in cost of debt
22	**Retirement Benefit Payments**	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: 1) 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). 2) For the Tariff Control Period, allow the projected provisions of staff retirement benefits subject to adjustment on actual basis.
23	**Network Rehabilitation**	1) 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.
24	**Network Expansion**	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.
iv) Finally, key conclusions and summary of key recommendations are provided.

2. TARIFF METHODOLOGY

2.1. Proposed Tariff Methodology

2.1.1 NEPRA Guidelines

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:

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:

$$\mathbf{DM(D) = RB(D) * RORB(D) + D(D) + E(D) + t(D) + ORC(D)}$$

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:

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

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).

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

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.

$$\mathbf{RORB = Rate\ base \times WACC}$$

Where,

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

The WACC is calculated as per the following formula:

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

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:

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

Where,

Ke is Return on equity

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

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	-	-	-	-	-
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**

The Average Tariff for Tariff Control Period is assessed as under:

Table 3.1 (a): Average Tariff for tariff 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	-	-	-	-
Total Revenue Requirement	**5.25**	**1.98**	**2.23**	**2.48**	**2.73**

3.2. Summary of Tariff Assumptions

3.2.1 **Pay & Allowances and Retirement Benefits:** The O&M Cost has been segregated into controllable and non-controllable components. The non-controllable 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.

3.2.8 **Opening Gross Fixed Assets:** The value of the Opening GFA used in the base year of the tariff period has 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**

3.3.2 Transmission & Distribution (T&D) Losses

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

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	1,095	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

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:

Table 3.7: Man power statistics (As of February 2021)

S. No	Description	Sanct'd	Actual Working Strength				Deficiency	%age
			Reg	Cont	Daily wages	Total		
Officers (BPS-17 and above)								
a.	Technical	419	360	-	-	360	59	14.08
b.	Non-Technical	138	111	-	-	111	27	19.57
	Sub-Total	**557**	**471**	**-**	**-**	**471**	**86**	**15.44**
Officials (BPS-01 to 16)								
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**
Total 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.

Table 3.8: New induction against creation of new offices

	FY 21	FY 22	FY 23	FY 24	FY 25
No. of Employees	423	537	611	685	987
Projected Annual Cost (Mil. Rs.)	148	307	416	422	642
Proj.Cost-Wire Business (Mil. Rs.)	121	251	340	345	524
Proj.Cost-Supply Business (Mil. Rs.)	27	56	76	77	118

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.

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 Retirement Benefits

	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.

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.

3.3.3.17 **Z factor for force majeure events**

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

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 2nd 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.

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:

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)

- 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:

Table 3.14- SAP / ERP

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**

- **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:**

MEPCO is to configure the existing billing system (CIS) with SAP. The Project will be outsourced and it wil 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**

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

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:

Table 3.16: Other Income Breakup (PKR Million)

	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	72	76	77
Reconnection fees	46	37	39	41	41
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
Other income	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**	**8,070**	**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 over-recovery 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 24th December, 2020 and notified by GoP w.e.f. 12th February, 2021. The prior year's adjustments pertaining to FY 2018-19, 2019-20 and any unrecovered/under-recovered 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 upto 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 post-retirement 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:

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

Year	Actual			Determined	Less Determined
	Pay & Allowance	Provision for PRB	Total		
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)**

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

Year	Actual			Determined	Less Determined
	Pay & Allowance	Provision for PRB	Total		
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 post-retirement 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-(PRB) Provisions & Allowed Gap 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**

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-Return on Rate Base (RORB) Less Allowed **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**

Table 3.22-PYA-Regulatory Asset Base (RAB) & RORB **RKR Million**

Description	2015-16	2016-17	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 134th 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 4th Q.FY 2019-20	437
Periodic Adjustments-1st Quarter FY 2020-21	6,809
Periodic Adjustments-2nd Quarter FY 2020-21	6,860
TOTAL	14,106

MEPCO was allowed Rs. 15,147 Million against PPP periodic adjustment for 4th 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 4th quarter of FY 2019-20. MEPCO has submitted PPP Periodic Adjustments for 1st & 2nd 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**

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%**		

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.

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.

$$\textit{Fuel Price Variation} = \textit{Actual Fuel Cost Component} - \textit{Reference Fuel Cost Component}$$

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

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.

5. SUMMARY AND CONCLUSION

5.1. SUMMARY

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

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-I)
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.

7. COMPLIANCE OF DIRECTIONS

MEPCO has submitted Compliance status of Authority's directions given in Tariff Determination dated 24th 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

FORM - 1

MEPCO

Company Statistics

	Unit	FY 2018-19 Actual	FY 2019-20 Actual	FY 2020-21 Projected	FY 2021-22 Projected	FY 2022-23 Projected	FY 2023-24 Projected	FY 2024-25 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

	Strength						
Number of Employees	FY 2018-19 Actual	FY 2019-20 Actual	FY 2020-21 Projected	FY 2021-22 Projected	FY 2022-23 Projected	FY 2023-24 Projected	FY 2024-25 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	10,985
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**

	COST						
Number of Employees	FY 2018-19 Actual	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 **Qualified Professionals**							
Engineers	590	683	565	695	757	843	943
Others	192	211	177	251	283	329	379
	782	**894**	**743**	**946**	**1,040**	**1,172**	**1,322**
B **Staff**							
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
	17,513	**20,885**	**18,936**	**22,626**	**25,904**	**29,316**	**33,129**
GRAND TOTAL	**18,295**	**21,779**	**19,679**	**23,571**	**26,944**	**30,488**	**34,451**

FORM - 2

MEPCO

Power Distribution Business

Profit & Loss Statement

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

DF - FORM 3

MEPCO

Power Distribution Business

Profit & Loss Statement *(F. Year 2018-19)*

		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
		Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
Power Balances																		
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**
Units Lost	[%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 Sold	[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	[Mln 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	[Mln 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	[Mln Rs]				-				-				-				-	-
Total Sales Revenue	[Mln Rs]	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	[Mln Rs]	18	19	18	**55**	13	10	8	**31**	9	8	9	**25**	13	15	16	**44**	**155**
Amortization of Def Credits	[Mln Rs]	313	334	320	**968**	227	174	151	**552**	161	139	152	**452**	222	273	293	**787**	**2,759**
Other Income	[Mln Rs]	169	180	172	**521**	122	94	81	**297**	87	75	82	**244**	120	147	158	**424**	**1,486**
Surcharge on Late Payment	[Mln Rs]	247	263	252	**762**	179	137	119	**434**	126	110	120	**356**	175	215	230	**620**	**2,171**
Total Revenue	[Mln Rs]	27,482	29,293	28,072	**84,847**	19,935	15,221	13,209	**48,366**	14,086	12,218	13,349	**39,653**	19,461	23,906	25,651	**69,017**	**241,884**
Operating Cost																		
Power Purchase Cost	[Mln 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	19,837	23,779	**62,502**	**225,725**
O&M Expenses	[Mln 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	2,419	**6,509**	**22,814**
Depreciation	[Mln Rs]	533	568	545	**1,646**	387	295	256	**938**	273	237	259	**769**	378	464	498	**1,339**	**4,693**
Amortization	[Mln Rs]	2	2	2	**6**	1	1	1	**3**	1	1	1	**3**	1	2	2	**5**	**17**
Provision for Bad Debt	[Mln 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	[Mln Rs]	247	263	252	**762**	179	137	119	**434**	126	110	120	**356**	175	215	230	**620**	**2,171**
Total Operating Cost	[Mln 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	[Mln Rs]	(782)	(990)	948	**(824)**	(1,567)	(1,217)	(3,761)	**(6,545)**	(3,448)	(1,953)	(3,780)	**(9,181)**	(2,373)	446	(2,015)	**(3,942)**	**(20,492)**
Financial Charges	[Mln Rs]	262	260	268	**810**	190	145	126	**462**	135	117	127	**379**	186	228	245	**659**	**2,310**
EBT	[Mln 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)**
Tax	[Mln Rs]	-	-	-	**-**	-	-	-	**-**	-	-	-	**-**	-	-	-	**-**	**-**
EAT	[Mln 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)**
WPPF	[Mln Rs]	-	-	-	**-**	-	-	-	**-**	-	-	-	**-**	-	-	-	**-**	**-**
Profit for the period	[Mln 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)**

FORM - 3 (A)

MEPCO

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

		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
		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	[Mln 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	[Mln 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	[Mln Rs]				-				-				-				-	-
Total Sales Revenue	[Mln 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	[Mln Rs]	18	18	19	**55**	12	9	8	**28**	8	8	7	**23**	12	16	17	**44**	**151**
Amortization of Def Credits	[Mln Rs]	352	360	372	**1,084**	230	177	149	**556**	158	162	132	**452**	226	304	331	**861**	**2,952**
Other Income	[Mln Rs]	255	261	270	**787**	167	129	108	**403**	115	117	96	**328**	164	221	240	**625**	**2,143**
Surcharge on Late Payment	[Mln Rs]	220	225	233	**678**	144	111	93	**348**	99	101	82	**283**	141	190	207	**539**	**1,848**
Total Revenue	[Mln 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	[Mln 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	[Mln 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**
Depreciation	[Mln Rs]	610	624	646	**1,880**	399	307	258	**964**	274	281	228	**783**	392	528	574	**1,494**	**5,121**
Amortization	[Mln Rs]	1	1	1	**4**	1	1	1	**2**	1	1	0	**2**	1	1	1	**3**	**10**
Provision for Bad Debt	[Mln Rs]	70	71	74	**214**	45	35	29	**110**	31	32	26	**89**	45	60	65	**170**	**584**
Supplemental Charges	[Mln Rs]	220	225	233	**678**	144	111	93	**348**	99	101	82	**283**	141	190	207	**539**	**1,848**
Total Operating Cost	[Mln 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	[Mln 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	[Mln Rs]	264	270	279	**812**	172	133	111	**416**	118	121	99	**338**	169	228	248	**645**	**2,212**
EBT	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,276	**1,276**	**1,276**
EAT	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Profit for the period	[Mln 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

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	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Power Balances																		
Units Received	[MkWh]	2,483	2,648	2,182	**7,313**	1,599	1,003	972	**3,574**	939	947	912	**2,798**	1,503	2,171	2,336	**6,010**	**19,695**
Units Lost	[MkWh]	483	604	73	**1,160**	298	4	130	**432**	46	34	165	**244**	222	442	455	**1,119**	**2,954**
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%	**8.7%**	14.8%	20.4%	19.5%	**18.6%**	**15.0%**
Units Sold	[MkWh]	2,000	2,045	2,109	**6,153**	1,301	999	842	**3,142**	893	913	747	**2,554**	1,281	1,729	1,881	**4,891**	**16,741**
Revenue																		
Sales Revenue	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel Price Adjustment	[Mln Rs]				-				-				-				-	-
Total Sales Revenue	[Mln 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	[Mln Rs]	18	19	19	**57**	12	9	8	**29**	8	8	7	**24**	12	16	17	**45**	**154**
Amortization of Def Credits	[Mln Rs]	384	392	405	**1,180**	250	192	162	**603**	171	175	143	**490**	246	332	361	**938**	**3,212**
Other Income	[Mln Rs]	225	230	237	**692**	146	112	95	**353**	100	103	84	**287**	144	194	211	**550**	**1,882**
Surcharge on Late Payment	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Revenue	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O&M Expenses	[Mln 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	[Mln Rs]	680	696	717	**2,093**	442	340	287	**1,069**	304	311	254	**869**	436	588	640	**1,664**	**5,695**
Amortization	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Provision for Bad Debt	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplemental Charges	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating Cost	[Mln 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	[Mln Rs]	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**
Financial Charges	[Mln Rs]	239	245	252	**736**	156	120	101	**376**	107	109	89	**306**	153	207	225	**585**	**2,003**
EBT	[Mln 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**
Tax	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EAT	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Profit for the period	[Mln 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**

FORM - 3 (C)

MEPCO

Profit & Loss Statement *(Test Year 2021-22)*

		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	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Power Balances																		
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	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel Price Adjustment	[Mln Rs]				-				-				-				-	-
Total Sales Revenue	[Mln 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	[Mln Rs]	17	17	18	**52**	11	8	7	**27**	8	8	6	**22**	11	15	16	**41**	142
Amortization of Def Credits	[Mln Rs]	419	428	442	**1,289**	272	209	176	**658**	187	191	156	**535**	268	362	394	**1,024**	3,506
Other Income	[Mln Rs]	214	219	225	**658**	139	107	90	**336**	96	98	80	**273**	137	185	201	**523**	1,790
Surcharge on Late Payment	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Revenue	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O&M Expenses	[Mln 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
Depreciation	[Mln Rs]	763	780	805	**2,348**	496	381	321	**1,199**	341	349	285	**974**	489	660	718	**1,866**	6,388
Amortization	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Provision for Bad Debt	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplemental Charges	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating Cost	[Mln 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**	32,155
EBIT	[Mln 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	[Mln Rs]	207	212	218	**638**	135	104	87	**326**	93	95	77	**265**	133	179	195	**507**	1,735
EBT	[Mln Rs]	785	802	828	**2,415**	510	392	331	**1,233**	351	359	293	**1,002**	503	679	738	**1,920**	6,570
Tax	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EAT	[Mln Rs]	785	802	828	**2,415**	510	392	331	**1,233**	351	359	293	**1,002**	503	679	738	**1,920**	6,570
WPPF	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Profit for the period	[Mln Rs]	785	802	828	**2,415**	510	392	331	**1,233**	351	359	293	**1,002**	503	679	738	**1,920**	6,570

FORM - 3 (D)

MEPCO

Profit & Loss Statement *(Test Year 2022-23)*

		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	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Power Balances																		
Units Received	(MkWh)	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	(Mln 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	(Mln Rs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel Price Adjustment	(Mln Rs)				-				-				-				-	-
Total Sales Revenue	(Mln 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	(Mln Rs)	18	19	19	**57**	12	9	8	**29**	8	8	7	**24**	12	16	17	**45**	**155**
Amortization of Def Credits	(Mln Rs)	459	469	483	**1,411**	298	229	193	**720**	205	209	171	**585**	294	396	431	**1,121**	**3,838**
Other Income	(Mln Rs)	225	230	237	**693**	146	113	95	**354**	101	103	84	**288**	144	195	212	**551**	**1,885**
Surcharge on Late Payment	(Mln Rs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Revenue	(Mln 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																		
Power Purchase Cost	(Mln Rs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O&M Expenses	(Mln 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	(Mln Rs)	855	874	901	**2,630**	556	427	360	**1,343**	382	390	319	**1,092**	548	739	804	**2,091**	**7,155**
Amortization	(Mln Rs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Provision for Bad Debt	(Mln Rs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplemental Charges	(Mln Rs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating Cost	(Mln 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	(Mln 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	(Mln Rs)	178	182	188	**548**	116	89	75	**280**	80	81	67	**227**	114	154	168	**436**	**1,491**
EBT	(Mln 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	(Mln Rs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EAT	(Mln 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	(Mln Rs)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Profit for the period	(Mln 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

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

		Month 1 Projected	Month 2 Projected	Month 3 Projected	1st Qrt Projected	Month 4 Projected	Month 5 Projected	Month 6 Projected	2nd Qrt Projected	Month 7 Projected	Month 8 Projected	Month 9 Projected	3rd Qrt Projected	Month 10 Projected	Month 11 Projected	Month 12 Projected	4th Qrt Projected	Total Projected
Power Balances																		
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	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel Price Adjustment	[Mln Rs]				-				-				-				-	-
Total Sales Revenue	[Mln 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	[Mln Rs]	19	19	20	**58**	12	9	8	**30**	8	9	7	**24**	12	16	18	**46**	**159**
Amortization of Def Credits	[Mln Rs]	497	508	523	**1,527**	323	248	209	**780**	222	227	185	**634**	318	429	467	**1,214**	**4,156**
Other Income	[Mln Rs]	238	244	251	**734**	155	119	100	**375**	106	109	89	**304**	153	206	224	**583**	**1,996**
Surcharge on Late Payment	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Revenue	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O&M Expenses	[Mln 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	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Provision for Bad Debt	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplemental Charges	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating Cost	[Mln 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	[Mln 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	[Mln Rs]	151	155	160	**466**	98	76	64	**238**	68	69	57	**193**	97	131	142	**370**	**1,266**
EBT	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EAT	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Profit for the period	[Mln 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**

FORM - 3 (F)

MEPCO

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

		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	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Power Balances																		
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	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fuel Price Adjustment	[Mln Rs]				-				-				-				-	-
Total Sales Revenue	[Mln 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	[Mln Rs]	19	20	20	**59**	12	10	8	**30**	9	9	7	**24**	12	16	18	**47**	**160**
Amortization of Def Credits	[Mln Rs]	535	547	564	**1,646**	348	267	225	**841**	239	244	200	**683**	343	463	503	**1,309**	**4,479**
Other Income	[Mln Rs]	251	257	265	**774**	164	126	106	**395**	112	115	94	**321**	161	217	236	**615**	**2,105**
Surcharge on Late Payment	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Revenue	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O&M Expenses	[Mln 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**	2,626	3,815	4,150	**10,791**	**36,935**
Depreciation	[Mln Rs]	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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Provision for Bad Debt	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supplemental Charges	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating Cost	[Mln 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	[Mln 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	[Mln Rs]	130	133	137	**400**	85	65	55	**204**	58	59	49	**166**	83	112	122	**318**	**1,088**
EBT	[Mln 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**
Tax	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EAT	[Mln 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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Profit for the period	[Mln 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**

DF - FORM 4

MEPCO

Power Distribution Business

Balance Sheet [in million Rupees]

Description	Previous FY as on June 30, 2019	Current FY as on (B) Year June 30, 2020	Projected FY as on June 30, 2021	Projected FY as on June 30, 2022	Projected FY as on June 30, 2023	Projected FY as on June 30, 2024	Projected FY as on June 30, 2025
Intangible Fixed Assets	10,102						
Net Fixed Assets in Operations	97,990	102,632	116,390	130,990	147,128	163,121	178,774
Total Net Fixed Assets in Operations	**98,000**	**102,632**	**116,390**	**130,990**	**147,128**	**163,121**	**178,774**
Capital Work in Progress	10,899	15,040	13,694	16,383	18,460	18,783	19,117
Long Term Loans to Employees	81	81	111	151	196	251	311
Deferred Cost & Long Term Deposits	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	10,980	15,122	13,806	16,534	18,656	19,035	19,429
Current Assets							
Stores & Spares	8,103	6,329	6,265	6,140	6,079	6,687	7,422
Trade Debts	29,489	51,202	25,978	25,527	19,990	15,939	9,277
Advances, Prepayments, Other Receivables	350	321	20,838	20,629	20,423	21,036	23,350
Tariff Subsidy (Receivable from GoP)	57,165	94,229	80,049	73,014	65,887	58,664	50,888
Receivable from Associated Companies& Others	6,783	4,779	-	-	-	-	-
Cash & Bank Balances	10,458	17,368	886	895	921	940	1,015
Total Current Assets	112,348	174,227	134,016	126,205	113,300	103,265	91,953
Total Assets	**221,328**	**291,980**	**264,211**	**273,730**	**279,084**	**285,422**	**290,155**
Subscribed Equity	42,161	42,161	35,508	35,508	35,508	35,508	35,508
Unappropriated Profit	(133,587)	(127,537)	(77,859)	(81,659)	(83,227)	(82,294)	(80,087)
Total Equity	**(91,426)**	**(85,376)**	**(42,351)**	**(46,152)**	**(47,719)**	**(46,786)**	**(44,579)**
Long Term Liability							
Security Deposits	9,180	10,179	10,688	11,116	11,449	11,564	11,679
Employee Retirement Benefits	79,175	80,583	95,726	110,815	125,808	140,911	157,287
Sukok etc.			-	-	-	-	-
Deferred Credits	57,195	59,724	65,245	70,500	76,125	81,448	86,675
Total Long Term Loan	8,811	8,118	7,225	6,329	5,496	5,044	4,617
Total Long Term Liability	154,362	158,604	178,885	198,760	218,877	238,966	260,258
Current Liability							
Current Maturity on Long Term Loans	5,376	6,032	6,720	7,007	7,054	6,562	5,553
Accrued Mark up	9,293	10,789	11,862	12,186	12,097	11,627	10,306
Provision for Taxation & WPPF		1,276	1,276	-	-	-	-
Receipt Against Deposit work	20,723	25,803	26,298	26,587	26,873	26,492	23,046
Payable to NTDC/CPPA	104,090	155,443	50,802	39,086	28,639	20,499	10,597
Creditors, Accrued and Other Liabilities	18,911	19,410	30,719	36,255	33,063	28,061	24,975
Total Current Liability	158,393	218,752	127,677	121,121	107,926	93,243	74,476
Total Liabilities and Commitments	**312,755**	**377,356**	**306,562**	**319,881**	**326,804**	**332,208**	**334,735**
Total Liabilities and Equity	221,329	291,981	264,211	273,730	279,084	285,422	290,155

DM - FORM 5
MEPCO

Power Distribution Business

Cashflow Statement [in million Rupees]

Description		PROJECTED for (T) Year ending June 30, 2021	PROJECTED for (T) Year ending June 30, 2022	PROJECTED for (T) Year ending June 30, 2023	PROJECTED for (T) Year ending June 30, 2024	PROJECTED for FY ending June 30, 2025
Average Monthly Demand Index (MDI)	[MW]	4,041	4,230	4,443	4,666	4,900
Units Purchased	[GWh]	19,695	20,697	21,110	21,533	21,964
Transmission Losses (132 kV)	[GWh]	271	290	284	280	286
Distribution Losses	[GWh]	2,683	2,763	2,798	2,842	2,877
Units Sold to Customers	[GWh]	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*
Revenue from Sales		87,902.88	35,021.18	40,245.65	45,629.00	51,344.88
Collection from Required	[%]	100.00	100.00	100.00	100.00	100.00
Inflows from Operations						
Collection from Current Sales		87,902.88	35,021.18	40,245.65	45,629.00	51,344.88
Prior Year Recovery		29,169.23	14,584.62	14,584.62	-	-
Total Inflows from Operations		*117,072.11*	*49,605.80*	*54,830.26*	*45,629.00*	*51,344.88*
Outflow from Operations						
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*	*33,934.5*
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						
Total Inflows from Other Sources		*11,264.39*	*10,982.00*	*11,787.62*	*11,252.62*	*11,810.62*
Outflow Others						
Financial Charges		2,002.92	1,734.67	1,490.84	1,266.49	1,087.87
Repayment of Long Term Loans		204.81	608.28	786.71	944.05	1,434.95
Investment Program		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
Total Outflows (Operations + Others)		144,818.66	60,578.94	66,591.05	56,863.20	63,080.31
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						
Closing Balance		885.76	894.62	921.46	939.89	1,015.08

FORM - 6

MEPCO

This Format Relates to Power Supply Business

Power Distribution Business

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	[MW]	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]													-
Capacity Purchase Price	[Rs/ kW/ M]													-
Transmission Charge	[Rs/ kW/ M]													-
Market Operator Fee	[Rs/ kW/ M]													-
Power Purchase Cost														
Energy Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Capacity Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Transmission Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Market Operator Fee	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Power Purchase Cost	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-

FORM - 6 (A)

MEPCO

Power Purchase ***(Actual F.Y. 2019-20)***

		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]	2,465	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]													-
Transmission Charge	[Rs/ kW/ M]													-
Market Operator Fee	[Rs/ kW/ M]													-
		-	-	-	-	-	-	-	-	-	-	-	-	
Power Purchase Cost														
Energy Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Capacity Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Transmission Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Market Operator Fee	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Power Purchase Cost	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-

FORM - 6 (B)

MEPCO

Power Purchase *(Projected F.Y. 2020-21)*

		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]	2,483	2,648	2,182	1,599	1,003	972	939	947	912	1,503	2,171	2,336	19,695
MDI	[MW]	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]													-
Capacity Purchase Price	[Rs/ kW/ M]													-
Transmission Charge	[Rs/ kW/ M]													-
Market Operator Fee	[Rs/ kW/ M]													-
Power Purchase Cost														
Energy Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Capacity Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Transmission Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Market Operator Fee	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Power Purchase Cost	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-

FORM - 6 (C)

MEPCO

Power Purchase *(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
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	[MW]	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]													-
Power Purchase Cost														
Energy Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Capacity Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Transmission Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Market Operator Fee	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Power Purchase Cost	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-

FORM - 6 (D)

MEPCO

Power Purchase *(Projected F.Y. 2022-23)*

		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]	2,693	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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Capacity Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Transmission Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Market Operator Fee	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Power Purchase Cost	[Mln 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	[Rs/ kW/ M]													-
Power Purchase Cost														
Energy Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Capacity Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Transmission Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Market Operator Fee	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Power Purchase Cost	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-

FORM - 6 (F)

MEPCO

Power Purchase *(Projected F.Y. 2024-25)*

		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]	2,802	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	[MW]	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	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Capacity Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Transmission Charge	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Market Operator Fee	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Power Purchase Cost	[Mln Rs]	-	-	-	-	-	-	-	-	-	-	-	-	-

DF - FORM 7

MEPCO

Line Losses *(F.Y. 2018-19)*

Power Distribution Business

		Month 1 Actual	Month 2 Actual	Month 3 Actual	Month 4 Actual	Month 5 Actual	Month 6 Actual	Month 7 Actual	Month 8 Actual	Month 9 Actual	Month 10 Actual	Month 11 Actual	Month 12 Actual	Total
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 Levels														
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**

FORM - 7 (A)

MEPCO

Line Losses *(Actual T.Year. 2019-20)*

		Month 1 Actual	Month 2 Actual	Month 3 Actual	Month 4 Actual	Month 5 Actual	Month 6 Actual	Month 7 Actual	Month 8 Actual	Month 9 Actual	Month 10 Actual	Month 11 Actual	Month 12 Actual	Total
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	[MkWh]	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 Levels														
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**

FORM - 7 (B)

MEPCO

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

		Month 1 Projected	Month 2 Projected	Month 3 Projected	Month 4 Projected	Month 5 Projected	Month 6 Projected	Month 7 Projected	Month 8 Projected	Month 9 Projected	Month 10 Projected	Month 11 Projected	Month 12 Projected	Total
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	**16,741**
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 Levels		-	-	-	-	-	-	-	-	-	-	-	-	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

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

		Month 1 Projected	Month 2 Projected	Month 3 Projected	Month 4 Projected	Month 5 Projected	Month 6 Projected	Month 7 Projected	Month 8 Projected	Month 9 Projected	Month 10 Projected	Month 11 Projected	Month 12 Projected	Total
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 Levels														
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**

FORM - 7 (D)

MEPCO

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

		Month 1 Projected	Month 2 Projected	Month 3 Projected	Month 4 Projected	Month 5 Projected	Month 6 Projected	Month 7 Projected	Month 8 Projected	Month 9 Projected	Month 10 Projected	Month 11 Projected	Month 12 Projected	Total
Power Balances														
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 Levels														
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)*

		Month 1 Projected	Month 2 Projected	Month 3 Projected	Month 4 Projected	Month 5 Projected	Month 6 Projected	Month 7 Projected	Month 8 Projected	Month 9 Projected	Month 10 Projected	Month 11 Projected	Month 12 Projected	Total
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 Levels														
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**

FORM - 7 (F)

MEPCO

Line Losses * *(Projected F.Y. 2024-25)*

		Month 1 Projected	Month 2 Projected	Month 3 Projected	Month 4 Projected	Month 5 Projected	Month 6 Projected	Month 7 Projected	Month 8 Projected	Month 9 Projected	Month 10 Projected	Month 11 Projected	Month 12 Projected	Total
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 Losses at Different Levels														
Transmission Losses 132 kV	[%age]	1.96	2.01	1.82	1.00	0.93	0.88	0.77	-0.07	-0.20	0 34	1.44	1.65	**1.30**
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
Operational and Technical Information

	2018-19 (Actual)	2019-20 (Actual)	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

Power Distribution Business

DF - FORM 9 MEPCO

Projected FY 2020-21

Average Rate per Unit Purchased and Sold

- 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/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]	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 + 10.18)		[Rs/kWh]	1.7660
10.22	Estimated Revenue from Energy Sold/Wheeled (10.15 + 10.19)		[,000,000 Rs]	29,564
10.23	Prior Period Adjustement (Uncovered Costs)		[,000,000 Rs]	58,338
10.24	Required Estimated Revenue from Energy Sold/Wheeled (10.22 + 10.23)		[,000,000 Rs]	87,903

FORM - 9 (A)

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

11.01 Use of System Charges (NTDC)

11.02	Month	Year	Demand [kW]	Fixed Use of System Rate [Rs/kW]	Fixed Use of System Charges [Rs]	Energy [kWh]	MoF [Rs/kWh]	MoF [Rs]	Sum Use of System Charges [Rs]
11.03	1	2	3	4	5 = 3 x 4	6	7	8 = 3 x 7	9=5+8
11.04	Jul	16		174.699	-		1.461	-	-
11.05	Aug	16		174.699	-		1.461	-	-
11.06	Sep	16		174.699	-		1.461	-	-
11.07	Oct	16		174.699	-		1.461	-	-
11.08	Nov	16		174.699	-		1.461	-	-
11.09	Dec	16		174.699	-		1.461	-	-
11.10	Jan	17		174.260	-		1.461	-	-
11.11	Feb	17		168.903	-		1.461	-	-
11.12	Mar	17		170.618	-		1.461	-	-
11.13	Apr	17		171.962	-		1.461	-	-
11.14	May	17		172.549	-		1.461	-	-
11.15	Jun	17		172.515	-		1.461	-	-
11.16									
11.17	Avg per month [MW]								

11.18 Capacity and Energy

11.19	Month	Year	Capacity Charge [Rs]	Energy Charge [Rs]	Sum of all Charges [Rs]	Use Of System Rate per kWh [Rs/kWh]	Capacity Rate per kWh [Rs/kWh] 15 = 11 /	Energy Rate per kWh [Rs/kWh]	Final Rate per kWh [Rs/kWh]
11.20	1	2	11	12	13 = 9+11+12	14 = 9 / 6	6	16 = 12 / 6	17 = 13 / 6
11.21	Jul	16	12,918,114,381	9,219,825,417	22,137,939,798				
11.22	Aug	16	17,229,809,184	11,451,760,195	28,681,569,379				
11.23	Sep	16	11,940,713,963	9,447,297,954	21,388,011,917				
11.24	Oct	16	9,797,646,042	6,527,748,249	16,325,394,291				
11.25	Nov	16	10,232,392,395	3,578,278,534	13,810,670,929				
11.26	Dec	16	9,616,358,255	5,175,916,626	14,792,274,881				
11.27	Jan	17	9,381,277,492	6,178,946,517	15,560,224,009				
11.28	Feb	17	10,567,614,777	4,714,218,422	15,281,833,199				
11.29	Mar	17	8,972,122,729	4,687,210,775	13,659,333,504				
11.30	Apr	17	11,476,139,287	7,896,872,493	19,373,011,780				
11.31	May	17	12,977,279,918	10,793,121,612	23,770,401,530				
11.32	Jun	17	13,418,348,967	14,246,060,834	27,664,409,802				
11.33									
11.34	Avg Cap. Charge =								

DF - FORM 9 MEPCO

Projected FY 2021-22

Average Rate per Unit Purchased and Sold
- 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/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]	17,644
10.18	Average Energy Rate per Unit Sold = (10.15 / 10.17)		[Rs/kWh]	-
10.19	Distribution Margin		[,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]	-
10.24	Required Estimated Revenue from Energy Sold/Wheeled (10.22 + 10.23)		[,000,000 Rs]	35,021

FORM - 9 (A)

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

11.01 Use of System Charges (NTDC)

	Month	Year	Demand [kW]	Fixed Use of System Rate [Rs/kW]	Fixed Use of System Charges [Rs]	Energy [kWh]	MoF [Rs/kWh]	MoF [Rs]	Sum Use of System Charges [Rs]
11.02									
11.03	1	2	3	4	5 = 3 x 4	6	7	8 = 3 x 7	9=5+8
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					-				
11.17		Avg per month [MW]			Avg per month [MWh]				

11.18 Capacity and Energy

	Month	Year	Capacity Charge	Energy Charge	Sum of all Charges	Use Of System Rate per kWh	Capacity Rate per kWh	Energy Rate per kWh	Final Rate per kWh [Rs/kWh]
11.19									
11.20	1	2	11	12	13 = 9+11+12	14 = 9 / 6	15 = 11 / 6	16 = 12 / 6	17 = 13 / 6
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			-				
11.32	Jun	17			-				
11.33					-				
11.34		Avg Cap. Charge =				-	-	-	-

DF - FORM 9 MEPCO — Projected FY 2022-23

Average Rate per Unit Purchased and Sold

- Weighted Average Cost per Unit Sold to Customers

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)		[#]	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 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]	18,028
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

FORM - 9 (A)

Table 11 - CPPA Charges: Use of System, Capac

11.01 Use of System Charges (NTDC)

	Month	Year	Demand [kW]	Fixed Use of System Rate [Rs/kW]	Fixed Use of System Charges [Rs]	Energy [kWh]	MoF [Rs/kWh]	MoF [Rs]	Sum Use of System Charges [Rs]
11.02									
11.03	1	2	3	4	5 = 3 x 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									

11.17 Avg per month [MW] _____ Avg per month [MWh] _____

11.18 Capacity and Energy

	Month	Year	Capacity Charge	Energy Charge	Sum of all Charges	Use Of System Rate per kWh	Capacity Rate per kWh	Energy Rate per kWh	Final Rate per kWh
11.19			[Rs]	[Rs]	[Rs]	[Rs/kWh]	[Rs/kWh] 15 = 11 / 6	[Rs/kWh]	[Rs/kWh] 17 = 13 / 6
11.20	1	2	11	12	3 = 9+11+1	14 = 9 / 6		16 = 12 / 6	
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							
11.32	Jun	17							
11.33									

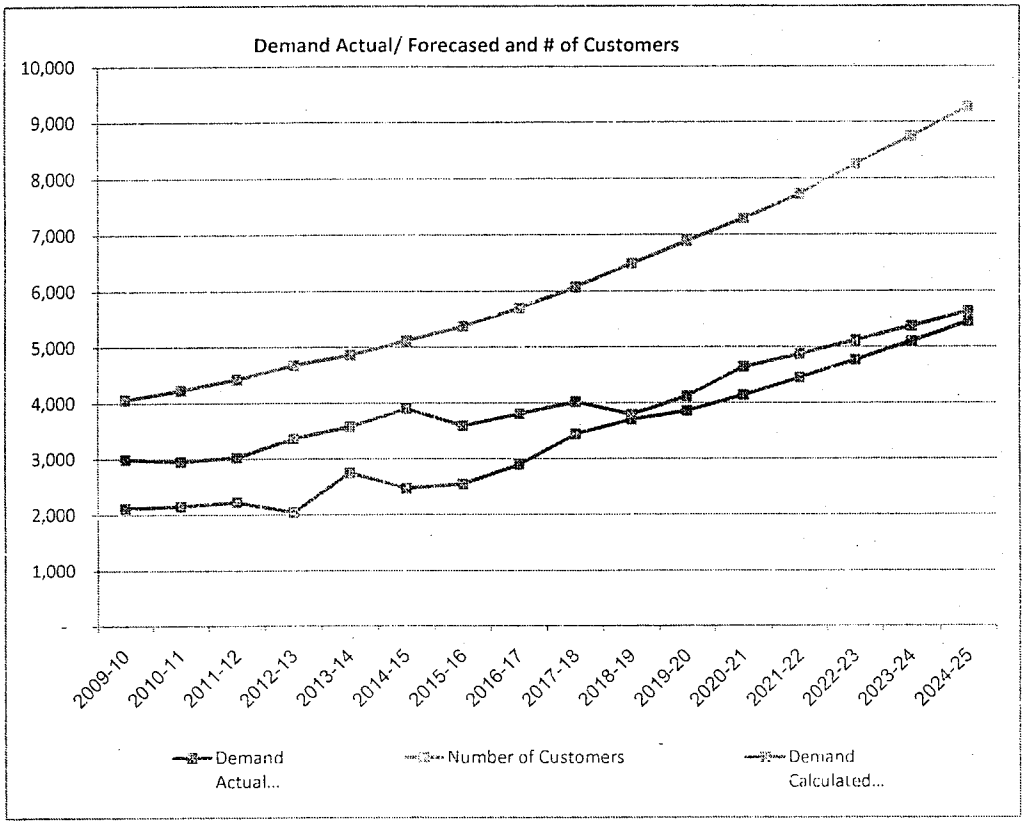
11.34 Avg Cap. Charge = _____

This format relates to Power Supply Business
Power Distribution Business

DF - FORM 10
MEPCO
Demand (Actual and Calculated) and Number of Customers

A. Actuals for Demands and Number of Customers
B. Forecasted Demands and Number of Customers using regression analysis

Sr.#	Fiscal Year	Demand Actual /Forecast [,000 kW]	Change %age	Demand Calculated /Forecast [,000 kW]	Change %age	Number of Customers [,000]	Change %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%

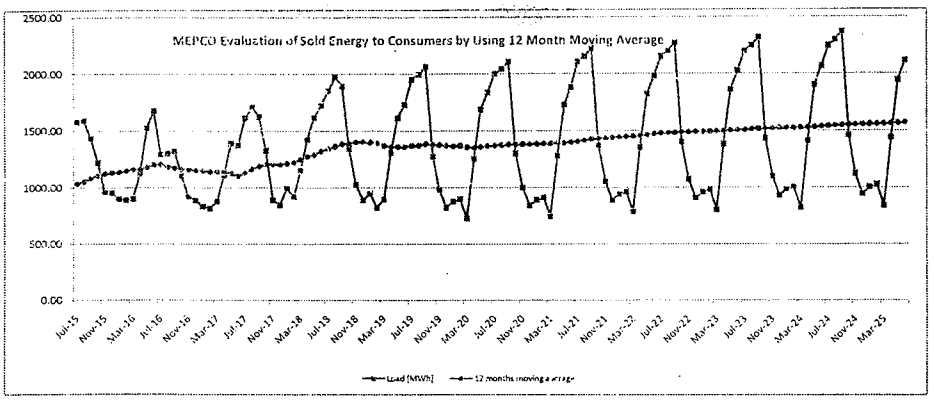


DF - FORM 11
MEPCO
Evaluation of Energy Sold and Setting up Average Energy Sold

This format relates to Power Supply Business
Power Distribution Business

Table/Graph 14 - Evaluation of Energy Sold and Setting up Average Energy Sold

Month	Load [MWh]	12 months moving average
Jul-15	1579.91	1,037.35
Aug-15	1591.79	1,055.88
Sep-15	1432.87	1,086.61
Oct-15	1218.53	1,106.58
Nov-15	960.81	1,123.88
Dec-15	953.85	1,130.51
Jan-16	901.05	1,139.42
Feb-16	893.85	1,147.91
Mar-16	903.09	1,162.72
Apr-16	1125.12	1,160.46
May-16	1525.59	1,180.95
Jun-16	1677.07	1,203.37
Jul-16	1297.34	1,206.73
Aug-16	1304.00	1,182.75
Sep-16	1322.56	1,173.58
Oct-16	1107.81	1,164.33
Nov-16	922.58	1,161.16
Dec-16	887.89	1,155.66
Jan-17	836.43	1,150.28
Feb-17	817.98	1,143.95
Mar-17	879.79	1,142.01
Apr-17	1112.16	1,140.93
May-17	1390.94	1,129.71
Jun-17	1373.71	1,104.43
Jul-17	1614.61	1,130.87
Aug-17	1707.26	1,164.48
Sep-17	1626.11	1,189.77
Oct-17	1327.06	1,208.04
Nov-17	890.16	1,205.34
Dec-17	848.73	1,202.08
Jan-18	995.73	1,215.35
Feb-18	923.15	1,224.12
Mar-18	1153.98	1,246.97
Apr-18	1423.90	1,272.94
May-18	1617.42	1,291.82
Jun-18	1725.11	1,321.10
Jul-18	1853.06	1,340.97
Aug-18	1975.14	1,363.30
Sep-18	1892.85	1,385.52
Oct-18	1344.19	1,386.95
Nov-18	1026.34	1,398.30
Dec-18	890.65	1,401.79
Jan-19	949.78	1,397.96
Feb-19	823.86	1,389.69
Mar-19	900.08	1,368.53
Apr-19	1312.19	1,359.22
May-19	1611.89	1,358.76
Jun-19	1729.57	1,359.13
Jul-19	1,952.25	1,367.40
Aug-19	1,996.81	1,369.21
Sep-19	2,065.80	1,383.62
Oct-19	1,275.00	1,377.85
Nov-19	982.70	1,374.22
Dec-19	825.27	1,368.77
Jan-20	877.62	1,362.75
Feb-20	897.99	1,368.93
Mar-20	730.14	1,354.77
Apr-20	1,253.80	1,349.90
May-20	1,687.64	1,356.22
Jun-20	1,836.91	1,365.16
Jul-20	2,001.83	1,369.29
Aug-20	2,046.25	1,373.41
Sep-20	2,110.29	1,377.12
Oct-20	1,301.63	1,379.34
Nov-20	1,000.28	1,380.80
Dec-20	843.11	1,382.29
Jan-21	893.91	1,383.65
Feb-21	914.24	1,385.00
Mar-21	747.79	1,386.47
Apr-21	1,282.14	1,388.84
May-21	1,730.42	1,392.40
Jun-21	1,882.61	1,396.21
Jul-21	2,108.11	1,405.07
Aug-21	2,154.88	1,414.12
Sep-21	2,222.32	1,423.45
Oct-21	1,370.73	1,429.21
Nov-21	1,053.38	1,433.64
Dec-21	887.87	1,437.37
Jan-22	941.36	1,441.32
Feb-22	962.78	1,445.37
Mar-22	787.49	1,448.67
Apr-22	1,350.20	1,454.35
May-22	1,822.28	1,462.00
Jun-22	1,982.56	1,470.33
Jul-22	2,154.05	1,474.16
Aug-22	2,201.85	1,478.07
Sep-22	2,270.75	1,482.11
Oct-22	1,400.60	1,484.60
Nov-22	1,076.34	1,486.51
Dec-22	907.22	1,488.12
Jan-23	961.88	1,489.83
Feb-23	983.76	1,491.58
Mar-23	804.65	1,493.01
Apr-23	1,379.63	1,495.46
May-23	1,862.00	1,498.77
Jun-23	2,025.76	1,502.37
Jul-23	2,199.71	1,506.18
Aug-23	2,248.52	1,510.07
Sep-23	2,318.88	1,514.08
Oct-23	1,430.29	1,516.55
Nov-23	1,099.16	1,518.46
Dec-23	926.45	1,520.06
Jan-24	982.27	1,521.76
Feb-24	1,004.61	1,523.49
Mar-24	821.70	1,524.92
Apr-24	1,408.87	1,527.35
May-24	1,901.46	1,530.64
Jun-24	2,068.70	1,534.22
Jul-24	2,246.32	1,538.10
Aug-24	2,296.17	1,542.07
Sep-24	2,368.02	1,546.17
Oct-24	1,460.60	1,548.69
Nov-24	1,122.45	1,550.64
Dec-24	946.09	1,552.27
Jan-25	1,003.08	1,554.01
Feb-25	1,025.90	1,555.78
Mar-25	839.12	1,557.23
Apr-25	1,438.73	1,559.72
May-25	1,941.76	1,563.08
Jun-25	2,112.54	1,566.73



DF - FORM 9 MEPCO — Projected FY 2023-24

Average Rate per Unit Purchased and Sold

- Weighted Average Cost per Unit Sold to Customers

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)		[#]	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 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]	18,411
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 (10.15 + 10		[,000,000 Rs]	45,629
10.23	Prior Period Adjustement (Uncovered Costs)		[,000,000 Rs]	-
10.24	Required Estimated Revenue from Energy Sold/Wheeled (		[,000,000 Rs]	45,629

FORM - 9 (A)

Table 11 - CPPA Charges; Use of System, Capac

11.01 Use of System Charges (NTDC)

				Fixed Use of System Rate	Fixed Use of System Charges				Sum Use of System Charges
11.02	Month	Year	Demand [kW]	[Rs/kW]	[Rs]	Energy [kWh]	MoF [Rs/kWh]	MoF [Rs]	[Rs]
11.03	1	2	3	4	5 = 3 x 4	6	7	8 = 3 x 7	9=5+8
11.04	Jul	16		313.107	-		1.461	-	-
11.05	Aug	16		311.228	-		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/0!	-			-	-
11.17	Avg per month [MW]			Avg per month [MWh]					

11.18 Capacity and Energy

			Capacity Charge	Energy Charge	Sum of all Charges	Use Of 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	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							
11.32	Jun	17							
11.33									
11.34	Avg Cap. Charge =					-	-	-	-

DF - FORM 9 MEPCO — Projected FY 2024-25

Average Rate per Unit Purchased and Sold
- Weighted Average Cost per Unit Sold to Customers

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)		[#]	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 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]	-
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 +		[Rs/kWh]	2.7310
10.22	Estimated Revenue from Energy Sold/Wheeled (10.15 + 10		[,000,000 Rs]	51,345
10.23	Prior Period Adjustement (Uncovered Costs)		[,000,000 Rs]	-
10.24	Required Estimated Revenue from Energy Sold/Wheeled (		[,000,000 Rs]	51,345
				-

FORM - 9 (A)

Table 11 - CPPA Charges: Use of System, Capac

11.01 Use of System Charges (NTDC)

			Demand	Fixed Use of System Rate	Fixed Use of System Charges	Energy	MoF	MoF	Sum Use of System Charges
11.02	Month	Year	[kW]	[Rs/kW]	[Rs]	[kWh]	[Rs/kWh]	[Rs]	[Rs]
11.03	1	2	3	4	5 = 3 x 4	6	7	8 = 3 x 7	9=5+8
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/0!	-			-	-

11.17 Avg per month [MW] _____ Avg per month [MWh] _____

11.18 Capacity and Energy

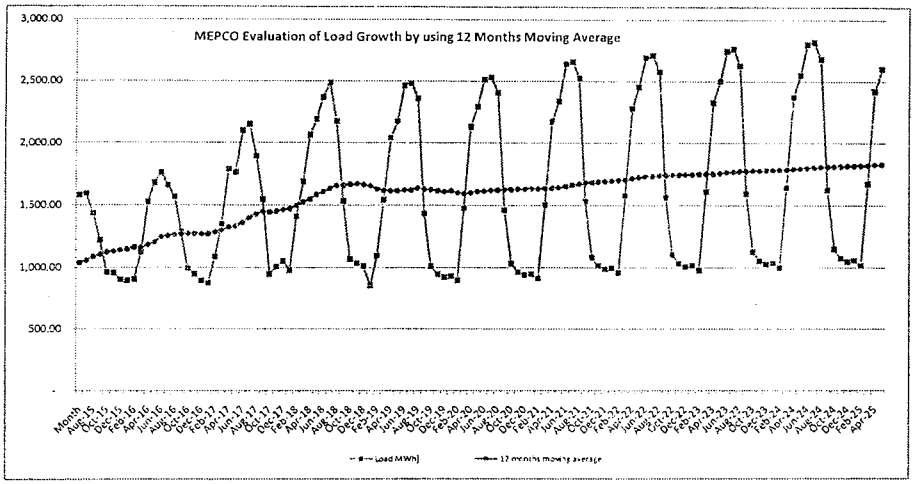
			Capacity Charge	Energy Charge	Sum of all Charges	Use Of System Rate per kWh	Capacity Rate per kWh	Energy Rate per kWh	Final Rate per kWh
11.19	Month	Year	[Rs]	[Rs]	[Rs]	[Rs/kWh]	[Rs/kWh] 15 = 11 /	[Rs/kWh]	[Rs/kWh] 17 = 13 /
11.20	1	2	11	12	3 = 9+11+1	14 = 9 / 6	6	16 = 12 / 6	6
11.21	Jul	16							
11.22	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							
11.32	Jun	17							
11.33									
11.34	Avg Cap. Charge = _____					-	-	-	-

DF - FORM 12
MEPCO
Load Growth Evaluation and Setting up Load Average

This format relates to Power Supply Business
Power Distribution Business

Table/Graph 13 - Load Growth Evaluation and Setting up Load Average

Month	Load MWh]	12 months moving average
Jul-15	1,579.91	1,037.35
Aug-15	1,591.79	1,055.88
Sep-15	1,432.87	1,086.61
Oct-15	1,218.53	1,106.58
Nov-15	960.61	1,123.88
Dec-15	953.85	1,130.51
Jan-16	901.05	1,139.42
Feb-16	893.85	1,147.91
Mar-16	903.08	1,162.72
Apr-16	1,125.12	1,160.46
May-16	1,525.59	1,180.95
Jun-16	1,677.07	1,203.37
Jul-16	1,761.76	1,245.43
Aug-16	1,657.71	1,250.92
Sep-16	1,566.35	1,262.05
Oct-16	1,284.13	1,267.51
Nov-16	992.29	1,270.15
Dec-16	947.36	1,269.61
Jan-17	892.64	1,268.91
Feb-17	872.20	1,267.11
Mar-17	1,083.92	1,282.18
Apr-17	1,345.90	1,300.58
May-17	1,786.34	1,322.31
Jun-17	1,760.83	1,329.29
Jul-17	2,098.36	1,357.34
Aug-17	2,149.82	1,398.34
Sep-17	1,892.12	1,425.49
Oct-17	1,545.63	1,447.28
Nov-17	944.00	1,443.26
Dec-17	1,005.46	1,448.10
Jan-18	1,047.99	1,461.05
Feb-18	973.97	1,469.53
Mar-18	1,407.96	1,496.53
Apr-18	1,686.80	1,524.94
May-18	2,064.63	1,548.13
Jun-18	2,189.25	1,583.83
Jul-18	2,369.45	1,606.42
Aug-18	2,486.34	1,634.47
Sep-18	2,172.37	1,657.82
Oct-18	1,531.30	1,656.63
Nov-18	1,067.95	1,666.95
Dec-18	1,034.09	1,669.34
Jan-19	1,009.79	1,666.16
Feb-19	852.25	1,656.01
Mar-19	1,095.72	1,629.99
Apr-19	1,540.16	1,617.77
May-19	2,037.33	1,615.50
Jun-19	2,169.91	1,613.89
Jul-19	2,465.35	1,621.88
Aug-19	2,481.77	1,621.50
Sep-19	2,358.69	1,637.03
Oct-19	1,429.92	1,528.58
Nov-19	1,009.92	1,623.74
Dec-19	944.46	1,616.27
Jan-20	920.34	1,608.82
Feb-20	928.52	1,615.17
Mar-20	893.93	1,598.36
Apr-20	1,473.55	1,592.81
May-20	2,128.64	1,600.42
Jun-20	2,289.78	1,610.41
Jul-20	2,514.66	1,614.52
Aug-20	2,531.41	1,618.65
Sep-20	2,405.86	1,622.58
Oct-20	1,458.52	1,624.97
Nov-20	1,029.97	1,626.64
Dec-20	963.35	1,628.21
Jan-21	938.75	1,629.75
Feb-21	947.03	1,631.29
Mar-21	911.81	1,632.78
Apr-21	1,503.02	1,635.23
May-21	2,171.22	1,638.78
Jun-21	2,335.58	1,642.60
Jul-21	2,640.39	1,653.08
Aug-21	2,657.98	1,663.62
Sep-21	2,526.16	1,673.65
Oct-21	1,531.44	1,679.73
Nov-21	1,081.47	1,684.02
Dec-21	1,011.51	1,688.03
Jan-22	985.69	1,691.94
Feb-22	994.38	1,695.89
Mar-22	957.40	1,699.69
Apr-22	1,578.17	1,705.95
May-22	2,279.78	1,715.00
Jun-22	2,452.36	1,724.73
Jul-22	2,693.20	1,729.13
Aug-22	2,711.14	1,733.56
Sep-22	2,576.68	1,737.77
Oct-22	1,562.07	1,740.32
Nov-22	1,102.10	1,742.04
Dec-22	1,031.74	1,743.73
Jan-23	1,005.40	1,745.37
Feb-23	1,014.26	1,747.03
Mar-23	976.55	1,748.62
Apr-23	1,609.73	1,751.25
May-23	2,325.37	1,755.05
Jun-23	2,501.41	1,759.14
Jul-23	2,747.06	1,763.63
Aug-23	2,765.36	1,768.14
Sep-23	2,628.21	1,772.44
Oct-23	1,593.31	1,775.04
Nov-23	1,125.16	1,776.96
Dec-23	1,052.38	1,778.68
Jan-24	1,025.51	1,780.36
Feb-24	1,034.55	1,782.05
Mar-24	996.08	1,783.63
Apr-24	1,641.93	1,786.36
May-24	2,371.88	1,790.24
Jun-24	2,551.43	1,794.41
Jul-24	2,802.01	1,798.98
Aug-24	2,820.67	1,803.59
Sep-24	2,680.78	1,807.97
Oct-24	1,625.18	1,810.63
Nov-24	1,147.87	1,812.51
Dec-24	1,073.43	1,814.26
Jan-25	1,046.02	1,815.97
Feb-25	1,055.24	1,817.69
Mar-25	1,016.00	1,819.35
Apr-25	1,674.77	1,822.09
May-25	2,419.32	1,826.04
Jun-25	2,602.46	1,830.30



DF - FORM 13

Power Distribution Business

Asset register as the year ended at date June 30, 2018

No.	Description	Cost			Accumulated Depreciation				Book Value as on June 30, 2018
		As at July 01, 2017	Addition/ deletions	As at June 30, 2018	As at July 01, 2017	Charge during the year	Adjustments	As at June 30, 2018	
A.	Land								
1	Freehold	353,603,002	5,076,000	358,679,002	0	0	0	0	358,679,002
2	Leasehold	2,277,338	0	2,277,338	790,164	0	0	790,164	1,487,174
	Total	355,880,340	5,076,000	360,956,340	790,164	0	0	790,164	360,166,176
B.	Buildings	0	0	0	0	0	0	0	0
1	Residential Buildings	1,360,553,771	118,104,079	1,478,657,850	111,480,693	27,761,853	0	139,242,545	1,339,415,305
2	Non-Residential Buildings	1,343,512,706	122,470,463	1,465,983,169	333,097,394	27,523,885	0	360,621,280	1,105,361,890
3	GSO Residential Buildings	963,936,999	79,997,000	1,043,933,999	462,782,487	19,599,897	0	482,382,385	561,551,615
4	Non-GSO Residential Buildings	44,396,703	3,208,808	47,605,511	843,727	893,795	0	1,737,523	45,867,989
	Total	3,712,400,180	323,780,350	4,036,180,530	908,204,302	75,779,430	0	983,983,732	3,052,196,798
C.	Sub Transmission	0	0	0	0	0	0	0	0
1	132 KV Sub Transmission Lines	7,983,462,375	756,438,718	8,739,901,093	2,765,805,799	286,705,449	0	3,052,511,247	5,687,389,845
2	66 KV Sub Transmission Lines	231,537,969	0	231,537,969	192,839,001	7,595,417	0	200,434,418	31,103,551
3	33 KV Sub Transmission Lines	0	0	0	0	0	0	0	0
	Total	8,215,000,344	756,438,718	8,971,439,062	2,958,644,800	294,300,866	0	3,252,945,666	5,718,493,396
D.	Grid Station	0	0	0	0	0	0	0	0
1	132 KV Grid Station	15,739,834,570	1,586,812,964	17,326,647,534	4,109,668,615	568,386,782	0	4,678,055,397	12,648,592,137
2	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
3	33 KV Grid Station	0	0	0	0	0	0	0	0
	Total	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	0	0	0	0	0	0	0	0
1	11 KV Poles	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
2	11KV Line	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
3	Distribution Transformer	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
	Total	49,755,932,179	4,677,809,917	54,433,742,097	15,568,517,796	1,785,655,271	0	17,354,173,067	37,079,569,030
F.	LV Distribution Equipments	0	0	0	0	0	0	0	0
1	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
2	440 LV Distribution Line	0	0	0	0	0	0	0	0
3	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
4	KWh Meters & 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
5	Misc. Equipment	15,364,668,051	1,232,385,861	16,597,053,912	5,526,744,950	517,233,384	0	6,043,978,334	10,553,075,577
	Total	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.	Vehicles	0	0	0	0	0	0	0	0
1	132/66/33 KV GSO Vehicles	291,746,888	10,314,829	302,061,717	147,905,946	13,214,994	0	161,120,940	140,940,777
2	Vehicles	692,820,067	24,212,332	717,032,399	580,338,513	32,090,900	0	612,429,413	104,602,986
	Total	984,566,955	34,527,161	1,019,094,116	728,244,459	45,305,894	0	773,550,353	245,543,763
H.	Detail of General Plant Assets	0	0	0	0	0	0	0	0
1	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
4	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								
	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

DF - FORM 13

Asset register as the year ended at date June 30, 2019

No.	Description	Cost			Accumulated Depreciation				Book Value as on June 30, 2019
		As at July 01, 2018	Addition/ deletions	As at June 30, 2019	As at July 01, 2018	Charge during the year	Adjustments	As at June 30, 2019	
A.	Land								
1	Freehold	358,679,002	37,177,432	395,856,434	0	0	0	0	395,856,434
2	Leasehold	2,277,338	0	2,277,338	790,164	0	0	790,164	1,487,174
	Total	360,956,340	37,177,432	398,133,772	790,164	0	0	790,164	397,343,608
B.	Buildings	0	0	0	0	0	0	0	0
1	Residential Buildings	1,478,657,850	109,675,378	1,588,333,228	139,242,545	30,137,905	0	169,380,450	1,418,952,778
2	Non-Residential Buildings	1,465,983,169	113,730,148	1,579,713,317	360,621,280	29,879,571	0	390,500,850	1,189,212,467
3	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
4	Non-GSO Residential Buildings	47,605,511	2,979,806	50,585,318	1,737,523	970,292	0	2,707,815	47,877,503
	Total	4,036,180,530	300,673,209	4,336,853,739	983,983,732	82,265,161	0	1,066,248,893	3,270,604,846
C.	Sub Transmission	0	0	0	0	0	0	0	0
1	132 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
2	66 KV Sub Transmission Lines	231,537,969	24,423,058	255,961,027	73,329,612	8,375,923	0	81,705,535	174,255,492
3	33 KV Sub Transmission Lines	0	0	0	0	0	0	0	0
	Total	8,971,439,062	946,324,163	9,917,763,225	2,841,314,302	324,543,254	0	3,165,857,556	6,751,905,669
D.	Grid Station	0	0	0	0	0	0	0	0
1	132 KV Grid Station	17,325,647,534	1,827,647,171	19,154,294,705	5,487,464,285	626,794,268	0	6,114,258,553	13,040,036,152
2	66 KV Grid Station	1,370,509,239	144,563,876	1,515,073,115	434,049,373	49,578,393	0	483,627,766	1,031,445,349
3	33 KV Grid Station	0	0	0	0	0	0	0	0
	Total	18,697,156,773	1,972,211,047	20,669,367,820	5,921,513,658	676,372,661	0	6,597,886,319	14,071,481,501
E.	11 KV Distribution Equipments	0	0	0	0	0	0	0	0
1	11 KV Poles	8,521,462,678	898,859,813	9,420,322,491	2,698,803,794	308,265,286	0	3,007,069,080	6,413,253,410
2	11KV Line	18,512,256,289	1,952,707,399	20,464,963,687	5,862,954,448	669,683,856	0	6,532,638,303	13,932,325,384
3	Distribution Transformer	27,515,858,797	2,902,424,222	30,418,283,018	8,714,455,126	995,390,628	0	9,709,845,754	20,708,437,264
	Total	54,549,577,764	5,753,991,433	60,303,569,196	17,276,213,368	1,973,339,770	0	19,249,553,138	41,054,016,058
F.	LV Distribution Equipments	0	0	0	0	0	0	0	0
1	LV Poles	6,920,512,169	729,988,560	7,650,500,729	2,191,772,141	250,350,643	0	2,442,122,784	5,208,377,945
2	440 LV Distribution Line	0	0	0	0	0	0	0	0
3	220 LV Distribution Line	10,170,635,776	1,072,817,674	11,243,453,449	3,221,107,861	367,924,389	0	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	0	5,856,798,243	12,490,943,940
	Total	41,762,940,274	4,405,233,008	46,168,173,282	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	0	174,228,067	127,833,649
2	Vehicles	717,032,399	3,496,100	720,528,499	612,429,413	31,828,962	0	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
H.	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	0	0	0
4	Laboratory Equipment	304,569	169,910	474,479	56,479	32,106	0	88,585	385,894
5	Misc. Equipment	73,559,667	40,064,950	113,624,617	13,660,649	7,751,917	0	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

DF - FORM 13

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

132,808,051

No.	Description	Cost			Accumulated Depreciation				Book Value as on June 30, 2020
		As at July 01, 2019	Addition/ deletions	As at June 30, 2020	As at July 01, 2019	Charge during the year	Adjustments	As at June 30, 2020	
A.	Land								
1	Freehold	395,856,434	-	395,856,434	0	0	0	0	395,856,434
2	Leasehold	2,277,338	0	2,277,338	790,164	0	0	790,164	1,487,174
	Total	398,133,772	0	398,133,772	790,164	0	0	790,164	397,343,608
B.	Buildings	0	0	0	0	0	0	0	0
1	Residential Buildings	1,588,333,228	91,062,439	1,679,395,667	169,380,450	32,054,548	0	201,434,999	1,477,960,669
2	Non-Residential Buildings	1,579,713,317	90,568,242	1,670,281,559	390,500,850	31,880,588	0	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	3,162,436,168	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	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
2	Vehicles	720,528,499	27,048,129	747,576,628	644,258,375	31,653,426	0	675,911,800	71,664,827
	Total	1,022,590,215	38,387,311	1,060,977,527	818,486,442	44,923,252	0	863,409,694	197,567,833
H.	Detail of General Plant Assets	0	0	0	0	0	0	0	0
1	Computer Equipment	562,711,052	35,924,213	598,635,265	226,914,045	46,343,625	0	273,257,670	325,377,596
2	Furniture/Work shop/Mis.Equip.	802,181,022	51,212,291	853,393,313	420,408,356	66,065,837	0	486,474,193	366,919,120
3	Workshop Equipment	0	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
5	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								
	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

DF - FORM 13

Asset register as the year ended at date June 30, 2021 (Projected)

No.	Description	Cost			Accumulated Depreciation				Book Value as on June 30, 2021
		As at July 01, 2020	Addition/ deletions	As at June 30, 2021	As at July 01, 2020	Charge during the year	Adjustments	As at June 30, 2021	
A.	Land								
1	Freehold	395,856,434	41,099,403	436,955,837	0	0	0	0	436,955,837
2	Leasehold	2,277,338	236,442.37	2,513,780	790,164	0	0	790,164	1,723,616
	Total	398,133,772	41,335,845	439,469,617	790,164	0	0	790,164	438,679,453
B.	Buildings	0	0	0	0	0	0	0	0
1	Residential Buildings	1,679,395,667	174,361,595	1,853,757,262	201,434,999	35,049,317	0	236,484,316	1,617,272,947
2	Non-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
	Total	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
C.	Sub Transmission	0	0	0	0	0	0	0	0
1	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
	Total	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	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
E.	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	8,174,546,159	1,036,197,258	9,210,743,417	2,714,185,588	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	0	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
H.	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	0	0	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

DF - FORM 13

Asset register as the year ended at date June 30, 2022 (Projected)

No.	Description	Cost			Accumulated Depreciation				Book Value as on June 30, 2022
		As at July 01, 2021	Addition/ deletions	As at June 30, 2022	As at July 01, 2021	Charge during the year	Adjustments	As at June 30, 2022	
A.	Land								
1	Freehold	436,955,837	42,753,975	479,709,812	0	0	0	0	479,709,812
2	Leasehold	2,513,780	245,961.02	2,759,741	790,164	0	0	790,164	1,969,577
	Total	439,469,617	42,999,936	482,469,553	790,164	0	0	790,164	481,679,389
B.	Buildings	0	0	0	0	0	0	0	0
1	Residential 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	GSO 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
	Total	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
C.	Sub Transmission	0	0	0	0	0	0	0	0
1	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
	Total	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	0	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
	Total	24,884,677,528	3,016,940,542	27,901,618,070	8,151,173,384	917,457,268	0	9,068,630,652	18,832,987,418
E.	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	0	8,050,023,523	16,717,627,781
	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
H.	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	0	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

DF - FORM 13

Asset register as the year ended at date June 30, 2023 (Projected)

No.	Description	Cost			Accumulated Depreciation				Book Value as on June 30, 2023
		As at July 01, 2022	Addition/ deletions	As at June 30, 2023	As at July 01, 2022	Charge during the year	Adjustments	As at June 30, 2023	
A.	Land								
1	Freehold	479,709,812	48,061,159	527,770,971	0	0	0	0	527,770,971
2	Leasehold	2,759,741	276,492.92	3,036,234	790,164	0	0	790,164	2,246,070
	Total	482,469,553	48,337,652	530,807,205	790,164	0	0	790,164	530,017,041
B.	Buildings	0	0	0	0	0	0	0	0
1	Residential Buildings	2,035,138,274	203,896,399	2,239,034,674	274,963,035	42,333,825	0	317,296,861	1,921,737,813
2	Non-Residential Buildings	2,024,093,545	202,789,850	2,226,883,395	495,510,437	42,104,079	0	537,614,516	1,689,268,880
3	GSO Residential Buildings	1,432,782,553	143,547,595	1,576,330,148	577,992,263	29,803,953	0	607,796,216	968,533,932
4	Non-GSO Residential Buildings	64,815,188	6,493,703	71,308,891	6,070,415	1,348,250	0	7,418,664	63,890,226
	Total	5,556,829,560	556,727,547	6,113,557,107	1,354,536,150	115,590,107	0	1,470,126,257	4,643,430,851
C.	Sub Transmission	0	0	0	0	0	0	0	0
1	132 KV Sub Transmission Lines	13,042,484,760	1,568,285,801	14,610,770,561	4,239,090,248	480,429,400	0	4,719,519,649	9,891,250,913
2	66 KV Sub Transmission Lines	345,522,267	41,547,119	387,069,386	112,302,226	12,727,564	0	125,029,790	262,039,596
3	33 KV Sub Transmission Lines	0	0	0	0	0	0	0	0
	Total	13,388,007,027	1,609,832,920	14,997,839,947	4,351,392,474	493,156,964	0	4,844,549,439	10,153,290,509
D.	Grid Station	0	0	0	0	0	0	0	0
1	132 KV Grid Station	25,856,418,054	3,109,089,568	28,965,507,622	8,403,896,316	952,439,942	0	9,356,336,258	19,609,171,364
2	66 KV Grid Station	2,045,200,015	245,923,856	2,291,123,873	664,734,336	75,336,428	0	740,070,764	1,551,053,108
3	33 KV Grid Station	0	0	0	0	0	0	0	0
	Total	27,901,618,070	3,355,013,424	31,256,631,494	9,068,630,652	1,027,776,370	0	10,096,407,022	21,160,224,472
E.	11 KV Distribution Equipments	0	0	0	0	0	0	0	0
1	11 KV Poles	12,716,510,854	1,529,089,264	14,245,600,118	4,133,141,663	468,421,915	0	4,601,563,578	9,644,036,540
2	11KV Line	27,625,692,551	3,321,834,925	30,947,527,476	8,978,948,878	1,017,612,453	0	9,996,561,331	20,950,966,145
3	Distribution Transformer	41,061,696,832	4,937,439,246	45,999,136,078	13,345,941,500	1,512,537,431	0	14,858,478,931	31,140,657,147
	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	0	0	0	0	0	0	0
1	LV Poles	10,327,425,166	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	0	0	0	0	0	0	0	0
3	220 LV Distribution Line	15,177,558,727	1,825,016,497	17,002,575,224	4,933,035,566	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
	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
G.	Vehicles	0	0	0	0	0	0	0	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
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	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
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								
	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

DF - FORM 13

Asset register as the year ended at date June 30, 2024 (Projected)

No.	Description	Cost			Accumulated Depreciation				Book Value as on June 30, 2024
		As at July 01, 2023	Addition/ deletions	As at June 30, 2024	As at July 01, 2023	Charge during the year	Adjustments	As at June 30, 2024	
A.	Land								
1	Freehold	527,770,971	49,546,270	577,317,241	0	0	0	0	577,317,241
2	Leasehold	3,036,234	285,036.68	3,321,271	790,164	0	0	790,164	2,531,107
	Total	530,807,205	49,831,307	580,638,512	790,164	0	0	790,164	579,848,348
B.	Buildings	0	0	0	0	0	0	0	0
1	Residential 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
	Total	6,113,557,107	573,930,679	6,687,487,786	1,470,126,257	126,441,516	0	1,596,567,773	5,090,920,013
C.	Sub Transmission	0	0	0	0	0	0	0	0
1	132 KV Sub Transmission Lines	14,610,770,561	1,610,227,480	16,220,998,041	4,719,519,649	533,376,685	0	5,252,896,334	10,968,101,707
2	66 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
	Total	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
	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	0
1	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
3	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
H.	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								
	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

DF - FORM 13

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

No.	Description	Cost			Accumulated Depreciation				Book Value as on June 30, 2025
		As at July 01, 2024	Addition/ deletions	As at June 30, 2025	As at July 01, 2024	Charge during the year	Adjustments	As at June 30, 2025	
A.	Land								
1	Freehold	577,317,241	50,207,289	627,524,530	0	0	0	0	627,524,530
2	Leasehold	3,321,271	288,839.48	3,610,110	790,164	0	0	790,164	2,819,946
	Total	580,638,512	50,496,129	631,134,641	790,164	0	0	790,164	630,344,477
B.	Buildings	0	0	0	0	0	0	0	0
1	Residential 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
2	Non-Residential 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
3	GSO 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
4	Non-GSO Residential Buildings	78,003,252	6,783,674	84,786,926	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
C.	Sub Transmission	0	0	0	0	0	0	0	0
1	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
2	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
3	33 KV Sub Transmission Lines	0	0	0	0	0	0	0	0
	Total	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
D.	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
2	66 KV Grid Station	2,543,624,629	257,389,404	2,801,014,033	823,709,886	92,102,568	0	915,812,457	1,885,201,576
3	33 KV Grid Station	0	0	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	16,537,710,468	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	0	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	0	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	0	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	0	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
H.	Detail of General Plant Assets	0	0	0	0	0	0	0	0
1	Computer Equipment	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	0	0	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

DF - FORM 14

MEPCO

Power Distribution Business

This Format related to Power Suppply Business

Aging of Accounts Receivables as on 30th June		ACTUAL FY ending June 30, 2019	ACTUAL FY ending June 30, 2020	PROJECTED FY ending June 30, 2021	PROJECTED FY ending June 30, 2022	PROJECTED FY ending June 30, 2023	PROJECTED FY ending June 30, 2024	PROJECTED 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 on June 30,		61,605	79,595					

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.

DF - FROM 15
MEPCO
Projected Energy Sales by Tariffs FY 2020-21

Power Distribution Business
This Format Relates to Power Supply Business

CATEGORY		Voltage Level	Energy Purchased	Energy Sales	Distribution Losses	Sales Growth rate	Projection 1	Sales Growth rate	Projection 2
A1 Domestic									
Flat Rate Fata		LV					-		
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		2.00	2,691.56		
201-300	13.32	LV		2,230.29		2.10	2,230.29		
301 - 700	14.88	LV		2,490.53		3.00	2,490.53		
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		
B1 (TOD)	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 (TOD)	6.97	LV		1,167.20		2.00	1,167.20		
B-3 11/33 KV	0.00	HV		-		2.20	-		
B-3 11/33 KV (TOD)	4.73	HV		792.50		2.50	792.50		
B-4 66/132/220 KV	0.00	STG		-		2.50	-		
B-4 66/132/220 KV (TOD)	1.42	STG		238.24		0.01	238.24		
Summary	15.33			2,566.32		2.27	2,566.32		
Bulk Supply							-		
C-1(a) upto 20 kW	0.00	LV		0.01		1.90	0.01		
C-1(b) above 20 kW	0.00	LV		0.46		1.90	0.46		
C1 (TOD)	0.26	LV		43.81		1.95	43.81		
C-2 11/33 KV	0.01	HV		0.92		2.00	0.92		
C2 (TOD)	1.20	STG		200.06		2.40	200.06		
C-3 (66/132/220 KV)	0.01	STG		1.62		2.00	1.62		
C3 (TOD)	0.21	STG		35.33		2.00	35.33		
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	1.69			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		-		-	-		
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 Agri. (49 , 52)	0.00	LV		0.60		2.00	0.60		
D-1 b Agri.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		
Others							-		
GENERAL SERVICE (66)	1.64	LV		275.21		2.25	275.21		
G P LIGHTING	0.11	LV		18.50		2.57	18.50		
H RESIDENTIAL CLY.	0.04	HV		6.76		2.57	6.76		
I RAILWAY TR	0.00	HV		-			-		
J CO-GEN	0.00	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		

DF - FROM 15
MEPCO
Projected Energy Sales by Tariffs FY 2021-22

CATEGORY		Voltage Level	Energy Purchased	Energy Sales	Distribution Losses	Sales Growth rate %	Projection 1	Sales Growth rate	Projection 2
A1 Domestic									
Flat Rate Fata		LV					-		-
Upto - 50	0.36	LV		64.35		3.01	64.35		
1 -100	9.35	LV		1,649.53		5.00	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	2,627.51		
above 700	3.09	LV		544.45		5.00	544.45		
Temporary Domestic	0.00	LV		0.52		-	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	HV		840.05		6.00	840.05		
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	STG		210.06		5.00	210.06		
C-3 (66/132/220 KV)	0.01	STG		1.70		4.94	1.70		
C3 (TOD)	0.21	STG		37.10		5.01	37.10		
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	1.68			296.33		5.00	296.33		
Tubewells							-		
D-1 SCARP (46)	0.00	LV		0.07		-	0.07		
D-1 a Agri. (41, 42)	0.00	LV		0.01		-	0.01		
D-1 a Agri TOD (43, 44)	0.00	LV		-			-		
D-1 b Agri. TOD (45)	0.29	LV		51.50		4.99	51.50		
D-2 Agri. TOD(47,46)	0.00	LV		0.07		-	0.07		
D-2 Agri. (49 , 52)	0.00	LV		0.63		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		

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

CATEGORY		Voltage Level	Energy Purchased	Energy Sales	Distribution Losses	Sales Growth rate	Projection 1	Sales Growth rate	Projection 2
A1 Domestic									
Flat Rate Fata		LV					-		-
Upto - 50	0.36	LV		65.64		2.00	65.64		
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		
301 - 700	14.94	LV		2,693.20		2.50	2,693.20		
above 700	3.08	LV		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		
Summary	57.87			10,432.64		2 31	10,432.64		
A2 Commercial							-		
A2 - A	2.90	LV		523.27		2.00	523.27		
> 5 kW	0.00	LV		0.19		-	0.19		
A2(2) TOD	2.55	LV		459.02		2.00	459.02		
Temporary Commercial	0.04	LV		6.89		2.12	6.89		
Summary	5.49			989.38		2.00	989.38		
Industry							-		
B-1 400 V Upto 40 kW	0.20	LV		36.21		2.00	36.21		
B1 (TOD)	2.01	LV		362.03		2.00	362.03		
B-2 400 V Upto (41-500 kW)	0.00	LV		0.04		-	0.04		
B-2 400 V (TOD)	7.00	LV		1,261.98		2.00	1,261.98		
B-3 11/33 KV	0.00	HV		-			-		
B-3 11/33 KV (TOD)	4.75	HV		856.85		2.00	856.85		
B-4 66/132/220 KV	0.00	STG		-			-		
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	HV		-			-		
K(B) - KESC (Billing)	0.00	STG		-			-		
K(C) Rawat Lab	0.00	HV		-			-		
Summary	1.68			302.26		2.00	302.26		
Tubewells							-		
D-1 SCARP (46)	0.00	LV		-		(100.00)	-		
D-1 a Agri. (41, 42)	0.00	LV		-		(100 00)	-		
D-1 a Agri TOD (43, 44)	0.00	LV		-			-		
D-1 b Agri. TOD (45)	0.29	LV		52.53		2.00	52.53		
D-2 Agri. TOD(47,48)	0.00	LV		0.08		14.29	0.08		
D-2 Agri. (49 , 52)	0.00	LV		0.65		2.54	0.65		
D-1 b Agri.TOD (50, 51)	17.42			3,140.91		2.00	3,140.91		
D-1 b Agri. TOD (53, 54)	0.00			0.44		3.57	0.44		
Summary	17.72			3,194.60		2.00	3,194.60		
Others							-		
GENERAL SERVICE (66)	1.71	LV		308.20		2.00	308.20		
G P LIGHTING	0.11	LV		19.63		2.03	19.63		
H RESIDENTIAL CLY.	0.04	HV		7.09		0.45	7.09		
I RAILWAY TR	0.00	HV		-			-		
J CO-GEN	0.00	HV		-			-		
	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		

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

CATEGORY		Voltage Level	Energy Purchased	Energy Sales	Distribution Losses	Sales Growth rate	Projection 1	Sales Growth rate	Projection 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	LV		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	HV		-			-		
B-3 11/33 KV (TOD)	4.75	HV		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		1.44	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							-		
D-1 SCARP (46)	0.00	LV		-		#DIV/0!	-		
D-1 a Agri. (41, 42)	0.00	LV		-		#DIV/0!	-		
D-1 a Agri TOD (43, 44)	0.00	LV		-			-		
D-1 b Agri. TOD (45)	0.29	LV		53.84		2.49	53.84		
D-2 Agri. TOD(47,48)	0.00	LV		0.08		-	0.08		
D-2 Agri. (49 , 52)	0.00	LV		0.66		2.17	0.66		
D-1 b Agri.TOD (50, 51)	17.40			3,203.73		2.00	3,203.73		
D-1 b Agri. TOD (53, 54)	0.00			0.45		3.45	0.45		
Summary	17.70			3,258.76		2.01	3,258.76		
Others							-		
GENERAL SERVICE (66)	1.71	LV		314.36		2.00	314.36		
G P LIGHTING	0.11	LV		20.12		2.50	20.12		
H RESIDENTIAL CLY.	0.04	HV		7.37		4.05	7.37		
I RAILWAY TR	0.00	HV		-			-		
J CO-GEN	0.00	HV		-			-		
	0.00						-		
Summary	1.86			341.85		2.07	341.85		
Total	100.0		21,532.86	18,410.62	3,122	2.12	18,410.62		

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

CATEGORY		Voltage Level	Energy Purchased	Energy Sales	Distribution Losses	Sales Growth rate	Projection 1	Sales Growth rate	Projection 2
A1 Domestic									
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		-			-		
B-3 11/33 KV (TOD)	4.74	HV		891.47		2.00	891.47		
B-4 66/132/220 KV	0.00	STG		-			-		
B-4 66/132/220 KV (TOD)	1.43	STG		267.99		2.00	267.99		
Summary	15.39			2,893.23		2.00	2,893.23		
Bulk Supply							-		
C-1(a) upto 20 kW	0.00	LV		0.01		-	0.01		
C-1(b) above 20 kW	0.00	LV		0.52		1.96	0.52		
C1 (TOD)	0.26	LV		48.82		2.01	48.82		
C-2 11/33 KV	0.01	HV		1.03		1.98	1.03		
C2 (TOD)	1.19	STG		222.92		2.00	222.92		
C-3 (66/132/220 KV)	0.01	STG		1.81		2.55	1.81		
C3 (TOD)	0.21	STG		39.37		1.99	39.37		
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			314.48		2.00	314.48		
Tubewells							-		
D-1 SCARP (46)	0.00	LV		-		#DIV/0!	-		
D-1 a Agri. (41, 42)	0.00	LV		-		#DIV/0!	-		
D-1 a Agri TOD (43, 44)	0.00	LV		-			-		
D-1 b Agri. TOD (45)	0.29	LV		54.92		2.01	54.92		
D-2 Agri. TOD(47,48)	0.00	LV		0.08		-	0.08		
D-2 Agri. (49 , 52)	0.00	LV		0.68		3.03	0.68		
D-1 b Agri.TOD (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	17.68			3,323.94		2.00	3,323.94		
Others							-		
GENERAL SERVICE (66)	1.71	LV		320.67		2.01	320.67		
G P LIGHTING	0.11	LV		20.52		1.99	20.52		
H RESIDENTIAL CLY.	0.04	HV		7.47		1.30	7.47		
I RAILWAY TR	0.00	HV		-			-		
J CO-GEN	0.00	HV		-			-		
	0.00						-		
Summary	1.85			348.66		1.99	348.66		
Total	100.0		21,963.55	18,800.78	3,163	2.12	18,800.78		

DF - FORM 16

MEPCO

Power Distribution Business

Operating Cost

		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 Cost										
Energy Charge	[Mln Rs]	113,849	106,089	113,849	97,325	-	-	-	-	-
Capacity Charge	[Mln Rs]	132,654	112,653	132,654	144,145	-	-	-	-	-
Transmission Charge	[Mln Rs]	7,169	6,984	7,171	7,242	-	-	-	-	-
Market Operator Fee	[Mln Rs]	69	69	67	67	-	-	-	-	-
Total Power Purchase Cost	[Mln Rs]	253,741	225,795	253,741	248,780	-	-	-	-	-

* Provide the detail of adjustment

		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
B Operation & Maintenance *										
Employees Cost **										
Salaries, Wages & Benefits	[Mln Rs]	8,763	9,616	9,791	9,546	8,823	11,278	13,236	15,253	17,525
Retirement Benefits	[Mln Rs]	4,232	8,679	4,655	12,233	7,252	7,977	8,775	9,652	10,618
Total Employees Cost	**[Mln Rs]**	**12,995**	**18,295**	**14,446**	**21,779**	**16,075**	**19,256**	**22,011**	**24,906**	**28,143**
Admin Expenses	[Mln Rs]			-	-	-	-	-	-	-
Repair & Maintenance	[Mln Rs]	1,269	1,726	1,384	1,729	2,551	2,859	3,201	3,552	3,910
ERP	[Mln Rs]			-	-	-	-	-	-	-
Travelling	[Mln Rs]	963	986	1,051	952	839	972	1,093	1,211	1,344
Transportation	[Mln Rs]	356	364	408	399	507	594	697	826	1,001
Management Fee	[Mln Rs]		121	-	163	149	160	170	181	193
Misc./Other Expenses	[Mln Rs]	1,234	1,323	1,348	1,170	1,197	1,341	1,479	1,638	1,809
Supplemental Charges	[Mln Rs]		2,171		1,848	-	-	-	-	-
PM assistance Package for families of Gc	[Mln Rs]					605	586	569	552	535
Bad Debts	[Mln Rs]		6,955		584	-	-	-	-	-
Total O&M	[Mln 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	[Mln Rs]		4,699		5,128	5,695	6,388	7,155	7,945	8,749
Amortization of Leased Assets	[Mln Rs]									
Total	**[Mln Rs]**		**4,699**	**-**	**5,128**	**5,695**	**6,388**	**7,155**	**7,945**	**8,749**

DF - FORM 17

MEPCO

Power Distribution Business

Distribution Margin Comparison

		Determined 2018-19	Actual 2018-19	Determined 2019-20	Actual 2019-20	Projected 2020-21	Projected 2021-22	Projected 2022-23	Projected 2023-24	Projected 2024-25
O&M Expenses	Rs. In Million	16,818	22,815	18,637	26,191	21,922	25,767	29,220	32,865	36,935
Increase 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
Bad Debts	Rs. In Million	-	6,955	-	584	-	-	-	-	-
Interest on short term Loan (working Capital)	Rs. In Million	-	-	-	-	-	-	-	-	-
Income Tax	Rs. In Million	-	-	-	-	-	-	-	-	-
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	18,411	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%

DF - FORM 18
MEPCO
Financial Charges

Power Distribution Business

		FY 2018-19 Actual	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	**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	968.85	775.72	621.09	497.28	398.15	318.78	255.23
	TFCs							
	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**
B	**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**
C	**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
RORB Calculation

Power Distribution Business

			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	Gross Fixed Assets in Operation - Opening Bal	[Mln Rs]	130,473	130,473	144,295	144,295	154,065	173,518	194,506	217,799	241,737
B	Addition in Fixed Assets	[Mln Rs]	13,822	13,822	13,868	9,770	19,453	20,988	23,293	23,938	24,402
C	Gross Fixed Assets in Operation - Closing Bal	[Mln Rs]	144,295	144,295	158,163	154,065	173,518	194,506	217,799	241,737	266,139
D	*Less*: Accumulated Depreciation	[Mln Rs]	46,305	46,305	51,459	51,433	57,128	63,516	70,672	78,616	87,365
E	Net Fixed Assets in Operation	[Mln 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	[Mln Rs]	10,899	10,899	11,032	15,040	13,694	16,383	18,460	18,783	19,117
G	Investment in Fixed Assets	[Mln Rs]	108,889	108,890	117,736	117,672	130,084	147,373	165,587	181,905	197,891
H	*Less*: Deferred Credits	[Mln Rs]	68,595	57,195	69,990	59,724	65,245	70,500	76,125	81,448	86,675
I	Regulatory Assets Base	[Mln Rs]	40,294	51,695	47,746	57,948	64,839	76,873	89,463	100,457	111,217
J	Average Regulatory Assets Base (RAB)	[Mln Rs]	37,656	49,751	44,020	54,821	61,393	70,856	83,168	94,960	105,837
	Rate of Return	[%age]	10.95	10.95	15.02	15.02	11.72	11.72	11.72	11.72	11.72
	Return on Rate Base	[Mln Rs]	4,122	5,446	6,610	8,232	7,196	8,305	9,748	11,130	12,404

DF - FORM 20
MEPCO
Revenue Requirement

			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**	[Mln Rs]	253,741	225,795	253,741	248,780	-	-	-	-	-
B	**DM**										
	O&M	[Mln Rs]	16,818	22,815	18,637	26,191	21,922	25,767	29,220	32,865	36,935
	Depreciation	[Mln Rs]	4,699	4,710	5,154	5,131	5,695	6,388	7,155	7,945	8,749
	RORB	[Mln Rs]	4,122	5,446	6,610	8,232	7,196	8,305	9,748	11,130	12,404
	Other Income	[Mln Rs]	(4,400)	(4,400)	(4,234)	(5,246)	(5,248)	(5,438)	(5,877)	(6,310)	(6,743)
	Impact of Disallowed Losses	[Mln Rs]									
	Late Payment Surcharge	[Mln Rs]		(2,171)		(1,848)	-	-	-	-	-
	Supplemental Charges	[Mln Rs]		2,171		1,848	-	-	-	-	-
	Bad Debts	[Mln Rs]					-	-	-	-	-
	Working Capital	[Mln Rs]					-	-	-	-	-
	Total DM	[Mln Rs]	21,239	28,572	26,167	34,308	29,564	35,021	40,246	45,629	51,345
	Sales Mix	[Mln Rs]									
	Prior Period Adjustment	[Mln Rs]	(2,767)	-	1,248	-	58,338	-	-	-	-
	Total - B	[Mln Rs]	18,472	28,572	27,415	34,308	87,903	35,021	40,246	45,629	51,345
C	**Revenue Requirement (A+B)**	[Mln Rs]	272,213	254,366	281,156	283,088	87,903	35,021	40,246	45,629	51,345
D	Less/ (Excess) Recovery	[Mln Rs]	-	-	-	-	-	-	-	-	-
	Bad Debts Written Off	[Mln Rs]	-	6,955	-	584	-	-	-	-	-
	Total - D	[Mln Rs]	-	6,955	-	584	-	-	-	-	-
E	**Total Revenue Requirement (C+D)**	[Mln 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	-	-	-	-	-
B	**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	0.31	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
C	**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)**	[Rs./ KWh]	16.52	16.02	16.88	17.32	5.25	1.98	2.23	2.48	2.73

DF - FORM 21(A)

MEPCO

Power Distribution Business

Investment

		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
A	**Investment Plan**									
	DOP	[Mln Rs]	853	-	1,378	910	2,404	2,564	2,029	2,190
	ELR	[Mln Rs]	1,871	-	2,192	2,130	3,647	3,853	4,684	4,938
	STG (energy efficiency, capaicitors)	[Mln Rs]	3,403	-	2,291	3,600	4,372	4,106	4,453	4,529
	Village Electricification/Deposit Work	[Mln Rs]	2,517	-	2,403	3,228	3,452	3,769	2,760	2,828
	Capital Receipts	[Mln Rs]	4,172	-	4,994	6,000	5,598	5,979	6,338	6,718
	Vehicles (Utility & Others)	[Mln Rs]	3	-	38	480	702	844	413	441
	ERP	[Mln Rs]	11	-	21	80	35	10	45	50
	AMR Meters	[Mln Rs]	-	-	-	500	628	699	540	-
	Others	[Mln Rs]	608	-	535	1,211	2,841	3,538	2,978	3,006
	Hospital Equipments	[Mln Rs]	-	-	36	-	35	50	65	80
			-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-
						-	-	-	-	-
	Total	[Mln Rs]	13,439	13,439	14,000	13,887	18,140	23,714	25,412	24,305	24,780
B	**Financing Arrangement**									
	Local Loan	[Mln Rs]	-			-	-	3,478	2,599	-	-
	Foreign Relent Loan	[Mln Rs]	607			-	-	-	-	-	-
	PSDP / Own Resources	[Mln Rs]	6,143			6,490	8,912	11,186	13,065	15,207	15,234
	Grants	[Mln Rs]	-			-	-	-	-	-	-
	Consumer Contribution	[Mln Rs]	4,172			4,994	6,000	5,598	5,979	6,338	6,718
	Loan Basis (AMI/ AMR Meters)	[Mln Rs]	-			-	-	-	-	-	-
	Lease Basis (Vehicles)	[Mln Rs]	-			-	-	-	-	-	-
	Deposit Works/ Others	[Mln Rs]	2,517			2,403	3,228	3,452	3,769	2,760	2,828
	Total	[Mln 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

MEPCO

Interest on Development Loans

1

Rs. Million

Sr. No.	Loans	Interest Rate %	FY 2019-20 (Actual)				
			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-I)	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
			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

DF - FORM 22

MEPCO

Interest on Development Loans

2

Rs. Million

Sr. No.	Loans	Interest Rate %	FY 2020-21 (Projected)				
			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
			208.867	208.867	198.325	198.325	814.38

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

DF - FORM 22

MEPCO

Interest on Development Loans

3

Rs. Million

Sr. No.	Loans	Interest Rate %	FY 2021-22 (Projected)				
			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-I)	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

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

DF - FORM 22

MEPCO

Interest on Development Loans

4

Rs. Million

Sr. No.	Loans	Interest Rate %	FY 2022-23 (Projected)				
			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-I)	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
			165.607	165.607	155.066	155.066	641.35

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

DF - FORM 22

MEPCO

Interest on Development Loans

Rs. Million

Sr. No.	Loans	Interest Rate %	FY 2023-24 (Projected)				
			1st Qrt	2nd Qrt	3rd Qrt	4rth Qrt	Total
1	World Bank	17	8.816	8.816	4.408	4.408	26.449
2	ADB (Tr-I)	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**

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

DF - FORM 22

MEPCO

Interest on Development Loans

Rs. Million

Sr. No.	Loans	Interest Rate %	FY 2024-25 (Projected)				
			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
			123.811	123.811	119.441	119.441	486.50

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

DF - FORM 23

MEPCO

Development Loan

Rs. In Million

Sr. No.	Loan	Interest Rate %	Remaining Years	First Qrt of FY 2019-20				Second Qrt of FY 2019-20				Third Qrt of FY 2019-20				Fourth Qrt of FY 2019-20			
				O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal
1	World B	17%	4	3849.04	0.00	160.30	3688.74	3688.74	0.00	0.00	3688.74	3688.74	0.00	160.30	3528.44	3528.44	0.00	0.00	3528.44
2	ADB-Lo	17%	5	1354.87	0.00	64.15	1290.71	1290.71	0.00	0.00	1290.71	1290.71	0.00	64.15	1226.56	1226.56	0.00	0.00	1226.56
3	ADB-Lo	15%	12	2168.84	0.00	0.00	2168.84	2168.84	0.00	65.69	2103.15	2103.15	0.00	0.00	2103.15	2103.15	0.00	65.69	2037.46
4	ADB-Lo	15%	19	3118.56	0.00	0.00	3118.56	3118.56	0.00	78.13	3040.43	3040.43	0.00	0.00	3040.43	3040.43	0.00	78.13	2962.29
5	ADB-Lo	15%	20	2772.76	0.00	0.00	2772.76	2772.76	0.00	69.32	2703.45	2703.45	0.00	0.00	2703.45	2703.45	0.00	69.32	2634.13
6	CDL	17%	16	797.05	0.00	0.00	797.05	797.05	0.00	0.00	797.05	797.05	0.00	0.00	797.05	797.05	0.00	14.04	783.01
				14,061.124	-	224.450	13,836.674	13,836.674	-	213.144	13,623.530	13,623.530	-	224.450	13,399.080	13,399.080	-	227.179	13,171.901

DF - FORM 23

MEPCO

Development Loan

Rs. In Million

Sr. No.	Loan	Code	Currency	Interest Rate %	Remaining Years	First Qrt of FY 2020-21				Second Qrt of FY 2020-21				Third Qrt of FY 2020-21				Fourth Qrt of FY 2020-21			
						O/Bal	sburseme	Repayment	C/Bal	O/Bal	sburseme	Repayment	C/Bal	O/Bal	sburseme	Repayment	C/Bal	O/Bal	sburseme	Repayment	C/Bal
1	World Bank			17%	3	3528.44	0.00	160.30	3368.14	3368.14	0.00	0.00	3368.14	3368.14	0.00	160.30	3207.85	3207.85	0.00	0.00	3207.85
2	ADB-Loan# 2438 (Tranche-I)			17%	4	1226.56	0.00	64.15	1162.41	1162.41	0.00	0.00	1162.41	1162.41	0.00	64.15	1098.26	1098.26	0.00	0.00	1098.26
3	ADB-Loan# 2727 (Tranche-II)			15%	11	2037.46	0.00	0.00	2037.46	2037.46	0.00	65.69	1971.77	1971.77	0.00	0.00	1971.77	1971.77	0.00	65.69	1906.08
4	ADB-Loan# 2972 (Tranche-III)			15%	18	2962.29	0.00	0.00	2962.29	2962.29	0.00	78.13	2884.16	2884.16	0.00	0.00	2884.16	2884.16	0.00	78.13	2806.02
5	ADB-Loan# 3096 (Tranche-IV)			15%	19	2634.13	0.00	0.00	2634.13	2634.13	0.00	69.32	2564.81	2564.81	0.00	0.00	2564.81	2564.81	0.00	69.32	2495.49
6	CDL			17%	17	783.01	0.00	0.00	783.01	783.01	0.00	0.00	783.01	783.01	0.00	0.00	783.01	783.01	0.00	15.86	767.16
						13,171.901	-	224.450	12,947.451	12,947.451	-	213.144	12,734.308	12,734.308	-	224.450	12,509.857	12,509.857	-	228.995	12,280.863

MEPCO
Development Loan

Devaluation in Pak Rupee per Annum

Rs. In Million

Sr. No.	Loan	Interest Rate %	Remaining Years	First Qrt of FY 2021-22				Second Qrt of FY 2021-22				Third Qrt of FY 2021-22				Fourth Qrt of FY 2021-22			
				O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal
1	World B	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	2887.25
2	ADB-Lo	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	969.95
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	1774.70
4	ADB-Lo	15%	17	2806.02	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	2649.75
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	2356.85
6	CDL	17%	16	767.16	0.00	0.00	767.16	767.16	0.00	0.00	767.16	767.16	0.00	0.00	767.16	767.16	0.00	17.90	749.26
				12,280.863	-	224.450	12,056.413	12,056.413	-	213.144	11,843.269	11,843.269	-	224.450	11,618.819	11,618.819	-	231.046	11,387.774

DF - FORM 23

MEPCO

Development Loan

Rs. In Million

Devaluation in Pak Rupee per Annum 10%

Sr. No	Loan	Code	Currenc	Interest Rate %	Remaining Years	First Qrt of FY 2022-23				Second Qrt of FY 2022-23				Third Qrt of FY 2022-23				Fourth Qrt of FY 2022-23			
						O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal
1	World Bank			17%	1	2887.25	0.00	160.30	2726.95	2726.95	0.00	0.00	2726.95	2726.95	0.00	160.30	2566.66	2566.66	0.00	0.00	2566.66
2	ADB-Loan# 2438 (Tranche-I)			17%	2	969.95	0.00	64.15	905.80	905.80	0.00	0.00	905.80	905.80	0.00	64.15	841.65	841.65	0.00	0.00	841.65
3	ADB-Loan# 2727 (Tranche-II)			15%	9	1774.70	0.00	0.00	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
4	ADB-Loan# 2972 (Tranche-III)			15%	16	2649.75	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
5	ADB-Loan# 3096 (Tranche-IV)			15%	17	2356.85	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	CDL			17%	15	749.26	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
						11,387.774	-	224.450	11,163.324	11,163.324	-	213.144	10,950.180	10,950.180	-	224.450	10,725.730	10,725.730	-	233.364	10,492.366

DF - FORM 23

MEPCO
Development Loan

Devaluation in Pak Rupee per Annum

Rs. In Million

Sr. No.	Loan	Interest Rate %	Remaining Years	First Qrt of FY 2023-24				Second Qrt of FY 2023-24				Third Qrt of FY 2023-24				Fourth Qrt of FY 2023-24			
				O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal	C/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	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
2	ADB-Lo	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
3	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
4	ADB-Lo	15%	15	2493.49	0.00		2493.49	2493.49	0.00	78.13	2415.35	2415.35	0.00		2415.35	2415.35	0.00	78.13	2337.22
5	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	CDL	17%	14	729.04	0.00		729.04	729.04	0.00		729.04	729.04	0.00		729.04	729.04	0.00	22.84	706.20
				10,492.366	-	224.450	10,267.916	10,267.916	-	213.144	10,054.773	10,054.773	-	224.450	9,830.323	9,830.323	-	235.982	9,594.341

DF - FORM 23

MEPCO

Development Loan

Devaluation in Pak Rupee per Annum 10%

Rs. In Million

Sr. No	Loan	Code	Currency	Interest Rate %	Remaining Years	First Qrt of FY 2024-25				Second Qrt of FY 2024-25				Third Qrt of FY 2024-25				Fourth Qrt of FY 2024-25			
						O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal	O/Bal	Disbursement	Repayment	C/Bal
1	World Bank			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-Loan# 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-Loan# 2727 (Tranche-II)			15%	7	1511.95	0.00		1511.95	1511.95	0.00	65.69	1446.26	1446.26	0.00		1446.26	1446.26	0.00	65.69	1380.57
4	ADB-Loan# 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-Loan# 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
6	CDL			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
						9,594.341	-	224.450	9,369.891	9,369.891	-	213.144	9,156.748	9,156.748	-	224.450	8,932.297	8,932.297	-	238.939	8,693.359

DF-FORM 24

Slab Wise Domestic Consumers Analysis (2020-21)

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														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											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
0 - 50	1,206,988	64,348,493														64,348,493	1,055	16.40
1 - 100	854,488		1,649,532,246													1,649,532,246	15,907	9.64
101 - 200	1,985,705			2,831,526,149												2,831,526,149	29,529	10.43
201 -300	1,544,672				2,352,960,002											2,352,960,002	29,717	12.63
301 - 400	687,231					1,326,716,349										1,326,716,349	23,279	17.55
401-500	276,394						680,815,954									680,815,954	13,075	19.20
501-600	126,033							381,532,612								381,532,612	7,719	20.23
601-700	66,306								238,446,092							238,446,092	4,984	20.90
701-800	36,089									149,258,379						149,258,379	3,728	24.98
801-900	21,578										100,964,064					100,964,064	2,550	25.26
901-1000	12,905											69,330,106				69,330,106	1,764	25.44
1001-1100	8,446												48,336,457			48,336,457	1,237	25.60
Above 1100	19,738													176,559,842		176,559,842	4,534	25.68
A1-B & Temporary	18,069														126,558,959	126,558,959	2,834	22.40
Total	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	10,198,885,704	141,912	13.92

Slab Wise Domestic Consumers Analysis (2022-23)

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	1,288,957	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									152,243,547						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				70,716,708	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	102,983,345	70,716,708	49,303,186	180,091,039	130,340,127	10,432,636,813	135,231	13.92

Slab Wise Domestic Consumers Analysis (2023-24)

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											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
501-600	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											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													183,692,860		183,692,860	4,717	25.68
A1-B & Temporary	20,455														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											2,514,140,115	31,753	12.63
301 - 400	824,680					1,425,940,636										1,425,940,636	25,020	17.55
401-500	331,674						731,733,754									731,733,754	14,053	19.20
501-600	151,240							410,067,197								410,067,197	8,297	20.23
601-700	79,568								256,279,326							256,279,326	5,357	20.90
701-800	43,307									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	3,082	22.40
Total	8,237,486	68,287,136	1,753,929,162	3,013,681,737	2,514,140,115	1,425,940,636	731,733,754	410,067,197	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

Power Distribution Business

DF - FORM 25

MEPCO

Provision for Tax

Rs. In Million

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

MEPCO

Provision for Tax

F.Y. 2020-21

Sr. No.	Provision for Tax allowed	Projected tax paid during the FY 2020-21				
		1st Qrt	2nd Qrt	3rd Qrt	4th Qrt	Total
						-
			-	-		-

DF - FORM 25

MEPCO

Provision for Tax

Rs. In Million

Sr. No.	n for Tax	Projected tax paid during the FY 2021-22				
		1st Qrt	2nd Qrt	3rd Qrt	4th Qrt	Total

DF - FORM 25

MEPCO

Provision for Tax

Rs. In Million

Sr. No.	n for Tax	Projected tax paid during the FY 2022-23				
		1st Qrt	2nd Qrt	3rd Qrt	4th Qrt	Total

DF - FORM 25

MEPCO

Provision for Tax

Rs. In Million

Sr. No.	on for Tax	Projected tax paid during the FY 2023-24				
		1st Qrt	2nd Qrt	3rd Qrt	4th Qrt	Total

DF - FORM 25

MEPCO

Provision for Tax

Rs. In Million

Sr. No.	n for Tax	Projected tax paid during the FY 2024-25				
		1st Qrt	2nd Qrt	3rd Qrt	4th Qrt	Total

FORM - 26

Power Distribution Business

MEPCO

This Format Relates to Power Supply Business

Existing & Proposed Tariff Statement

F.Y. 2020-21

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Distribution losses	NEPRA Existing Tariff		Proposed New Tariff		Difference	
							Fixed Charge	Variable Charge	Fixed Charge	Variable Charge	Fixed Charge	Variable Charge
	(MkWh)			(kW)			(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)
Residential												
Up to 50 Units	62.47	0.37%	531,314				-	249.88	-	313.29	-	63.41
For peak load requirement up to 5 kW							-	-	-	-	-	-
01-100 Units	1,570.98	9.38%	3,672,561				-	24,868.61	-	31,181.60	-	6,312.98
101-200 Units	2,691.56	16.08%	1,779,872				-	44,033.92	-	55,211.97	-	11,178.05
201-300 Units	2,230.29	13.32%	358,572				-	38,873.95	-	48,742.99	-	9,869.03
301-700Units	2,490.53	14.88%	100,981				-	49,611.36	-	62,205.97	-	12,594.61
Above 700 Units	518.52	3.10%	4,811				-	10,837.07	-	13,586.34	-	2,751.27
For peak load requirement exceeding 5 kW		0.00%					-	-	-	-	-	-
Time of Use (TOU) - Peak	24.01	0.14%	-				-	500.57	-	627.64	-	127.07
Time of Use (TOU) - Off-Peak	96.03	0.57%	17,204				-	1,455.85	-	1,825.47	-	369.63
Temporary	0.52	0.00%	1,042				-	10.54	-	13.22	-	2.68
Total Residential	9,684.91	57.85%	6,466,363	-			-	170,442	-	213,710	-	43,269
Commercial - A2							-	-	-	-	-	-
Commercial - A-2A For peak load requirement up to 5 kW	478.30	2.86%	586,556				-	9,274.24	-	11,628.43	-	2,354.19
Commercial (<100)		0.00%					-	-	-	-	-	-
Commercial (<20 KW) For peak load requirement exceeding 5 kW	-	0.00%					-	-	-	-	-	-
Regular A-2B	0.18	0.00%	27	1620			1	3.16	1	3.96	-	0.80
A-2C (TOU) - Peak (A-2)	97.80	0.58%	-				-	1,993.16	-	2,499.18	-	506.02
A-2C (TOU) - Off-Peak	320.75	1.92%	21,191	2048251			901	4,634.84	901	5,811.35	-	1,176.51
Temporary Commercial E-111 (56)	6.22	0.04%	1,950				-	125.83	-	157.78	-	31.95
Total Commercial	903.25	5.40%	609,724	2,049,871			902	16,031	902	20,101	-	4,069
Industrial			-				-	-	-	-	-	-
B1 (400 Volts Upto 40kw) (07)	33.49	0.20%	15,159				-	643.01	-	806.24	-	163.23
B1 (400 Volts Upto 40kw) (08)		0.00%	18				-	-	-	-	-	-
B1 (b) (Peak)	68.22	0.41%	-				-	1,384.87	-	1,736.40	-	351.54
B1 (b) (Off-Peak)	266.63	1.59%	34,158	3992603			-	3,892.80	-	4,880.93	-	988.13
B2 (400 Volts 41-500 kw) B2-A (10)	0.04	0.00%	1,678	93			0	0.66	0	0.83	-	0.17
B2 - B TOU (Peak)	199.40	1.19%	-				-	4,011.93	-	5,030.46	-	1,018.54
B2 - B TOU (Off-peak)	967.80	5.78%	9,187	5546340			2,440	13,762.12	2,440	17,255.87	-	3,493.76
B3 - TOU (Peak)	142.63	0.85%	-				-	2,936.75	-	3,682.28	-	745.53
B3 - TOU (Off-peak)	649.87	3.88%	372	2834438			1,190	8,526.29	1,190	10,691.01	-	2,164.72
B4 - TOU (Peak)	35.97	0.21%	-				-	723.72	-	907.45	-	183.73
B4 - TOU (Off-peak)	199.07	1.19%	8	701266			281	2,790.96	281	3,499.45	-	708.49
Temporary E-2 (58)	3.20	0.02%	85	0			-	54.56	-	68.41	-	13.85
Total Industrial	2,566.32	15.33%	60,665	13,074,740			3,911	38,728	3,911	48,559	-	9,832
Bulk							-	-	-	-	-	-
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00%	32	66			-	0.19	-	0.23	-	0.05
C1(B) Supply at 400 Volts - above 5 kW	0.46	0.00%	128	1178			1	8.30	1	10.41	-	2.11
C-1C Time of Use (TOU) - Peak	11.16	0.07%	-				-	235.48	-	295.25	-	59.77
C-1C Time of Use (TOU) - Off Peak	32.65	0.20%	241	135152			59	420.86	59	527.69	-	106.83
C2A Supply at 11 kV	0.92	0.01%	9	2614			1	14.72	1	18.46	-	3.74
C-2B Time of Use (TOU) - Peak	51.42	0.31%	-				-	932.24	-	1,168.93	-	236.69
C-2B Time of Use (TOU) - Off Peak	148.64	0.89%	57	488994			205	2,095.82	205	2,627.81	-	531.98
C3-A Supply above 11 kV	1.62	0.01%	1	23980			10	25.84	10	32.40	-	6.56
C3-B Time of Use (TOU) - Peak	5.65	0.03%	-				-	113.85	-	142.75	-	28.90
C3-B Time of Use (TOU) - Off-Peak	29.68	0.18%	2	83120			33	417.00	33	522.87	-	105.87
Total Single Point Supply	282.21	1.69%	471	735,104			309	4,264	309	5,347	-	1,082
Agricultural Tube-wells - Tariff D			-				-	-	-	-	-	-
D-1A (41,42,43,44,45)	0.07	0.00%	2,757				-	1.28	-	1.60	-	0.32
D-1B (45) Peak	9.81	0.06%	-				-	204.34	-	256.22	-	51.88
D-1B (45) Off-Peak	39.24	0.23%	551	107707			22	588.60	22	738.03	-	149.43
D-2A (47,48,49,52) (NOR)	0.02	0.00%	9,378	2239			0	0.28	0	0.35	-	0.07
D-2A (47,48,49,52) (SUB)	0.05	0.00%	3	2743			1	0.69	1	0.87	-	0.18
D-2B (50,51,53,54) Peak (NOR)	0.15	0.00%	-				-	2.99	-	3.74	-	0.76
D-2B (50,51,53,54) Off-Peak (NOR)	0.45	0.00%	3,287	51674			10	5.57	10	6.99	-	1.41
D-2B (50,51,53,54) Peak (SUB)	434.24	2.59%	-				-	8,645.70	-	10,840.35	-	2,194.64
D-2B (50,51,53,54) Off-Peak (SUB)	2,505.49	14.97%	84,163	15136233			3,027	31,017.95	3,027	38,892.70	-	7,874.75
	-			0			-	-	-	-	-	-
Total Agricultural	2,989.52	17.86%	100,540	15,300,596			3,060	40,467	3,060	50,741	-	10,273
Public Lighting G	18.50	0.11%	1,683				-	326.16	-	408.96	-	82.81
Residential Colonies H	6.73	0.04%	125				-	121.54	-	152.40	-	30.86
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)	289.14	1.73%	41,433				-	5,126.45	-	6,427.87	-	1,301.42
			-							-		
Grand Total	16,740.58	100.00%	7,281,004	31,160,311			8,183	275,506	8,183	345,447	-	69,941
	-		-							0		0

MEPCO

Existing & Proposed Tariff Statement

F.Y. 2020-21

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Distribution losses	NEPRA Existing Tariff		Proposed New Tariff		Difference	
							Fixed Charge	Variable	Fixed	Variable	Fixed	Variable
	(MkWh)	%age		(kW)			(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)
Residential												
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	-	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
Temporary	0.52	0.00%	1,042	-				20.27	-	25.42	-	5.15
Total Residential	9,684.91	57.85%	6,466,363	-			-		-	-		
Commercial - A2	-	-	-						-	-	-	-
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) For peak load requirement exceeding 5 kW	-	0.00%	-	-			440		440	-	-	-
Regular A-2B	0.18	0.00%	27	1,620			440	17.55	440	22.01	-	4.46
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 Volts Upto 40kw) (07)	33.49	0.20%	15,159	-				19.20	-	24.07	-	4.87
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
B1 (b) (Off-Peak)	266.63	1.59%	34,158	3,992,603				14.60	-	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-peak)	649.87	3.88%	372	2,834,438			420	13.12	420	16.45	-	3.33
B4 - TOU (Peak)	35.97	0.21%	-	-			400	20.12	400	25.23	-	5.11
B4 - TOU (Off-peak)	199.07	1.19%	8	701,266			400	14.02	400	17.58	-	3.56
Temporary 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					-	-		
Bulk	-	-	-	-					-	-	-	-
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	-	5.36
C-1C Time of Use (TOU) - Off Peak	32.65	0.20%	241	135,152			440	12.89	440	16.16	-	3.27
C2A Supply at 11 kV	0.92	0.01%	9	2,614			420	16.00	420	20.06	-	4.06
C-2B Time of Use (TOU) - Peak	51.42	0.31%	-	-			420	18.13	420	22.73	-	4.60
C-2B Time of Use (TOU) - Off Peak	148.64	0.89%	57	488,994			420	14.10	420	17.68	-	3.58
C3-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	-	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	-	22.92	-	4.64
D-1B (45) Peak	9.81	0.06%	-	-			200	20.83	200	26.12	-	5.29
D-1B (45) Off-Peak	39.24	0.23%	951	107,707			200	15.00	200	18.81	-	3.81
D-2A (47,48,49,52) (NOR)	0.02	0.00%	9,378	2,239			200	13.83	200	17.34	-	3.51
D-2A (47,48,49,52) (SUB)	0.05	0.00%	3	2,743			200	13.83	200	17.34	-	3.51
D-2B (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-2B (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					-	-		
Public Lighting G	18.50	0.11%	1,683	-				17.63	-	22.11	-	4.48
Residential Colonies H	6.73	0.04%	125	-				18.06	-	22.65	-	4.59
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)	289.14	1.73%	41,433	-				17.73	-	22.23	-	4.50
			-							-		
Grand Total	16,740.58	100.00%	7,281,004	31,160,311			-					

FORM - 26

MEPCO

Existing & Proposed Tariff Statement

F.Y. 2021-22

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Distribution losses	NEPRA Existing Tariff		Proposed New Tariff		Difference	
							Fixed Charge	Variable Charge	Fixed Charge	Variable Charge	Fixed Charge	Variable Charge
	(MkWh)			(kW)			(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)
Residential												
Up to 50 Units	64.35	0.38%	563,193				-	322.72	-	297.10	-	(25.61)
For peak load requirement up to 5 kW			-				-	-	-	-	-	-
0i-100 Units	1,649.53	9.85%	3,892,914				-	32,740.70	-	30,138.56	-	(2,602.13)
101-200 Units	2,831.53	16.91%	1,886,671				-	58,083.17	-	53,467.78	-	(4,615.39)
201-300 Units	2,352.96	14.06%	380,086				-	51,423.94	-	47,339.20	-	(4,084.74)
301-700Units	2,627.51	15.70%	107,040				-	65,627.32	-	60,414.34	-	(5,212.98)
Above 700 Units	544.45	3.25%	5,100				-	14,267.86	-	13,134.31	-	(1,133.54)
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			-				-	-	-	-	-	-
Commercial - A-2A For peak load requirement up to 5 kW	513.01	3.06%	621,750				-	12,472.40	-	11,481.25	-	(991.14)
Commercial (<100)		0.00%	-				-	-	-	-	-	-
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) - Off-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	-	(13.60)
Total Commercial	970	5.79%	646,308	2,070,370			911	21,583	932	19,868	21	(1,715)
Industrial			-	0.00%			-	-	-	-	-	-
B1 (400 Volts Upto 40kw) (07)	35.50	0.21%	16,068	0			-	854.63	-	786.72	-	(67.91)
B1 (400 Volts Upto 40kw) (08)		0.00%	20	0			-	-	-	-	-	-
B1 (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	-	(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)	38.65	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	7	(294.32)
Temporary E-2 (58)	3.20	0.02%	90	0			-	68.41	-	62.98	-	(5.43)
Total Industrial	2,720	16.25%	64,304	13,205,487			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	-	(0.02)
C1(B) Supply at 400 Volts - above 5 kW	0.49	0.00%	136	1189.78			1	11.09	1	10.21	0	(0.88)
C-1C Time of Use (TOU) - Peak	11.72	0.07%	-	0			-	310.01	-	285.38	-	(24.63)
C-1C Time of Use (TOU) - Off Peak	34.28	0.20%	256	136503.52			60	554.07	61	510.05	1	(44.02)
C2A Supply at 11 kV	0.97	0.01%	10	2640.14			1	19.46	1	17.91	0	(1.55)
C-2B Time of Use (TOU) - Peak	53.99	0.32%	-	0			-	1,227.36	-	1,129.85	-	(97.51)
C-2B Time of Use (TOU) - Off Peak	156.07	0.93%	60	493883.94			207	2,759.16	212	2,539.88	5	(219.28)
C3-A Supply above 11 kV	1.70	0.01%	1	24219.8			10	34.00	10	31.30	0	(2.70)
C3-B Time of Use (TOU) - Peak	5.93	0.04%	-	0			-	149.90	-	137.99	-	(11.91)
C3-B Time of Use (TOU) - Off-Peak	31.17	0.19%	2	83951.2			34	549.07	34	505.43	1	(43.63)
Total Single Point Supply	296	1.77%	499	742,455			312	5,614	320	5,168	7	(446)
Agricultural Tube-wells - Tariff D			-	0			-	-	-	-	-	-
D-1A (41,42,43,44,46)	0.06	0.00%	2,923	0			-	1.83	-	1.69	-	(0.15)
D-1B (45) Peak	10.30	0.06%	-	0			-	269.02	-	247.64	-	(21.37)
D-1B (45) Off-Peak	41.20	0.25%	1,008	108784.07			22	774.89	23	713.34	1	(61.55)
D-2A (47,48,49,52) (NOR)	0.07	0.00%	9,940	2261.39			0	1.27	0	1.17	0	(0.10)
D-2A (47,48,49,52) (SUB)	0.63	0.00%	3	2770.43			1	10.99	1	10.12	0	(0.87)
D-2B (50,51,53,54) Peak (NOR)	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			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)
	-		-				-	-	-	-	-	-
Total Agricultural	3,132	18.71%	106,571	15,453,602			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 - Tariff K (AJK)	-	0.00%	-				-	-	-	-	-	-
Time of Use (TOU) - Peak		0.00%	-				-	-	-	-	-	-
Time of Use (TOU) - Off-Peak		0.00%	-				-	-	-	-	-	-
A-3a (66)	302.14	1.80%	43,921				-	6,716.76	-	6,183.19	-	(533.57)
			-				-	-	-	-	-	-
Grand Total	17,644	105.40%	7,717,864	31,471,914			8,265	364,191	8,539	335,257	274	(28,934)
										0		0

MEPCO

Existing & Proposed Tariff Statement

F.Y. 2021-22

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Distribution losses	NEPRA Existing Tariff		Proposed New Tariff		Difference	
							Fixed	Variable	Fixed	Variable	Fixed	Variable
	(MkWh)	%age		(kW)			(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)
Residential												
Up to 50 Units	64.35	0.38%	563,193	-			-	5.02	-	4.62	-	(0.40)
For peak load requirement up to 5 kW	-	-	-	-			-	-	-	-	-	-
01-100 Units	1,649.53	9.85%	3,892,914	-			-	19.85	-	18.27	-	(1.58)
101-200 Units	2,831.53	16.91%	1,866,671	-			-	20.51	-	18.88	-	(1.63)
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 (TOU) - Peak	25.21	0.15%	-	-			-	26.14	-	24.07	-	(2.08)
Time of Use (TOU) - Off-Peak	100.83	0.60%	18,236	-			-	19.01	-	17.50	-	(1.51)
Temporary	0.52	0.00%	1,104	-			-	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)
Commercial (<100)	-	0.00%	-	-			440	-	450	-	10.00	-
Commercial (<20 KW) For peak load requirement exceeding 5 kW	-	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)
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	18.12	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	-
Industrial	-	-	-	-			-	-	-	-	-	-
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	-			-	24.07	-	22.16	-	(1.91)
B1 (b) (Peak)	72.31	0.43%	-	-			-	25.45	-	23.43	-	(2.02)
B1 (b) (Off-Peak)	282.63	1.69%	36,207	4,032,529			-	18.31	-	16.85	-	(1.45)
B2 (400 Volts 41-500 kw) B2-A (10)	0.04	0.00%	1,778	94			440	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 - TOU (Off-peak)	688.86	4.11%	394	2,862,782			420	16.45	430	15.14	10	(1.31)
B4 - TOU (Peak)	38.65	0.23%	-	-			400	25.23	410	23.22	10	(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)
C2A Supply at 11 kV	0.97	0.01%	10	2,640			420	20.06	430	18.47	10	(1.59)
C-2B Time of Use (TOU) - Peak	53.99	0.32%	-	-			420	22.73	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	17.52	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	-	-	-	-			-	-	-	-	-	-
D-1A (41,42,43,44,46)	0.08	0.00%	2,923	-			-	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-2A (47,48,49,52) (NOR)	0.07	0.00%	9,940	2,261			200	17.34	210	15.96	10	(1.38)
D-2A (47,48,49,52) (SUB)	0.63	0.00%	3	2,770			200	17.34	210	15.96	10	(1.38)
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	-
Public Lighting G	19.24	0.11%	1,784	-			-	22.11	-	20.35	-	(1.76)
Residential Colonies H	7.07	0.04%	133	-			-	22.65	-	20.85	-	(1.80)
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)	302.14	1.80%	43,921	-			-	22.23	-	20.47	-	(1.77)
			-						-	-	-	-
Grand Total	17,643.96	105.40%	7,717,864	31,471,914			-					
	-	-	-	-								

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Existing & Proposed Tariff Statement

F.Y. 2022-23

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Distribution losses	NEPRA Existing Tariff		Proposed New Tariff		Difference	
							Fixed Charge	Variable Charge	Fixed Charge	Variable Charge	Fixed Charge	Variable Charge
	(MkWh)			(kW)			(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)
Residential												
Up to 50 Units	65.64	0.36%	601,546				-	303.06	-	335.49	-	32.43
For peak load requirement up to 5 kW	-	-	-				-	-	-	-	-	-
01-100 Units	1,682.52	9.33%	4,158,021				-	30,741.32	-	34,032.33	-	3,291.01
101-200 Units	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 5 kW		0.00%	-				-	-	-	-	-	-
Time of Use (TOU) - Peak	25.96	0.14%	-				-	624.85	-	691.68	-	66.83
Time of Use (TOU) - Off-Peak	103.86	0.53%	19,478				-	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
Commercial - A2	-	-	-				-	-	-	-	-	-
Commercial - A-2A For peak load requirement up to 5 kW	523.27	2.90%	664,091				-	11,710.78	-	12,962.97	-	1,252.19
Commercial (<100)		0.00%	-				-	-	-	-	-	-
Commercial (<20 KW) For peak load requirement exceeding 5 kW		0.00%	-				-	-	-	-	-	-
Regular A-2B	0.19	0.00%	30	1,653			1	3.85	1	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	5,867.07	940	6,494.61	-	627.55
Temporary Commercial E-111 (56)	6.89	0.04%	2,208	-			-	160.89	-	178.09	-	17.20
Total Commercial	989	5.49%	690,322	2,091,073			941	20,266	941	22,433	-	2,167
Industrial	-	-	-	-			-	-	-	-	-	-
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	-			-	-	-	-	-	-
B1 (b) (Peak)	73.76	0.41%	-	-			-	1,728.21	-	1,913.05	-	184.84
B1 (b) (Off-Peak)	288.27	1.60%	38,673	4,072,854			-	4,857.97	-	5,377.44	-	519.47
B2 (400 Volts 41-500 kw) B2-A (	0.04	0.00%	1,899	95			0	0.76	0	0.84	-	0.08
B2 - B TOU (Peak)	215.59	1.20%	-	-			-	5,006.91	-	5,542.22	-	535.31
B2 - B TOU (Off-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 - TOU (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	-			-	65.14	-	72.11	-	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 kW	0.50	0.00%	145	1,202			1	10.42	1	11.53	-	1.11
C-1C Time of Use (TOU) - Peak	11.95	0.07%	-	-			-	291.08	-	322.21	-	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%	11	2,667			1	18.28	1	20.24	-	1.96
C-2B Time of Use (TOU) - Peak	55.07	0.31%	-	-			-	1,152.44	-	1,275.69	-	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	10	35.46	-	3.43
C3-B Time of Use (TOU) - Peak	6.05	0.03%	-	6			0	140.74	0	155.79	-	15.05
C3-B Time of Use (TOU) - Off-Peak	31.79	0.18%	2	84,791			35	515.52	35	570.64	-	55.12
Total Single Point Supply	302	1.68%	532	749,836			323	5,272	323	5,835	-	564
Agricultural Tube-wells - Tariff D	-	-	-	-			-	-	-	-	-	-
D-1A (41,42,43,44,46)	-	0.00%	3,122	-			-	-	-	-	-	-
D-1B (45) Peak	10.51	0.06%	-	-			-	252.60	-	279.61	-	27.01
D-1B (45) Off-Peak	42.02	0.23%	1,077	109,872			23	727.60	23	805.39	-	77.79
D-2A (47,48,49,52) (NOR)	0.08	0.00%	10,617	2,284			0	1.28	0	1.41	-	0.14
D-2A (47,48,49,52) (SUB)	0.65	0.00%	3	2,798			1	10.38	1	11.49	-	1.11
D-2B (50,51,53,54) Peak (NOR)	0.11	0.00%	-	-			-	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-2B (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	-	4,090.35
	-	-	-				-	-	-	-	-	-
Total Agricultural	3,195	17.72%	113,828	15,608,138			3,278	49,915	3,278	55,252	-	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				-	148.22	-	164.06	-	15.85
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				-	6,307.31	-	6,981.65	-	674.34
			-							-		
Grand Total	18,028	100.00%	8,243,451	31,786,639			8,624	342,631	8,624	379,273	-	36,641
	-		-							(0)		0

MEPCO

Existing & Proposed Tariff Statement

F.Y. 2022-23

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Distribution losses	NEPRA Existing Tariff		Proposed New Tariff		Difference	
							Fixed	Variable	Fixed	Variable	Fixed	Variable
	(MkWh)	%age		(kW)			(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)
Residential												
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	1,692.52	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 Units	2,411.78	13.38%	405,970	-			-	20.12	-	22.27	-	2.15
301-700Units	2,693.20	14.94%	114,329	-			-	22.99	-	25.45	-	2.46
Above 700 Units	555.34	3.08%	5,447	-			-	24.12	-	26.70	-	2.58
5 kW	-	0.00%	-	-			-	-	-	-	-	-
Time of Use (TOU) - Peak	25.96	0.14%	-	-			-	24.07	-	26.64	-	2.57
Time of Use (TOU) - Off-Peak	103.86	0.58%	19,478	-			-	17.50	-	19.37	-	1.87
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	-			-	22.38	-	24.77	-	2.39
Commercial (<100)	-	0.00%	-	-			450	-	450	-	-	-
For peak load requirement exceeding 5 kW	-	0.00%	-	-			450	-	450	-	-	-
Regular A-2B	0.19	0.00%	30	1,653			450	20.26	450	22.42	-	2.17
A-2C (TOU) - Peak (A-2)	107.26	0.59%	-	-			450	23.52	450	26.04	-	2.52
A-2C (TOU) - Off-Peak	351.76	1.95%	23,993	2,089,421			450	16.68	450	18.46	-	1.78
Temporary Commercial E-111 (56)	6.89	0.04%	2,208	-			-	23.35	-	25.85	-	2.50
Total Commercial	989.37	5.49%	690,322	2,091,073			2,250	-	2,250.00	-		
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
B2 (400 Volts 41-500 kw) B2-A (	0.04	0.00%	1,899	95			450	19.07	450	21.11	-	2.04
B2 - B TOU (Peak)	215.59	1.20%	-	-			450	23.22	450	25.71	-	2.48
B2 - B TOU (Off-peak)	1,046.39	5.80%	10,401	5,657,821			450	16.41	450	18.17	-	1.76
B3 - TOU (Peak)	154.21	0.86%	-	-			430	23.77	430	26.31	-	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	-	2.48
B4 - TOU (Off-peak)	214.34	1.19%	10	715,361			410	16.18	410	17.91	-	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	-	-	-	-			-	-	-	-	-	-
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00%	36	67			-	21.62	-	23.93	-	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-2B 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			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%	-	6			410	23.26	410	25.75	-	2.49
C3-B Time of Use (TOU) - Off-Peak	31.79	0.18%	2	84,791			410	16.22	410	17.95	-	1.73
Total Single Point Supply	302.26	1.68%	532	749,886			3,870	-	3,870	-		
Agricultural Tube-wells - Tariff	-	-	-	-			-	-	-	-	-	-
D-1A (41,42,43,44,46)	-	0.00%	3,122	-			-	21.10	-	23.36	-	2.26
D-1B (45) Peak	10.51	0.06%	-	-			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%	3	2,798			210	15.96	210	17.67	-	1.71
D-2B (50,51,53,54) Peak (NOR)	0.11	0.00%	-	-			210	22.98	210	25.44	-	2.46
D-2B (50,51,53,54) Off-Peak (NOR)	0.33	0.00%	3,721	52,713			210	14.29	210	15.82	-	1.53
D-2B (50,51,53,54) Peak (SUB)	463.96	2.57%	-	-			210	22.98	210	25.44	-	2.46
D-2B (50,51,53,54) Off-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	-			-	20.35	-	22.53	-	2.18
Residential Colonies H	7.11	0.04%	142	-			-	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					
	-	-	-	-								

FORM - 26

MEPCO

Existing & Proposed Tariff Statement

F.Y. 2023-24

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Distribution losses	NEPRA Existing Tariff		Proposed New Tariff		Difference	
							Fixed Charge	Variable Charge	Fixed Charge	Variable Charge	Fixed Charge	Variable 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	-		-				-	-	-	-	-	-
01-100 Units	1,716.17	9.32%	4,407,502				-	34,712.97	-	35,907.42	-	1,194.45
101-200 Units	2,951.70	16.03%	2,136,062				-	61,696.43	-	63,815.75	-	2,119.32
201-300 Units	2,460.02	13.36%	430,328				-	54,784.65	-	56,666.56	-	1,881.92
301-700Units	2,760.53	14.99%	121,189				-	70,261.01	-	72,673.71	-	2,412.70
Above 700 Units	566.44	3.08%	5,774				-	15,126.21	-	15,645.64	-	519.43
For peak load requirement exceeding 5 kW		0.00%	-				-	-	-	-	-	-
Time of Use (TOU) - Peak	26.74	0.15%	-				-	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 - A2		-	-				-	-	-	-	-	-
For peak load requirement up to 5 kW	533.74	2.90%	703,936				-	13,222.34	-	13,676.55	-	454.21
Commercial (<100)		0.00%	-				-	-	-	-	-	-
Commercial (<20 kW) For peak load requirement exceeding 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 (TOU) - Peak (A-2)	109.44	0.59%	-	-			-	2,849.91	-	2,947.86	-	97.95
A-2C (TOU) - Off-Peak	358.76	1.95%	25,433	2,110,315			950	6,623.72	971	6,851.17	21.10	227.45
Temporary Commercial E-111 (56)	7.02	0.04%	2,340	-			-	181.45	-	187.69	-	6.23
Total Commercial	1,009	5.48%	731,741	2,111,984			950	22,882	972	23,668	21	786
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	-			-	-	-	-	-	-
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	4,113,563			-	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 TOU (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
B3 - TOU (Peak)	157.30	0.85%	-	-			-	4,137.99	-	4,280.19	-	142.20
B3 - TOU (Off-peak)	716.69	3.89%	446	2,920,324			1,256	12,013.94	1,285	12,426.75	29	412.82
B4 - TOU (Peak)	41.26	0.22%	-	-			-	1,060.55	-	1,096.98	-	36.43
B4 - TOU (Off-peak)	218.07	1.18%	11	722,515			296	3,906.15	303	4,040.27	7	134.12
Temporary E-2 (58)	3.41	0.02%	102	-			-	74.29	-	76.84	-	2.55
Total Industrial	2,837	15.41%	72,804	13,470,918			4,123	54,703	4,217	56,582	94	1,879
Bulk	-	-	-	-			-	-	-	-	-	-
C1(A) Supply at 400 Volts - up to 5 kW	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	1	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 (TOU) - 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			10	36.07	10	37.31	0	1.24
C3-B Time of Use (TOU) - Peak	6.17	0.03%	-	-			-	158.92	-	164.39	-	5.46
C3-B Time of Use (TOU) - Off-Peak	32.43	0.18%	2	85,639			33	582.10	36	602.11	1	20.01
Total Single Point Supply	308	1.67%	564	757,378			326	5,952	334	6,157	8	205
Agricultural Tube-wells - Tariff D	-	-	-	-			-	-	-	-	-	-
D-1A (41,42,43,44,46)	-	0.00%	3,309	-				-	-	-	-	-
D-1B (45) Peak	10.77	0.06%	-	-				286.58	-	296.42	-	9.84
D-1B (45) Off-Peak	43.07	0.23%	1,142	110,971			23	825.47	24	853.82	1	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	1	12.06	0	0.40
D-2B (50,51,53,54) Peak (NOR)	0.11	0.00%	-	-			-	2.86	-	2.96	-	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	1	0.18
D-2B (50,51,53,54) Peak (SUB)	473.24	2.57%	-	-			-	12,036.73	-	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
	-	-	-				-	-	-	-	-	-
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	-	15.57
Residential Colonies H	7.32	0.04%	151				-	168.91	-	174.71	-	5.80
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)	314.40	1.71%	49,731					7,122.10	-	7,366.71	-	244.60
		-	-							-		
Grand Total	18,411	100.00%	8,738,058	32,104,500			8,711	387,366	8,991	400,672	280	13,307
										(0)		(0)

MEPCO

Existing & Proposed Tariff Statement

F.Y. 2023-24

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factors	Distributio Losses	NEPRA Existing Tariff		Proposed New Tariff		Difference	
							Fixed	Variable	Fixed	Variable	Fixed	Variable
	(MkWh)	%age		(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	-			-	5.11	-	5.29	-	0.18
For peak load requirement up to 5 kW	-	-	-	-			-	-	-	-	-	-
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 Units	566.44	3.08%	5,774	-			-	26.70	-	27.62	-	0.92
5 kW	-	0.00%	-	-			-	-	-	-	-	-
Time of Use (TOU) - Peak	26.74	0.15%	-	-			-	26.64	-	27.56	-	0.91
Time of Use (TOU) - Off-Peak	106.97	0.58%	20,647	-			-	19.37	-	20.04	-	0.66
Temporary	0.53	0.00%	1,250	-			-	25.90	-	26.79	-	0.89
Total Residential	10,656.05	57.88%	7,760,391	-			-	-	-	-		
Commercial - A2	-	-	-				-	-	-	-	-	-
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 peak load requirement exceeding 5 kW	-	0.00%	-	-			450	-	460	-	10.00	-
Regular 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-2C (TOU) - Off-Peak	358.76	1.95%	25,433	2,110,315			450	18.46	460	19.10	10.00	0.63
Temporary Commercial E-111 (56)	7.02	0.04%	2,340	-			-	25.85	-	26.74	-	0.89
Total Commercial	1,009.16	5.48%	731,741	2,111,984			2,250	-		-		
Industrial	-	-	-	-			-	-	-	-	-	-
B1 (400 Volts Upto 40kw) (07)	36.93	0.20%	18,192	-			-	24.53	-	25.37	-	0.84
B1 (400 Volts Upto 40kw) (08)	-	0.00%	22	-			-	24.53	-	25.37	-	0.84
B1 (b) (Peak)	75.23	0.41%	-	-			-	25.94	-	26.83	-	0.89
B1 (b) (Off-Peak)	294.05	1.60%	40,993	4,113,583			-	18.65	-	19.30	-	0.64
B2 (400 Volts 41-500 kw) B2-A (	0.04	0.00%	2,013	96			450	21.11	460	21.83	10	0.73
B2 - B TOU (Peak)	220.98	1.20%	-	-			450	25.71	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			430	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	-		-		
Bulk	-	-	-	-			-	-	-	-	-	-
C1(A) Supply at 400 Volts - up to 5 kW	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-2B Time of Use (TOU) - Peak	56.17	0.31%	-	-			430	23.17	440	23.96	10	0.80
C-2B Time of Use (TOU) - Off Peak	162.38	0.88%	68	503,811			430	18.01	440	18.63	10	0.62
C3-A Supply above 11 kV	1.77	0.01%	1	24,707			410	20.38	420	21.08	10	0.70
C3-B Time of Use (TOU) - Peak	6.17	0.03%	-	-			410	25.75	420	26.63	10	0.88
C3-B Time of Use (TOU) - Off-Peak	32.43	0.18%	2	85,639			410	17.95	420	18.57	10	0.62
Total Single Point Supply	308.31	1.67%	564	757,378			3,870	-		-		
Agricultural Tube-wells - Tariff	-	-	-	-			-	-	-	-	-	-
D-1A (41,42,43,44,46)	-	0.00%	3,309	-			-	23.36	-	24.16	-	0.80
D-1B (45) Peak	10.77	0.06%	-	-			210	26.61	220	27.53	10	0.91
D-1B (45) Off-Peak	43.07	0.23%	1,142	110,971			210	19.17	220	19.82	10	0.66
D-2A (47,48,49,52) (NOR)	0.08	0.00%	11,254	2,307			210	17.67	220	18.28	10	0.61
D-2A (47,48,49,52) (SUB)	0.66	0.00%	3	2,826			210	17.67	220	18.28	10	0.61
D-2B (50,51,53,54) Peak (NOR)	0.11	0.00%	-	-			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			210	15.82	220	16.36	10	0.54
D-2B (50,51,53,54) Peak (SUB)	473.24	2.57%	-	-			210	25.44	220	26.31	10	0.87
D-2B (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
	-	-	-	-			-	-	-	-	-	-
Total Agricultural	3,258.76	17.70%	120,657	15,764,219			1,680	-		-		
Public Lighting G	20.12	0.11%	2,019	-			-	22.53	-	23.30	-	0.77
Residential Colonies H	7.32	0.04%	151	-			-	23.08	-	23.87	-	0.79
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)	314.40	1.71%	49,731	-			-	22.65	-	23.43	-	0.78
			-							-		
Grand Total	18,410.62	100.00%	8,738,058	32,104,500			10,830					
	-	-	-	-								

FORM - 26

MEPCO

Existing & Proposed Tariff Statement

F.Y. 2024.25

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Distribution losses	NEFRA Existing Tariff		Proposed New Tariff		Difference	
							Fixed Charge	Variable Charge	Fixed Charge	Variable Charge	Fixed Charge	Variable Charge
	(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				-	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%	-				-	-	-	-	-	-
Time of Use (TOU) - Peak	27.41	0.15%	-				-	755.34	-	809.89	-	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				-	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%	-				-	-	-	-	-	-
Commercial (<20 kW) For peak load requirement exceeding 5 kW		0.00%	-				-	-	-	-	-	-
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%	-	-			-	3,006.86	-	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	-			-	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	-	-	-	-			-	-	-	-	-	-
B1 (400 Volts Upto 40kw) (07)	37.67	0.20%	19,284	-			-	955.84	-	1,024.89	-	69.05
B1 (400 Volts Upto 40kw) (08)	-	0.00%	23	-			-	-	-	-	-	-
B1 (b) (Peak)	76.74	0.41%	-	-			-	2,058.73	-	2,207.45	-	148.72
B1 (b) (Off-Peak)	299.92	1.60%	43,453	4,154,719			-	5,786.99	-	6,205.08	-	418.09
B2 (400 Volts 41-500 kw) B2-A (1	0.04	0.00%	2,134	97			0	0.87	0	0.94	-	0.06
B2 - B TOU (Peak)	225.40	1.20%	-	-			-	5,993.42	-	6,426.19	-	432.77
B2 - B TOU (Off-peak)	1,094.00	5.82%	11,687	5,771,544			2,655	20,558.42	2,655	22,042.98	-	1,484.56
B3 - TOU (Peak)	160.44	0.85%	-	-			-	4,365.79	-	4,681.06	-	315.27
B3 - TOU (Off-peak)	731.03	3.89%	473	2,949,528			1,298	12,675.29	1,298	13,590.54	-	915.25
B4 - TOU (Peak)	42.63	0.23%	-	-			-	1,133.61	-	1,215.47	-	81.86
B4 - TOU (Off-peak)	221.74	1.18%	12	729,740			306	4,108.12	306	4,404.81	-	296.68
Temporary E-2 (58)	3.62	0.02%	108	-			-	81.57	-	87.46	-	5.89
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	69			-	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	-	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	619.80	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%	-	-			-	1,372.86	-	1,472.04	-	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%	-	-			-	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
Total Single Point Supply	314	1.67%	597	764,952			337	6,280	337	6,733	-	454
Agricultural Tube-wells - Tariff D	-	-	-	-			-	-	-	-	-	-
D-1A (41,42,43,44,46)	-	0.00%	3,503	-			-	-	-	-	-	-
D-1B (45) Peak	10.98	0.06%	-	-			-	302.37	-	324.20	-	21.84
D-1B (45) Off-Peak	43.94	0.23%	1,211	112,080			25	870.94	25	933.86	-	62.92
D-2A (47,48,49,52) (NOR)	0.08	0.00%	11,929	2,330			1	1.46	1	1.57	-	0.11
D-2A (47,48,49,52) (SUB)	0.68	0.00%	3	2,854			1	12.43	1	13.33	-	0.90
D-2B (50,51,53,54) Peak (NOR)	0.12	0.00%	-	-			-	3.03	-	3.24	-	0.22
D-2B (50,51,53,54) Off-Peak (NOR)	0.35	0.00%	4,181	53,772			12	5.64	12	6.05	-	0.41
D-2B (50,51,53,54) Peak (SUB)	482.70	2.57%	-	-			-	12,701.37	-	13,618.50	-	917.14
D-2B (50,51,53,54) Off-Peak (SUB)	2,785.10	14.81%	107,065	15,750,825			3,465	45,566.97	3,465	48,858.95	-	3,291.98
	-	-	-	-			-	-	-	-	-	-
Total Agricultural	3,324	17.68%	127,897	15,921,862			3,503	59,464	3,503	63,760	-	4,296
Public Lighting G	20.52	0.11%	2,140	-			-	478.12	-	512.65	-	34.54
Residential Colonies H	7.47	0.04%	160	-			-	178.29	-	191.17	-	12.88
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)	320.67	1.71%	52,714	-			-	7,513.62	-	8,056.19	-	542.57
	-	-	-				-		-	-		
Grand Total	18,801	100.00%	9,262,341	32,425,545			9,080	409,219	9,080	438,769	-	29,550
	-	-	-							(0)		0

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Existing & Proposed Tariff Statement

F.Y. 2024.25

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Distribution losses	NEPRA Existing Tariff		Proposed New Tariff		Difference	
							Fixed	Variable	Fixed	Variable	Fixed	Variable
	(MkWh)	%age		(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	-			-	5.29	-	5.67	-	0.38
For peak load requirement up to 5 kW	-	-	-	-			-	-	-	-	-	-
01-100 Units	1,753.93	9.33%	4,671,952	-			-	20.92	-	22.43	-	1.51
101-200 Units	3,013.68	16.03%	2,264,226	-			-	21.62	-	23.18	-	1.56
201-300 Units	2,514.14	13.37%	456,148	-			-	23.04	-	24.70	-	1.66
301-700Units	2,824.02	15.02%	128,460	-			-	26.33	-	28.23	-	1.90
Above 700 Units	579.47	3.08%	6,120	-			-	27.62	-	29.62	-	2.00
kW	-	0.00%	-	-			-	-	-	-	-	-
Time of Use (TOU) - Peak	27.41	0.15%	-	-			-	27.56	-	29.55	-	1.99
Time of Use (TOU) - Off-Peak	109.65	0.58%	21,886	-			-	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	-	-	-
For peak load requirement exceeding 5 kW	-	0.00%	-	-			460	-	460	-	-	-
Regular A-2B	0.20	0.00%	34	1,686			460	23.19	460	24.87	-	1.68
A-2C (TOU) - Peak (A-2)	111.63	0.59%	-	-			460	26.94	460	28.88	-	1.95
A-2C (TOU) - Off-Peak	365.94	1.95%	26,959	2,131,418			460	19.10	460	20.48	-	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				-	-	-		
Industrial	-	-	-	-			-	-	-	-	-	-
B1 (400 Volts Upto 40kw) (07)	37.67	0.20%	19,284	-			-	25.37	-	27.21	-	1.83
B1 (400 Volts Upto 40kw) (08)	-	0.00%	23	-			-	25.37	-	27.21	-	1.83
B1 (b) (Peak)	76.74	0.41%	-	-			-	26.83	-	28.77	-	1.94
B1 (b) (Off-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
B4 - TOU (Peak)	42.63	0.23%	-	-			420	26.59	420	28.51	-	1.92
B4 - TOU (Off-peak)	221.74	1.18%	12	729,740			420	18.53	420	19.87	-	1.34
Temporary E-2 (58)	3.62	0.02%	108	-			-	22.53	-	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			460	23.85	460	25.58	-	1.72
C-1C Time of Use (TOU) - Peak	12.44	0.07%	-	-			460	27.88	460	29.90	-	2.01
C-1C Time of Use (TOU) - Off Peak	36.38	0.19%	306	140,640			460	17.04	460	18.27	-	1.23
C2A Supply at 11 kV	1.03	0.01%	13	2,720			440	21.15	440	22.67	-	1.53
C-2B 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				-	-	-		
Agricultural Tube-wells - Tariff D	-	-	-	-			-	-	-	-	-	-
D-1A (41,42,43,44,46)	-	0.00%	3,508	-			-	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-2B (50,51,53,54) Peak (SUB)	482.70	2.57%	-	-			220	26.31	220	28.21	-	1.90
D-2B (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	3,323.94	17.68%	127,897	15,921,862				-	-	-		
Public Lighting G	20.52	0.11%	2,140	-			-	23.30	-	24.98	-	1.68
Residential Colonies H	7.47	0.04%	160	-			-	23.87	-	25.59	-	1.72
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)	320.67	1.71%	52,714	-			-	23.43	-	25.12	-	1.69
			-							-		
Grand Total	18,800.78	100.00%	9,262,341	32,425,545			-					
	-	-	-	-								

DF - FORM 27

This Format Relates to Power Supply Business
Power Distribution Business

MEPCO

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

Actual Revenue & Subsidy Statement

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

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	NEPRA Determined Tariff		GOP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		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)	(Rs/kWh)
Residential													
Consumption Up to 50 Units A-1A (01)	55	0.33	483,869	-		-	4.00	-	2.00	-	-	2.00	2.00
Consumption Exceeding 50 Units A-1A (01)													
01-100 Units	3,436	20.97	3,216,408	-		-	14.07	-	5.79	-	-	8.28	8.28
101 - 200 Units	2,594	15.84	1,743,763	-		-	14.78	-	8.11	-	-	6.67	6.67
201 - 300 Units	2,141	13.07	437,458	-		-	15.95	-	10.20	-	-	5.75	5.75
301 - 700 Units	983	6.00	136,047	-		-	18.84	-	17.60	(0.22)	-	1.46	1.24
Above 700 Units	143	0.87	4,127	-		-	19.98	-	20.70	(0.79)	-	0.06	(0.72)
A-1B (03), Peak	21	0.13	-	-		-	19.58	-	20.70	(1.15)	-	0.04	(1.12)
A-1B (03), Off-Peak	96	0.59	14,803	-		-	13.96	-	14.36	(0.83)	-	0.43	(0.40)
Temporary Domestic E-11 (55)	1	0.00	985	-		-	18.60	-	20.84	(2.24)	-	-	(2.24)
Total Residential	9,470	57.80	6,037,460	-	-								
	-	-				-	-	-	-	-	-	-	-
For peak load requirement up to 5 kw	-	-											
	-	-				-	-	-	-	-	-	-	-
Commercial A-2A (04)	478	2.92	555,043	-		-	18.16	-	18.00	(0.61)	-	0.77	0.16
Above 100 units	-	-		-		-	-	-	-	-	-	-	-
For peak load requirement exceeding 5 kw	-	-		-		-	-	-	-	-	-	-	-
A-2B (05)	0	0.00	27	1,620		400.00	16.49	400.00	19.68	(3.19)	-	-	(3.19)
A-2C (06), Peak	79	0.48	-	-		-	19.28	-	21.60	(2.32)	-	-	(2.32)
A-2C (06), Off-Peak	339	2.07	19,204	2,048,251		400.00	13.30	400.00	15.63	(2.33)	-	-	(2.33)
Temporary Commercial E-111 (56)	6	0.04	1,720	-		-	18.75	-	18.39	(0.55)	-	0.91	0.36
Total Commercial	903	5.51	575,994	2,049,872	-								
	-	-				-	-	-	-	-	-	-	-
B-1 (400 volts upto 40 kw) (07)	32	0.20	14,855	-		-	17.93	-	15.28	-	-	2.65	2.65
B-1 (400 volts upto 40 kw) (08)	0	0.00	18	-		-	16.72	-	15.28	-	-	1.44	1.44
B-1 (09), Peak	40	0.24	-	-		-	18.92	-	18.84	(0.67)	-	0.75	0.08
B-1 (09), Off-Peak	289	1.76	31,678	3,992,603		-	13.31	-	13.28	(0.68)	-	0.71	0.03
B-2 (400 volts 41-500 kw) B-2A (10)	0	0.00	1,633	93		400.00	14.90	400.00	14.78	(0.63)	-	0.75	0.12
B-2B (12), Peak	153	0.93	-	-		-	18.99	-	18.78	(0.61)	-	0.82	0.21
B-2B (12), Off-Peak	989	6.04	8,594	5,546,340		400.00	13.06	400.00	13.07	(0.70)	-	0.70	(0.01)
B-3 (14), Peak	117	0.72	-	-		-	19.39	-	18.78	(0.44)	-	1.05	0.61
B-3 (14), Off-Peak	656	4.00	353	2,834,438		380.00	11.92	380.00	12.98	(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)	-	0.69	(0.02)
Temporary Industrial E-2 (58)	0	0.00	81	-		-	16.10	-	16.36	(0.66)	-	0.40	(0.26)
Total Industrial	2,509	15.32	57,219	13,074,739	-								
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	-	-		-	9.84	-	21.60	(1.76)	-	-	(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-B (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	2.93	380.00	14.80	(1.87)	-	-	(1.87)
C-3A	2	0.01	1	23,980		360.00	20.25	360.00	17.88	-	-	2.37	2.37
C3-B (38), Peak	6	0.03	-	-		-	8.97	-	21.60	(2.63)	-	-	(2.63)
C3-B (38), Off-Peak	29	0.18	2	83,120		360.00	2.91	360.00	14.70	(1.79)	-	-	(1.79)
Total Bulk	276	1.68	457	735,104	-								
	-	-				-	-	-	-	-	-	-	-
D-1A (41,42,43,44,46)	0	0.00	2,723	-		-	16.47	-	15.68	(0.25)	-	1.03	0.79
D-1B (45) Peak	3	0.02	-	-		-	9.44	-	18.60	(0.34)	-	1.18	0.84
D-1B (45) Off-Peak	45	0.28	967	107,707		200.00	13.35	200.00	11.35	-	-	2.00	2.00
D-2A (47,48,49,52) (NOR)	0	0.00	9,039	2,239		200.00	15.54	200.00	5.35	-	-	10.19	10.19
D-2A (47,48,49,52) (SUB)	0	0.00	48	2,743		200.00	15.38	-	5.35	-	1.13	10.03	11.16
D-2B (50,51,53,54) Peak (NOR)	1	0.01	-	-		-	18.62	-	5.35	-	-	13.27	13.27
D-2B (50,51,53,54) Off-Peak (NOR)	7	0.04	2,907	51,674		200.00	10.61	200.00	5.35	-	-	5.26	5.26
D-2B (50,51,53,54) Peak (SUB)	429	2.62	-	-		-	18.50	-	5.35	-	-	13.15	13.15
D-2B (50,51,53,54) Off-Peak (SUB)	2,431	14.84	76,725	15,136,233		200.00	10.97	-	5.35	-	1.25	5.62	6.87
Total Agricultural	2,917	17.80	92,405	15,300,595	-								
	-	-				-	-	-	-	-	-	-	-
G (72,73)	18	0.11	1,580	-		-	16.23	-	18.68	(2.45)	-	-	(2.45)
Total Public Lighting	18	0.11	1,580	-	-								
	-	-				-	-	-	-	-	-	-	-
H (76,79)	7	0.04	122	-		-	16.64	-	18.68	(2.04)	-	-	(2.04)
Total Residential Colonies	7	0.04	122	-	-								
	-	-				-	-	-	-	-	-	-	-
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	-	-								
	-	-				-	-	-	-	-	-	-	-
TOTAL	16,382	100.00	6,802,507	31,160,311	-								

DF - FORM 27 (A)

MEPCO

Actual Revenue & Subsidy Statement

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

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	NEPRA Determined Tariff		GOP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charge	TOTAL
	(MkWh)	(%age)	Nos.	(kW)	(%age)	Mln. Rs.	Mln. Rs.	Mln. Rs.	Mln. Rs.	Mln. Rs.	Mln. Rs.	Mln. Rs.	Mln. Rs.
Residential													
Consumption Up to 50 Units A-1A (01)	55	0.33	483,869	-	-	-	219	-	110	-	-	110	110
Consumption Exceeding 50 Units A-1A (0	-	-	-	-	-	-	-	-	-	-	-	-	-
01-100 Units	3,436	20.97	3,216,408	-	-	-	48,346	-	19,894	-	-	28,452	28,452
101 - 200 Units	2,594	15.84	1,743,763	-	-	-	38,351	-	21,039	-	-	17,312	17,312
201 - 300 Units	2,141	13.07	437,458	-	-	-	34,162	-	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	-	431	(24)	-	1	(23)
A-1B (03), Off-Peak	96	0.59	14,803	-	-	-	1,348	-	1,387	(80)	-	42	(39)
Temporary Domestic E-11 (55)	1	0.00	985	-	-	-	9	-	11	(1)	-	-	(1)
Total Residential	9,470	57.80	6,037,460	-	-	-	144,213	-	84,964	(434)	-	59,684	59,250
	-	-	-	-	-	-	-	-	-	-	-	-	-
For peak load requirement up to 5 kw	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial A-2A (04)	478	2.92	555,043	-	-	-	8,686	-	8,609	(292)	-	369	77
Above 100 units	-	-	-	-	-	-	-	-	-	-	-	-	-
For peak load requirement 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	-	819	4,515	819	5,306	(791)	-	-	(791)
Temporary Commercial E-111 (56)	6	0.04	1,720	-	-	-	117	-	114	(3)	-	6	2
Total 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	3
B-1 (09), Off-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	353	2,834,438	-	1,077	7,815	1,077	8,511	(766)	-	70	(696)
B-4 (17), Peak (5 MW & above)	38	0.23	-	-	-	-	713	-	706	(24)	-	30	6
B-4 (17), Off-Peak	195	1.19	7	701,266	-	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 Volts - Peak Load	0	0.00	125	1,178	-	0	7	0	8	(1)	-	-	(1)
C1-C (26), Peak	7	0.04	-	-	-	-	144	-	157	(13)	-	-	(13)
C-1C (26), Off Peak	36	0.22	235	135,152	-	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	2	0.01	1	23,980	-	9	32	9	28	-	-	4	4
C3-B (38), Peak	6	0.03	-	-	-	-	106	-	121	(15)	-	-	(15)
C3-B (38), Off-Peak	29	0.18	2	83,120	-	30	375	30	427	(52)	-	-	(52)
Total Bulk	276	1.68	457	735,104	-	280	3,753	280	4,414	(665)	-	4	(661)
	-	-	-	-	-	-	-	-	-	-	-	-	-
D-1A (41,42,43,44,46)	0	0.00	2,723	-	-	-	1	-	1	(0)	-	0	0
D-1B (45) Peak	3	0.02	-	-	-	-	51	-	49	(1)	-	3	2
D-1B (45) Off-Peak	45	0.28	967	107,707	-	22	604	22	513	-	-	90	90
D-2A (47,48,49,52) (NOR)	0	0.00	9,039	2,239	-	0	3	0	1	-	-	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	-	-	-	-	19	-	5	-	-	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-2B (50,51,53,54) Off-Peak (SUB)	2,431	14.84	76,725	15,136,233	-	3,027	26,674	-	13,008	-	3,027	13,665	16,693
Total Agricultural	2,917	17.80	92,409	15,300,595	-	3,060	35,362	32	15,911	(1)	3,028	19,452	22,479
	-	-	-	-	-	-	-	-	-	-	-	-	-
G (72,73)	18	0.11	1,580	-	-	-	293	-	337	(44)	-	-	(44)
Total Public Lighting	18	0.11	1,580	-	-	-	293	-	337	(44)	-	-	(44)
	-	-	-	-	-	-	-	-	-	-	-	-	-
H (76,79)	7	0.04	122	-	-	-	109	-	123	(13)	-	-	(13)
Total Residential Colonies	7	0.04	122	-	-	-	109	-	123	(13)	-	-	(13)
	-	-	-	-	-	-	-	-	-	-	-	-	-
A-3a (66)	283	1.73	37,266	-	-	-	4,941	-	4,966	(210)	-	186	(24)
Total A-3a (66)	283	1.73	37,266	-	-	-	4,941	-	4,966	(210)	-	186	(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)

MEPCO

Actual Revenue & Subsidy Statement

F.Y. 2019-20 - (JULY-DECEMBER)

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	NEPRA Determined Tariff		GOP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		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)	(Rs/kWh)
Residential													
Consumption Up to 50 Units A-1A (01)	21	0.13	354,969	-			4.00		2.00		-	2.00	2
Consumption Exceeding 50 Units A-1A (01)													
01-100 Units	1,779	10.86	4,399,021	-			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
Above 700 Units	102	0.62	14,414	-			20.79	-	20.70		-	0.09	0
A-1B (03), Peak	12	0.07	-	-			20.76	-	20.70		-	0.06	0
A-1B (03), Off-Peak	59	0.36	14,465	-		-	15.08	-	14.38		-	0.70	1
Temporary Domestic E-11 (55)	0	0.00	979	-		-	20.17	-	20.84		-	(0.67)	(1)
Total Residential	5,427	33.13	5,949,793	-	-								
	-	-		-							-	-	-
For peak load requirement up to 5 kw	-	-		-							-	-	-
Commercial A-2A (04)	300	1.83	550,747	-			19.23	-	18.00		-	1.23	1
Above 100 units	-	-		-							-	-	-
For peak load requirement exceeding 5 kw	-	-		-							-	-	-
A-2B (05)	0	0.00	27	926		400.00	17.59	400.00	19.68		-	(2.09)	(2)
A-2C (06), Peak	48	0.29	-	-		400.00	20.40	400.00	21.60		-	(1.20)	(1)
A-2C (06), Off-Peak	201	1.23	18,632	1,187,912		400.00	14.47	400.00	15.63		-	(1.16)	(1)
Temporary Commercial E-111 (56)	3	0.02	1,700	-			20.07		18.39		-	1.68	2
Total Commercial	553	3.37	571,106	1,188,838	-								
	-	-		-							-	-	-
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	22	0.14	-	-		-	20.17		18.84		-	1.33	1
B-1 (09), Off-Peak	172	1.05	31,352	2,182,858		-	14.47		13.28		-	1.19	1
B-2 (400 volts 41-500 kw) B-2A (10)	0	0.00	1,633	42		400.00	16.58	400.00	14.78		-	1.80	2
B-2B (12), Peak	90	0.55	-	-		400.00	20.17	400.00	18.78		-	1.39	1
B-2B (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	18.78	-	-	1.39	1
B-4 (17), Off-Peak	112	0.69	7	398,633		360.00	14.07	360.00	12.88		-	1.19	1
Temporary Industrial E-2 (58)	0	0.00	80	-		-	16.92	-	16.36		-	0.56	1
Total Industrial	1,448	8.84	56,793	7,502,426	-								
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 Load	0	0.00	125	468		400.00	18.07	400.00	18.18		-	(0.11)	(0)
C1-C (26), Peak	4	0.02	-	-		400.00	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)
C-2A (28), Supply at 11 KV	0	0.00	9	1,416		380.00	16.02	380.00	17.98		-	(1.96)	(2)
C2-B (29), Peak	19	0.12	-	-		380.00	18.15	380.00	21.60		-	(3.45)	(3)
C2-B (29), Off-Peak	94	0.58	54	287,722		380.00	14.12	380.00	14.80		-	(0.68)	(1)
C-3A	1	0.01	1	17,160		360.00	20.87	360.00	17.88		-	2.99	3
C3-B (39), Peak	3	0.02	-	-		360.00	20.17	360.00	21.60		-	(1.43)	(1)
C3-B (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	0.00	2,723	-			18.12		15.68		-	2.44	2
D-1B (45) Peak	2	0.01	-	-		200.00	20.67	200.00	18.60		-	2.07	2
D-1B (45) Off-Peak	22	0.13	978	53,786		200.00	14.84	200.00	11.35		-	3.49	3
D-2A (47,48,49,52) (NOR)	0	0.00	9,018	643		200.00	16.62	200.00	5.35		-	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-2B (50,51,53,54) Peak (NOR)	1	0.00	-	-		200.00	19.75	200.00	5.35		-	14.40	14
D-2B (50,51,53,54) Off-Peak (NOR)	3	0.02	2,881	25,069		200.00	12.22	200.00	5.35		-	6.87	7
D-2B (50,51,53,54) Peak (SUB)	242	1.47	-	-		200.00	19.75	-	5.35		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 (76,79)	4	0.02	122	-		-	17.90	-	18.68		-	(0.78)	(1)
Total Residential Colonies	4	0.02	122	-	-								
	-	-		-							-	-	-
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	-	-	-	-	-		-	-	-

DF - FORM 27 (A)

MEPCO

Actual Revenue & Subsidy Statement

F.Y. 2019-20 - (JULY-DECEMBER)

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	NEPRA Determined Tariff		GOP Notified Tariff		IDTR	Subsidy		TOTAL
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charge	
	(MkWh)	(%age)	Nos.	(kW)	(%age)	Mln. Rs	Mln. Rs	Mln. Rs.	Mln. Rs	Mln. Rs.	Mln. Rs.	Mln. Rs.	Mln. Rs.
Residential													
Consumption Up to 50 Units A-1A (01)	21	0.13	354,963	-	-	-	82	-	41	-	-	41	41
Consumption Exceeding 50 Units A-1A (	-	-	-	-	-	-	-	-	-	-	-	-	-
01-100 Units	1,779	10.86	4,399,021	-	-	-	27,485	-	10,300	-	-	17,185	17,185
101 - 200 Units	1,494	9.12	875,914	-	-	-	23,909	-	12,119	-	-	11,790	11,790
201 - 300 Units	1,309	7.99	181,788	-	-	-	22,338	-	13,348	-	-	8,990	8,990
301 - 700 Units	651	3.97	108,243	-	-	-	12,887	-	11,449	-	-	1,438	1,438
Above 700 Units	102	0.62	14,414	-	-	-	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
	-	-	-	-	-	-	-	-	-	-	-	-	-
For peak load requirement up to 5 kw	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial A-2A (04)	300	1.83	550,747	-	-	-	5,772	-	5,403	-	-	369	369
Above 100 units	-	-	-	-	-	-	-	-	-	-	-	-	-
For peak load requirement exceeding 5 kw	-	-	-	-	-	-	-	-	-	-	-	-	-
A-2B (05)	0	0.00	27	926	-	0	2	0	2	(0)	-	-	(0)
A-2C (06), Peak	48	0.29	-	-	-	-	982	-	1,040	(58)	-	-	(58)
A-2C (06), Off-Peak	201	1.23	18,632	1,187,912	-	475	2,909	475	3,143	(233)	-	-	(233)
Temporary Commercial E-111 (56)	3	0.02	1,700	-	-	-	67	-	62	-	-	6	6
Total Commercial	553	3.37	571,106	1,188,838	-	476	9,733	476	9,649	(291)	-	375	84
	-	-	-	-	-	-	-	-	-	-	-	-	-
B-1 (400 volts upto 40 kw) (07)	20	0.12	14,865	-	-	-	373	-	299	-	-	74	74
B-1 (400 volts upto 40 kw) (08)	0	0.00	17	-	-	-	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	-	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	-	406	-	-	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	-	-	-	6	-	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	2	0	2	(0)	-	-	(0)
C1-C (26), Peak	4	0.02	-	-	-	-	85	-	87	(2)	-	-	(2)
C-1C (26), Off Peak	20	0.12	235	77,989	-	31	254	31	295	(41)	-	-	(41)
C-2A (28), Supply at 11 KV	0	0.00	9	1,416	-	1	8	1	8	(1)	-	-	(1)
C2-B (29), Peak	19	0.12	-	-	-	-	350	-	416	(66)	-	-	(66)
C2-B (29), Off-Peak	94	0.58	54	287,722	-	109	1,332	109	1,397	(64)	-	-	(64)
C-3A	1	0.01	1	17,160	-	6	26	6	22	-	-	4	4
C3-B (38), Peak	3	0.02	-	-	-	-	66	-	70	(5)	-	-	(5)
C3-B (38), Off-Peak	17	0.11	2	53,389	-	19	243	19	254	(11)	-	-	(11)
Total Bulk	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
D-1B (45) Peak	2	0.01	-	-	-	-	31	-	28	-	-	3	3
D-1B (45) Off-Peak	22	0.13	978	53,786	-	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
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) Off-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	-	-	-	-	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	-	1,466	9,430	10,896
Total Agricultural	1,641	10.02	90,296	7,412,372	-	1,482	21,952	16	8,932	-	1,467	13,020	14,487
	-	-	-	-	-	-	-	-	-	-	-	-	-
G (72,73)	10	0.06	1,573	-	-	-	179	-	191	(12)	-	-	(12)
Total Public Lighting	10	0.06	1,573	-	-	-	179	-	191	(12)	-	-	(12)
	-	-	-	-	-	-	-	-	-	-	-	-	-
H (76,79)	4	0.02	122	-	-	-	66	-	69	(3)	-	-	(3)
Total Residential Colonies	4	0.02	122	-	-	-	66	-	69	(3)	-	-	(3)
	-	-	-	-	-	-	-	-	-	-	-	-	-
A-3a (66)	160	0.98	35,945	-	-	-	2,995	-	2,809	-	-	186	186
Total A-3a (66)	160	0.98	35,945	-	-	-	2,995	-	2,809	-	-	186	186
	-	-	-										
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

MEPCO

Actual Revenue & Subsidy Statement

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

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	NEPRA Determined Tariff		GOP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charge	TOTAL
	(MWh)	(%age)	Nos.	(kW)	(%age)	(Rs/kW/M)	(Rs/kWh)	(Rs/kW/M)	(Rs/kWh)		(Rs/kW/M)	(Rs/kWh)	(Rs/kWh)
Residential													
Consumption Up to 50 Units A-1A (01)	34	0.21	483,969	-			4.00		2.00		-	2.00	2
Consumption Exceeding 50 Units A-1A (01)													
01-100 Units	1,657	10.11	3,216,408	-			12.59		5.79		-	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	437,456	-			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	-	20.70		-	(2.77)	(3)
A-1B (03), Peak	9	0.05	-	-			17.90	-	20.70		-	(2.80)	(3)
A-1B (03), Off-Peak	37	0.23	14,803	-			12.21	-	14.38		-	(2.17)	(2)
Temporary Domestic E-11 (55)	0	0.00	985	-		-	17.30	-	20.84		-	(3.54)	(4)
Total Residential	4,043	24.68	6,037,460	-	-								
	-	-									-	-	-
For peak load requirement up to 5 kw	-	-									-	-	-
Commercial A-2A (04)	178	1.09	555,043	-			16.36	-	18.00		-	(1.64)	(2)
Above 100 units	-	-	-	-							-	-	-
For peak load requirement exceeding 5 kw	-	-		-							-	-	-
A-2B (05)	0	0.00	27	695		400.00	14.70	400.00	19.68		-	(4.98)	(5)
A-2C (06), Peak	31	0.19	-	-		400.00	17.53	400.00	21.60		-	(4.07)	(4)
A-2C (06), Off-Peak	139	0.84	19,204	860,339		400.00	11.60	400.00	15.63		-	(4.03)	(4)
Temporary Commercial E-111 (56)	3	0.02	1,720	-			17.20		18.39		-	(1.19)	(1)
Total Commercial	350	2.14	575,994	361,034	-								
	-	-									-	-	-
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	-			16.20		15.28		-	0.92	1
B-1 (09), Peak	17	0.11	-	-			17.30		18.84		-	(1.54)	(2)
B-1 (09), Off-Peak	117	0.71	31,578	1,809,745		-	11.60		13.28		-	(1.68)	(2)
B-2 (400 volts 41-500 kw) B-2A (10)	0	0.00	1,633	50		400.00	13.70	400.00	14.78		-	(1.08)	(1)
B-2B (12), Peak	63	0.38	-	-		400.00	17.30	400.00	18.78		-	(1.48)	(1)
B-2B (12), Off-Peak	416	2.54	8,594	2,315,008		400.00	11.40	400.00	13.07		-	(1.67)	(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)	16	0.10	-	-		360.00	17.30	360.00	18.78		-	(1.48)	(1)
B-4 (17), Off-Peak	82	0.50	7	302,634		360.00	11.20	360.00	12.88		-	(1.68)	(2)
Temporary Industrial E-2 (58)	0	0.00	31	-		-	14.05	-	16.36		-	(2.31)	(2)
Total Industrial	1,061	6.48	57,219	5,572,314	-								
C1-A (19) Supply at 400 Volts - Peak Load	0	0.00	31	47			15.70		18.68		-	(2.98)	(3)
C1-B (25) Supply at 400 Volts - Peak Load	0	0.00	125	710		400.00	15.20	400.00	18.18		-	(2.98)	(3)
C1-C (26), Peak	3	0.02	-	-		400.00	18.25	400.00	21.60		-	(3.35)	(3)
C-1C (26), Off Peak	16	0.10	235	57,163		400.00	10.04	400.00	15.00		-	(4.96)	(5)
C-2A (28), Supply at 11 KV	0	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	5,820		360.00	18.00	360.00	17.88		-	0.12	0
C3-B (38), Peak	2	0.01	-	-		360.00	17.30	360.00	21.60		-	(4.30)	(4)
C3-B (38), Off-Peak	12	0.07	2	29,730		360.00	11.20	360.00	14.70		-	(3.50)	(4)
Total Bulk	116	0.71	457	296,941	-								
	-	-									-	-	-
D-1A (41,42,43,44,46)	0	0.00	2,723	-			15.25		15.68		-	(0.43)	(0)
D-1B (45) Peak	1	0.01	-	-		200.00	17.80	200.00	19.60		-	(0.80)	(1)
D-1B (45) Off-Peak	23	0.14	967	53,921		200.00	11.97	200.00	11.35		-	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		200.00	13.75	-	5.35		200.00	8.40	208
D-2B (50,51,53,54) Peak (NOR)	0	0.00	-	-		200.00	16.88	200.00	5.35		-	11.53	12
D-2B (50,51,53,54) Off-Peak (NOR)	4	0.02	2,907	26,605		200.00	9.35	200.00	5.35		-	4.00	4
D-2B (50,51,53,54) Peak (SUB)	187	1.14	-	-		200.00	16.88	-	5.35		200.00	11.53	212
D-2B (50,51,53,54) Off-Peak (SUB)	1,059	6.46	76,725	7,804,825		200.00	9.35	-	5.35		200.00	4.00	204
Total Agricultural	1,275	7.78	92,409	7,888,223	-								
	-	-									-	-	-
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-3a (66)	123	0.75	37,266	-		-	15.85	-	17.56		-	(1.71)	(2)
Total A-3a (66)	123	0.75	37,266	-	-	-							
	-	-											
TOTAL	6,979	42.60	6,802,507	14,618,512	-	-	-	-	-		-	-	-

DF - FORM 27 (A)

MEPCO

Actual Revenue & Subsidy Statement

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

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	NEPRA Determined Tariff		GOP Notified Tariff		IDTR	Subsidy		TOTAL
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charge	
	(MkWh)	(%age)	Nos.	(kW)	(%age)	Mln. Rs	Mln. Rs.	Mln. Rs	Mln. Rs.	Mln. Rs.	Mln. Rs.	Mln. Rs.	Mln. Rs.
Residential													
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	-	9,594	-	-	11,268	11,268
101 - 200 Units	1,100	6.71	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 Units	41	0.25	4,127	-	-	-	729	-	841	(113)	-	-	(113)
A-1B (03), Peak	9	0.05	-	-	-	-	153	-	177	(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	-	-	-	54,234	-	34,480	(434)	-	20,188	19,754
	-	-	-	-	-	-	-	-	-	-	-	-	-
For peak load requirement up to 5 kw	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial A-2A (04)	178	1.09	555,043	-	-	-	2,914	-	3,206	(292)	-	-	(292)
Above 100 units	-	-	-	-	-	-	-	-	-	-	-	-	-
For peak load requirement exceeding 5 kw	-	-	-	-	-	-	-	-	-	-	-	-	-
A-2B (05)	0	0.00	27	695	-	0	1	0	1	(0)	-	-	(0)
A-2C (06), Peak	31	0.19	-	-	-	-	542	-	668	(126)	-	-	(126)
A-2C (06), Off-Peak	138	0.84	19,204	860,339	-	344	1,605	344	2,163	(558)	-	-	(558)
Temporary Commercial E-111 (56)	3	0.02	1,720	-	-	-	49	-	53	(3)	-	-	(3)
Total Commercial	350	2.14	575,994	861,034	-	344	5,112	344	6,092	(980)	-	-	(980)
	-	-	-	-	-	-	-	-	-	-	-	-	-
B-1 (400 volts upto 40 kw) (07)	13	0.08	14,855	-	-	-	209	-	197	-	-	12	12
B-1 (400 volts upto 40 kw) (08)	0	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)	-	-	(197)
B-2 (400 volts 41-500 kw) B-2A (10)	0	0.00	1,633	50	-	0	0	0	0	(0)	-	-	(0)
B-2B (12), Peak	63	0.38	-	-	-	-	1,086	-	1,178	(93)	-	-	(93)
B-2B (12), Off-Peak	416	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)	-	-	(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	-	-	-	-	277	-	300	(24)	-	-	(24)
B-4 (17), Off-Peak	82	0.50	7	302,634	-	109	922	109	1,061	(138)	-	-	(138)
Temporary Industrial E-2 (58)	0	0.00	81	-	-	-	2	-	2	(0)	-	-	(0)
Total Industrial	1,061	6.48	57,219	5,572,314	-	1,470	12,748	1,470	14,725	(1,991)	-	12	(1,979)
C1-A (19) Supply at 400 Volts - Peak Load	0	0.00	31	47	-	-	0	-	0	(0)	-	-	(0)
C1-B (25) Supply at 400 Volts - Peak Load	0	0.00	125	710	-	0	5	0	6	(1)	-	-	(1)
C1-C (26), Peak	3	0.02	-	-	-	-	59	-	69	(11)	-	-	(11)
C-1C (26), Off Peak	16	0.10	235	57,163	-	23	161	23	240	(79)	-	-	(79)
C-2A (28), Supply at 11 KV	0	0.00	9	1,198	-	0	6	0	8	(2)	-	-	(2)
C2-B (29), Peak	14	0.09	-	-	-	-	221	-	312	(91)	-	-	(91)
C2-B (29), Off-Peak	67	0.41	54	201,272	-	76	757	76	996	(239)	-	-	(239)
C-3A	0	0.00	1	6,820	-	2	6	2	6	-	-	0	0
C3-B (38), Peak	2	0.01	-	-	-	-	40	-	50	(10)	-	-	(10)
C3-B (38), Off-Peak	12	0.07	2	29,730	-	11	132	11	173	(41)	-	-	(41)
Total Bulk	116	0.71	457	296,941	-	113	1,386	113	1,860	(475)	-	0	(474)
	-	-	-	-	-	-	-	-	-	-	-	-	-
D-1A (41,42,43,44,46)	0	0.00	2,723	-	-	-	1	-	1	(0)	-	-	(0)
D-1B (45) Peak	1	0.01	-	-	-	-	20	-	21	(1)	-	-	(1)
D-1B (45) Off-Peak	23	0.14	967	53,921	-	11	281	11	266	-	-	15	15
D-2A (47,48,49,52) (NOR)	0	0.00	9,039	1,596	-	0	1	0	0	-	-	1	1
D-2A (47,48,49,52) (SUB)	0	0.00	48	1,277	-	0	3	-	1	-	0	2	2
D-2B (50,51,53,54) Peak (NOR)	0	0.00	-	-	-	-	7	-	2	-	-	5	5
D-2B (50,51,53,54) Off-Peak (NOR)	4	0.02	2,907	26,605	-	5	34	5	20	-	-	15	15
D-2B (50,51,53,54) Peak (SUB)	187	1.14	-	-	-	-	3,164	-	1,003	-	-	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	6,979	(1)	1,561	6,433	7,993
	-	-	-	-	-	-	-	-	-	-	-	-	-
G (72,73)	8	0.05	1,580	-	-	-	114	-	146	(32)	-	-	(32)
Total Public Lighting	8	0.05	1,580	-	-	-	114	-	146	(32)	-	-	(32)
	-	-	-	-	-	-	-	-	-	-	-	-	-
H (76,79)	3	0.02	122	-	-	-	43	-	54	(11)	-	-	(11)
Total Residential Colonies	3	0.02	122	-	-	-	43	-	54	(11)	-	-	(11)
	-	-	-	-	-	-	-	-	-	-	-	-	-
A-3a (66)	123	0.75	37,266	-	-	-	1,946	-	2,156	(210)	-	-	(210)
Total A-3a (66)	123	0.75	37,266	-	-	-	1,946	-	2,156	(210)	-	-	(210)
	-	-	-										
TOTAL	6,979	42.60	6,802,507	14,618,512	-	3,505	88,993	1,944	66,492	(4,132)	1,561	26,632	24,062

FORM - 28

MEPCO

This Format Relates to Power Supply Business

Revenue & Subsidy Statement - Proposed

F.Y. 2020-21 - (Full Year)

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue as per New Proposed Tariff		Revenue as per GoP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	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	62	0.37	531,314		-	-	5.01	-	4.96	-	-	0.05	
For peak load requirement up to 5 kW	-					-	-	-	-	-	-	-	
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	-	-	5.28	
301-700Units	2,491	14.88	100,981			-	24.97	-	24.60	-	-	0.37	
Above 700 Units	519	3.10	4,811			-	26.20	-	27.95	(1.75)	-	-	
For peak load requirement exceeding 5 kW	-		-			-	-	-	-	-	-	-	
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)	-	-	
Temporary	1	0.00	1,042			-	25.41	-	27.93	(2.52)	-	-	
Total Residential	9,685	57.85	6,466,363	-	-					-	-	-	
Commercial - A2	-		-			-	-	-	-	-	-	-	
Commercial - A-2A	478	2.86	586,556			-	24.30	-	24.86	(0.56)	-	-	
Commercial (<100)	-		-			440	-	440	-	-	-	-	
Commercial (<20 KW)													
For peak load requirement exceeding 5 kW	-	-				440	-	440	-	-	-	-	
Regular A-2B	0	0.00	27	1,620		440	22.00	440	26.08	(4.08)	-	-	
A-2C (TOU) - Peak (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)	-	-	
Temporary Commercial E-111 (56)	6	0.04	1,950			-	25.36	-	25.47	(0.11)	-	-	
Total Commercial	903	5.40	609,724	2,049,871						-	-	-	
Industrial	-		-		-	-	-	-	-	-	-	-	
B1 (400 Volts Upto 40kw) (07)	33	0.20	15,159			-	24.07	-	22.10	-	-	1.97	
B1 (400 Volts Upto 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		-	18.30	-	18.93	(0.63)	-	-	
B2 (400 Volts 41-500 kw) B2-A (10)	0	0.00	1,578	93		440	20.71	440	20.92	(0.21)	-	-	
B2 - 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)	143	0.85	-			420	25.81	420	25.95	(0.14)	-	-	
B3 - TOU (Off-peak)	650	3.88	372	2,834,433		420	16.45	420	18.26	(1.81)	-	-	
B4 - TOU (Peak)	36	0.21	-			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)	-	-	
Temporary E-2 (58)	3	0.02	85	-		-	21.37	-	22.63	(1.26)	-	-	
Total Industrial	2,566	15.33	60,665	13,074,740						-	-	-	
Bulk	-		-		-	-	-	-	-	-	-	-	
C1(A) Supply at 400 Volts - up to 5 kW	0	0.00	32	66		-	23.48	-	25.38	(1.90)	-	-	
C1(B) Supply at 400 Volts - above 5 kW	0	0.00	128	1,176		440	22.63	440	24.71	(2.08)	-	-	
C-1C Time of Use (TOU) - Peak	11	0.07	-			440	26.45	440	28.90	(2.45)	-	-	
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		420	20.06	420	23.99	(3.93)	-	-	
C-2B Time of Use (TOU) - Peak	51	0.31	-			420	22.73	420	28.15	(5.42)	-	-	
C-2B Time of Use (TOU) - Off Peak	149	0.89	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)	-	-	
C3-B Time of Use (TOU) - Peak	6	0.03	-			400	25.26	400	28.66	(3.40)	-	-	
C3-B Time of Use (TOU) - Off-Peak	30	0.18	2	83,120		400	17.61	400	20.21	(2.60)	-	-	
Total Single Point Supply	282	1.69	471	735,104	-					-	-	-	
Agricultural Tube-wells - Tariff D	-		-			-	-	-	-	-	-	-	
D-1A (41,42,43,44,46)	0	0.00	2,757			-	22.91	-	22.26	-	-	0.65	
D-1B (45) Peak	10	0.06	-			200	26.11	200	25.83	-	-	0.28	
D-1B (45) Off-Peak	39	0.23	951	107,707		200	18.80	200	17.10	-	-	1.70	
D-2A (47,48,49,52) (NOR)	0	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)	0	0.00	-			200	24.96	200	12.35	-	-	12.61	
D-2B (50,51,53,54) Off-Peak (NOR)	0	0.00	3,287	51,674		200	15.52	200	10.44	-	-	5.08	
D-2B (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	-		-	22.10	-	25.10	(3.00)	-	-	
Residential Colonies H	7	0.04	125	-	-	-	22.64	-	25.21	(2.57)	-	-	
Special Contracts - Tariff K (AJK)	-	-	-	-		-	-	-	-	-	-	-	
Time of Use (TOU) - Peak	-	-	-	-		-	-	-	-	-	-	-	
Time of Use (TOU) - Off-Peak	-	-	-	-	-	-	-	-	-	-	-	-	
A-3a (66)	289	1.73	41,433			-	22.22	-	24.00	(1.78)	-	-	
		-	-						-	-			
Grand Total	16,741	100.00	7,281,004	15,359,715	-	-	-						

FORM - 28

MEPCO

This Format Relates to Power Supply Business

Revenue & Subsidy Statement - Proposed

F.Y. 2020-21 - (Full Year)

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue as per New Proposed Tariff		Revenue as per GoP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	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	62	0.37	531,314		-	-	5.02	-	4.97	-	-	0.05	
For peak load requirement up to 5 kW	-					-	-	-	-	-	-	-	
01-100 Units	1,571	9.38	3,672,561			-	19.85	-	11.76	-	-	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			-	21.86	-	16.58	-	-	5.28	
301-700Units	2,491	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	-	27.94	(1.80)	-	-	
Time of Use (TOU) - Off-Peak	96	0.57	17,204			-	19.01	-	20.18	(1.17)	-	-	
Temporary	1	0.00	1,042			-	25.42	-	27.94	(2.52)	-	-	
Total Residential	9,685	57.85	6,466,363	-	-					-	-	-	
Commercial - A2	-					-	-	-	-	-	-	-	
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 kW	-	-				440	-	440	-	-	-	-	
Regular A-2B	0	0.00	27	1,620		440	22.01	440	26.09	(4.08)	-	-	
A-2C (TOU) - Peak (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	18.12	440	21.25	(3.13)	-	-	
Temporary Commercial E-111 (56)	6	0.04	1,950			-	25.37	-	25.48	(0.11)	-	-	
Total Commercial	903	5.40	609,724	2,049,871						-	-	-	
Industrial	-	-	-			-	-	-	-	-	-	-	
B1 (400 Volts Upto 40kw) (07)	33	0.20	15,159			-	24.07	-	22.10	-	-	1.97	
B1 (400 Volts Upto 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		440	20.71	440	20.92	(0.21)	-	-	
B2 - B TOU (Peak)	199	1.19	-	-		440	25.23	440	25.84	(0.61)	-	-	
B2 - B TOU (Off-peak)	968	5.78	9,187	5,546,340		440	17.83	440	18.63	(0.80)	-	-	
B3 - TOU (Peak)	143	0.85	-			420	25.82	420	25.96	(0.14)	-	-	
B3 - TOU (Off-peak)	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	-	-	-		-	-	-	-	-	-	-	-	
C1(A) Supply at 400 Volts - up to 5 kW	0	0.00	32	56		-	23.49	-	25.39	(1.90)	-	-	
C1(B) Supply at 400 Volts - above 5 kW	0	0.00	128	1,178		440	22.63	440	24.71	(2.08)	-	-	
C-1C Time of Use (TOU) - Peak	11	0.07	-			440	26.46	440	28.91	(2.45)	-	-	
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		420	20.06	420	23.99	(3.93)	-	-	
C-2B Time of Use (TOU) - Peak	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-A Supply above 11 kV	2	0.01	1	23,980		400	20.00	400	23.88	(3.88)	-	-	
C3-B Time of Use (TOU) - Peak	6	0.03	-			400	25.27	400	28.67	(3.40)	-	-	
C3-B Time of Use (TOU) - Off-Peak	30	0.18	2	83,120		400	17.62	400	20.22	(2.60)	-	-	
Total Single Point Suppiy	282	1.69	471	735,104	-					-	-	-	
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) (NOR)	0	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)	0	0.00	-			200	24.96	200	12.35	-	-	12.61	
D-2B (50,51,53,54) Off-Peak (NOR)	0	0.00	3,287	51,674		200	15.52	200	10.44	-	-	5.08	
D-2B (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	-	25.11	(3.00)	-	-	
Residential Colonies H	7	0.04	125	-	-	-	22.65	-	25.22	(2.57)	-	-	
Special Contracts - Tariff K (AJK)	-	-	-			-	-	-	-	-	-	-	
Time of Use (TOU) - Peak		-	-	-		-	-	-	-	-	-	-	
Time of Use (TOU) - Off-Peak		-	-	-	-	-	-	-	-	-	-	-	
A-3a (66)	289	1.73	41,433			-	22.23	-	24.01	(1.78)	-	-	
		-		-						-			
Grand Total	16,741	100.00	7,281,004	15,859,715	-	-	-						

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

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue as per New Proposed Tariff		Revenue as per GoP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	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	62	0.37	531,314	-	-	-	313	-	310	-	-	3	3
For peak load requirement up to 5 kW	-	-	-	-	-	-	-	-	-	-	-	-	-
01-100 Units	1,571	9.38	3,672,581	-	-	-	31,182	-	13,472	-	-	12,709	12,709
101-200 Units	2,692	16.08	1,779,878	-	-	-	55,212	-	38,255	-	-	16,957	16,957
201-300 Units	2,230	13.32	358,572	-	-	-	48,743	-	36,967	-	-	11,776	11,776
301-700Units	2,491	14.88	100,981	-	-	-	62,206	-	61,284	-	-	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	96	0.57	17,204	-	-	-	1,825	-	1,938	(112)	-	-	(112)
Temporary	1	0.00	1,042	-	-	-	13	-	15	(1)	-	-	(1)
Total Residential	9,685	57.85	6,466,363	-	-	-	213,710	-	172,408	(1,064)	-	42,367	41,302
Commercial - A2	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial - A-2A													
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	-	-	-	-	-	-	-	-	-	-	-	-	-
Regular A-2B	0	0.00	27	1,620	-	1	4	1	5	(1)	-	-	(1)
A-2C (TOU) - Peak (A-2)	98	0.58	-	-	-	-	2,499	-	2,809	(310)	-	-	(310)
A-2C (TOU) - Off-Peak	321	1.92	21,191	2,048,251	-	901	5,811	901	6,815	(1,004)	-	-	(1,004)
Temporary Commercial E-111 (56)	6	0.04	1,950	-	-	-	158	-	158	(1)	-	-	(1)
Total Commercial	903	5.40	609,724	2,049,871	-	902	20,101	902	21,684	(1,583)	-	-	(1,583)
Industrial	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	1,736	-	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	1	(0)	-	-	(0)
B2 - B TOU (Peak)	199	1.19	-	-	-	-	5,030	-	5,152	(122)	-	-	(122)
B2 - B TOU (Off-peak)	968	5.78	9,187	5,546,340	-	2,440	17,256	2,440	18,030	(774)	-	-	(774)
B3 - TOU (Peak)	143	0.85	-	-	-	-	3,682	-	3,702	(20)	-	-	(20)
B3 - TOU (Off-peak)	650	3.88	372	2,834,438	-	1,190	10,691	1,190	11,867	(1,176)	-	-	(1,176)
B4 - TOU (Peak)	36	0.21	-	-	-	-	907	-	929	(22)	-	-	(22)
B4 - TOU (Off-peak)	199	1.19	8	701,266	-	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)
Bulk	-	-	-	-	-	-	-	-	-	-	-	-	-
C1(A) Supply at 400 Volts - up to 5 kW	0	0.00	32	66	-	-	0	-	0	(0)	-	-	(0)
C1(B) Supply at 400 Volts - above 5 kW	0	0.00	128	1,178	-	1	10	1	11	(1)	-	-	(1)
C-1C Time of Use (TOU) - Peak	11	0.07	-	-	-	-	295	-	323	(27)	-	-	(27)
C-1C Time of Use (TOU) - Off Peak	33	0.20	241	135,152	-	59	528	59	660	(133)	-	-	(133)
C2A Supply at 11 kV	1	0.01	9	2,614	-	1	18	1	22	(4)	-	-	(4)
C-2B Time of Use (TOU) - Peak	51	0.31	-	-	-	-	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 (TOU) - Peak	6	0.03	-	-	-	-	143	-	162	(19)	-	-	(19)
C3-B Time of Use (TOU) - Off-Peak	30	0.16	2	83,120	-	33	523	33	600	(77)	-	-	(77)
Total Single Point Supply	282	1.69	471	735,104	-	309	5,347	309	6,287	(940)	-	-	(940)
Agricuitural Tube-wells - Tariff D	-	-	-	-	-	-	-	-	-	-	-	-	-
D-1A (41,42,43,44,46)	0	0.00	2,757	-	-	-	2	-	2	-	-	0	0
D-1B (45) Peak	10	0.06	-	-	-	-	256	-	253	-	-	3	3
D-1B (45) Off-Peak	39	0.23	951	107,707	-	22	738	22	671	-	-	67	67
D-2A (47,48,49,52) (NOR)	0	0.00	9,378	2,239	-	0	0	0	0	-	-	0	0
D-2A (47,48,49,52) (SUB)	0	0.00	3	2,743	-	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	-	3,027	38,893	-	26,165	-	3,027	12,728	15,755
	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Agricultural	2,990	17.86	100,540	-	-	3,060	50,741	32	32,463	-	3,028	18,278	21,306
Public Lighting G	19	0.11	1,683	-	-	-	409	-	464	(56)	-	-	(56)
Residential Colonies H	7	0.04	125	-	-	-	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	-	-		6,426	-	6,943	(515)	-	-	(515)
	-	-	-	-	-								
Grand Total	16,741	100	7,281,004	15,859,715	-	8,182	345,447	5,155	291,393	(6,655)	3,028	60,710	57,083
	-	-	-	-	-								

FORM - 28

MEPCO

This Format Relates to Power Supply Business

Revenue & Subsidy Statement - Proposed

F.Y. 2021-22 - (Full Year)

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue as per New Proposed Tariff		Revenue as per GoP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	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	64.35	0.36	563,193		-	-	4.62	-	4.57	-	-	0.05	
For peak load requirement up to 5 kW	-	-	-			-	-	-	-	-	-	-	
01-100 Units	1,649.53	9.35	3,892,914			-	18.27	-	10.18	-	-	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	-	-	5.28	
301-700Units	2,627.51	14.89	107,040			-	22.99	-	22.62	-	-	0.37	
Above 700 Units	544.45	3.09	5,100			-	24.12	-	25.87	(1.75)	-	-	
For peak load requirement exceeding 5 kW	-	-	-			-	-	-	-	-	-	-	
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	0.52	0.00	1,104			-	23.40	-	25.92	(2.52)	-	-	
Total Residential	10,197	57.79	6,854,344		-					-	-	-	
Commercial - A2	-	-	-			-	-	-	-	-	-	-	
Commercial - A-2A	513.01	2.91	621,750			-	22.38	-	22.94	(0.56)	-	-	
Commercial (<100)	-	-	-			450	-	440	-	-	10.00	-	
Commercial (<20 KW)													
For peak load requirement exceeding 5 kW	-	-	-			450	-	440	-	-	10.00	-	
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-2C (TOU) - Off-Peak	344.87	1.95	22,463	2,068,734		450	16.68	440	19.81	(3.13)	10.00	-	
Temporary Commercial E-111 (56)	6.75	0.04	2,067	-		-	23.35	-	23.46	(0.11)	-	-	
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 Upto 40kw) (08)	-	-	20	-		-	22.16	-	20.19	-	-	1.97	
B1 (b) (Peak)	72.31	0.41	-	-		-	23.40	-	23.92	(0.49)	-	-	
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	-	
B2 - B TOU (Peak)	211.36	1.20	-	-		450	23.22	440	23.83	(0.61)	10.00	-	
B2 - B TOU (Off-peak)	1,025.87	5.81	9,738	5,601,803		450	16.41	440	17.21	(0.80)	10.00	-	
B3 - TOU (Peak)	151.19	0.86	-	-		430	23.77	420	23.91	(0.14)	10.00	-	
B3 - TOU (Off-peak)	668.86	3.90	394	2,852,782		430	15.14	420	16.95	(1.81)	10.00	-	
B4 - TOU (Peak)	38.65	0.22	-	-		410	23.22	400	23.83	(0.61)	10.00	-	
B4 - TOU (Off-peak)	210.68	1.19	9	708,279		410	16.18	400	16.99	(0.81)	10.00	-	
Temporary E-2 (58)	3.20	0.02	90	-		-	19.68	-	20.94	(1.26)	-	-	
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	67		-	21.62	-	23.52	(1.90)	-	-	
C1(B) Supply at 400 Volts - above 5 kW	0.49	0.00	136	1,190		450	20.83	440	22.91	(2.08)	10.00	-	
C-1C Time of Use (TOU) - Peak	11.72	0.07	-	-		450	24.35	440	26.80	(2.45)	10.00	-	
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-2B Time of Use (TOU) - Peak	53.99	0.31	-	-		430	20.93	420	26.35	(5.42)	10.00	-	
C-2B Time of Use (TOU) - Off Peak	156.07	0.88	60	493,884		430	16.27	420	18.92	(2.65)	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	-	
C3-B Time of Use (TOU) - Off-Peak	31.17	0.18	2	83,951		410	16.22	400	18.82	(2.60)	10.00	-	
Total Single Point Supply	296	1.68	499	742,455	-					-	-	-	
Agricultural Tube-wells - Tariff D	-	-	-	-		-	-	-	-	-	-	-	
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	0.06	-	-		210	24.04	200	23.76	-	10.00	0.28	
D-1B (45) Off-Peak	41.20	0.23	1,008	108,784		210	17.31	200	15.61	-	10.00	1.70	
D-2A (47,48,49,52) (NOR)	0.07	0.00	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-2B (50,51,53,54) Off-Peak (NOR)	0.32	0.00	3,484	52,191		210	14.29	200	9.21	-	10.00	5.08	
D-2B (50,51,53,54) Peak (SUB)	454.86	2.58	-	-		210	22.98	-	10.37	-	210.00	12.61	
D-2B (50,51,53,54) Off-Peak (SUB)	2,624.46	14.87	89,213	15,287,593		210	14.29	-	9.21	-	210.00	5.08	
	-	-	-		-	-	-	-	-	-	-	-	
Total Agricultural	3,132	17.75	106,571	15,453,602						-	-	-	
Public Lighting G	19.24	0.11	1,784			-	20.35	-	23.35	(3.00)	-	-	
Residential Colonies H	7.07	0.04	133		-	-	20.85	-	23.42	(2.57)	-	-	
Special Contracts - Tariff K (AJK)	-	-	-			-	-	-	-	-	-	-	
Time of Use (TOU) - Peak		-	-			-	-	-	-	-	-	-	
Time of Use (TOU) - Off-Peak		-	-		-	-	-	-	-	-	-	-	
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	-	-	-						

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

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue as per New Proposed Tariff		Revenue as per GoP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	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	64	0.36	563,193	-	-	-	297	-	294	-	-	3	3
For peak load requirement up to 5 kW	-	-	-	-	-	-	-	-	-	-	-	-	-
01-100 Units	1,650	9.35	3,862,914	-	-	-	30,139	-	16,794	-	-	13,345	13,345
101-200 Units	2,832	16.05	1,886,671	-	-	-	53,468	-	35,629	-	-	17,839	17,839
201-300 Units	2,353	13.34	330,086	-	-	-	47,339	-	34,916	-	-	12,424	12,424
301-700Units	2,628	14.89	107,040	-	-	-	60,414	-	59,442	-	-	972	972
Above 700 Units	544	3.09	5,100	-	-	-	13,134	-	14,087	(953)	-	-	(953)
For peak load requirement exceeding 5 kW	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial - A-2A													
For peak load requirement up to 5 kW	513	2.91	621,750	-	-	-	11,481	-	11,769	(287)	-	-	(287)
Commercial (<100)	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial (<20 KW)													
For peak load requirement exceeding 5 kW	-	-	-	-	-	-	-	-	-	-	-	-	-
Regular A-2B	0	0.00	28	1,636	-	1	4	1	5	(1)	0	-	(1)
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	-	-	70	70
B1 (400 Volts Upto 40kw) (08)	-	-	20	-	-	-	-	-	-	-	-	-	-
B1 (b) (Peak)	72	0.41	-	-	-	-	1,694	-	1,730	(35)	-	-	(35)
B1 (b) (Off-Peak)	283	1.60	36,207	4,032,529	-	-	4,763	-	4,941	(178)	-	-	(178)
B2 (400 Volts 41-500 kw) B2-A (10)	0	0.00	1,778	94	-	0	1	0	1	(0)	0	-	(0)
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	0.85	-	-	-	-	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	708,279	-	290	3,409	283	3,580	(171)	7	-	(164)
Temporary E-2 (56)	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	-	-	-	-	-	-	-	-	-	-	-	-	-
C1(A) Supply at 400 Volts - up to 5 kW	0	0.00	34	67	-	-	0	-	0	(0)	-	-	(0)
C1(B) Supply at 400 Volts - above 5 kW	0	0.00	136	1,190	-	1	10	1	11	(1)	0	-	(1)
C-1C Time of Use (TOU) - Peak	12	0.07	-	-	-	-	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	0.01	1	24,220	-	10	31	10	38	(7)	0	-	(6)
C3-B Time of Use (TOU) - Peak	6	0.03	-	-	-	-	138	-	158	(20)	-	-	(20)
C3-B Time of Use (TOU) - Off-Peak	31	0.18	2	83,951	-	34	505	34	586	(81)	1	-	(80)
Total Single Point Supply	296	1.68	499	742,455	-	320	5,168	312	6,155	(987)	7	-	(979)
Agricultural Tube-wells - Tariff D	-	-	-	-	-	-	-	-	-	-	-	-	-
D-1A (41,42,43,44,46)	0	0.00	2,923	-	-	-	2	-	2	-	-	0	0
D-1B (45) Peak	10	0.06	-	-	-	-	248	-	245	-	-	3	3
D-1B (45) Off-Peak	41	0.23	1,008	108,764	-	23	713	22	643	-	1	70	71
D-2A (47,48,49,52) (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	-	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	-	-	-	-	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	3,132	17.75	106,571	15,453,602	-	3,245	48,938	33	29,789	-	3,213	19,149	22,361
Public Lighting G	19	0.11	1,784	-	-	-	392	-	449	(58)	-	-	(58)
Residential Colonies H	7	0.04	133	-	-	-	147	-	166	(18)	-	-	(18)
Special Contracts - Tariff K (AJK)	-	-	-	-	-	-	-	-	-	-	-	-	-
Time of Use (TOU) - Peak	-	-	-	-	-	-	-	-	-	-	-	-	-
Time of Use (TOU) - Off-Peak	-	-	-	-	-	-	-	-	-	-	-	-	-
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	278,505	(7,049)	3,332	63,801	60,084

FORM - 28

MEPCO

This Format Relates to Power Supply Business

Revenue & Subsidy Statement - Proposed

F.Y. 2022-23 - (Full Year)

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue as per New Proposed Tariff		Revenue as per GoP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	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	65.64	0.36	601,546			-	5.11	-	5.06	-	-	0.05	
For peak load requirement up to 5 kW	-	-	-			-	-	-	-	-	-	-	
01-100 Units	1,682.52	9.33	4,158,021			-	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	
301-700Units	2,693.20	14.94	114,329			-	25.45	-	25.08	-	-	0.37	
Above 700 Units	555.34	3.08	5,447			-	26.70	-	28.45	(1.75)	-	-	
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	103.86	0.58	19,478			-	19.37	-	20.54	(1.17)	-	-	
Temporary	0.52	0.00	1,179			-	25.90	-	28.42	(2.52)	-	-	
Total Residential	10,433	57.87	7,321,123	-	-					-	-	-	
Commercial - A2	-	-	-			-	-	-	-	-	-	-	
Commercial - A-2A	523.27	2.90	664,091			-	24.77	-	25.33	(0.56)	-	-	
Commercial (<100)	-	-	-			450	-	440	-	-	10.00	-	
Commercial (<20 KW)													
For peak load requirement exceeding 5 kW	-	-	-			450	-	440	-	-	10.00	-	
Regular A-2B	0.19	0.00	30	1,653		450	22.42	440	26.50	(4.08)	10.00	-	
A-2C (TOU) - Peak (A-2)	107.26	0.59	-	-		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	2,208	-		-	25.85	-	25.96	(0.11)	-	-	
Total Commercial	989	5.49	690,322	2,091,073						-	-	-	
Industrial	-	-	-	-	-	-	-	-	-	-	-	-	
B1 (400 Volts Upto 40kw) (07)	36.21	0.20	17,162	-		-	24.53	-	22.56	-	-	1.97	
B1 (400 Volts Upto 40kw) (08)	-	-	21	-		-	24.53	-	22.56	-	-	1.97	
B1 (b) (Peak)	73.76	0.41	-	-		-	25.94	-	26.43	(0.49)	-	-	
B1 (b) (Off-Peak)	288.27	1.60	38,673	4,072,854		-	18.65	-	19.28	(0.63)	-	-	
B2 (400 Volts 41-500 kw) B2-A (10)	0.04	0.00	1,899	95		450	21.11	440	21.32	(0.21)	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 (Peak)	154.21	0.86	-	-		430	26.31	420	26.45	(0.14)	10.00	-	
B3 - TOU (Off-peak)	702.64	3.90	421	2,891,410		430	16.76	420	18.57	(1.81)	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	-	
Temporary E-2 (58)	3.31	0.02	96	-		-	21.79	-	23.05	(1.26)	-	-	
Total Industrial	2,775	15.39	68,683	13,337,542						-	-	-	
Bulk	-	-	-	-	-	-	-	-	-	-	-	-	
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00	36	67		-	23.93	-	25.83	(1.90)	-	-	
C1(B) Supply at 400 Volts - above 5 kW	0.50	0.00	145	1,202		450	23.06	440	25.14	(2.08)	10.00	-	
C-1C Time of Use (TOU) - Peak	11.95	0.07	-	-		450	26.96	440	29.41	(2.45)	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) - Peak	55.07	0.31	-	-		430	23.17	420	28.59	(5.42)	10.00	-	
C-2B Time of Use (TOU) - Off Peak	159.19	0.88	64	498,823		430	18.01	420	20.66	(2.65)	10.00	-	
C3-A Supply above 11 kV	1.74	0.01	1	24,462		410	20.38	400	24.26	(3.88)	10.00	-	
C3-B Time of Use (TOU) - Peak	6.05	0.03	-	6		410	25.75	400	29.15	(3.40)	10.00	-	
C3-B Time of Use (TOU) - Off-Peak	31.79	0.18	2	84,791		410	17.95	400	20.55	(2.60)	10.00	-	
Total Single Point Supply	302	1.68	532	749,886	-					-	-	-	
Agricultural Tube-wells - Tariff D	-	-	-	-		-	-	-	-	-	-	-	
D-1A (41,42,43,44,46)	-	-	3,122	-		-	23.36	-	22.71	-	-	0.65	
D-1B (45) Peak	10.51	0.06	-	-		210	26.61	200	26.33	-	10.00	0.28	
D-1B (45) Off-Peak	42.02	0.23	1,077	109,872		210	19.17	200	17.47	-	10.00	1.70	
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	-	-		210	25.44	200	12.83	-	10.00	12.61	
D-2B (50,51,53,54) Off-Peak (NOR)	0.33	0.00	3,721	52,713		210	15.82	200	10.74	-	10.00	5.08	
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)	-	-	
Special Contracts - Tariff K (AJK)	-	-	-			-	-	-	-	-	-	-	
Time of Use (TOU) - Peak	-	-	-			-	-	-	-	-	-	-	
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	-	-	-						

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

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue as per New Proposed Tariff		Revenue as per GoP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	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	-	-	-	335	-	332	-	-	3	3
For peak load requirement up to 5 kW	-	-	-	-	-	-	-	-	-	-	-	-	-
01-100 Units	1,683	9.33	4,158,021	-	-	-	34,032	-	20,421	-	-	13,612	13,612
101-200 Units	2,894	16.05	2,015,153	-	-	-	60,487	-	42,256	-	-	18,231	18,231
201-300 Units	2,412	13.38	405,970	-	-	-	53,710	-	40,976	-	-	12,734	12,734
301-700Units	2,693	14.94	114,329	-	-	-	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) - Peak	26	0.14	-	-	-	-	692	-	738	(47)	-	-	(47)
Time of Use (TOU) - Off-Peak	104	0.58	19,478	-	-	-	2,012	-	2,133	(122)	-	-	(122)
Temporary	1	0.00	1,179	-	-	-	13	-	15	(1)	-	-	(1)
Total Residential	10,433	57.87	7,321,123	-	-	-	234,659	-	190,224	(1,141)	-	45,577	44,435
Commercial - A2	-	-	-	-	-	-	-	-	-	-	-	-	-
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)													
For peak load requirement exceeding 5 kW	-	-	-	-	-	-	-	-	-	-	-	-	-
Regular A-2B	0	0.00	30	1,653	-	1	4	1	5	(1)	0	-	(1)
A-2C (TOU) - Peak (A-2)	107	0.59	-	-	-	-	2,793	-	3,133	(340)	-	-	(340)
A-2C (TOU) - Off-Peak	352	1.95	23,993	2,089,421	-	940	6,495	919	7,596	(1,101)	21	-	(1,080)
Temporary Commercial E-111 (56)	7	0.04	2,208	-	-	-	178	-	179	(1)	-	-	(1)
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		-	-	888	-	817	-	-	71	71
B1 (400 Volts Upto 40kw) (C8)	-	-	21	-	-	-	-	-	-	-	-	-	-
B1 (b) (Peak)	74	0.41	-	-	-	-	1,913	-	1,949	(36)	-	-	(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)	0	0.00	1,899	95	-	0	1	0	1	(0)	0	-	(0)
B2 - B TOU (Peak)	216	1.20	-	-	-	-	5,542	-	5,674	(132)	-	-	(132)
B2 - B TOU (Off-peak)	1,046	5.80	10,401	5,657,321	-	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	15.39	68,683	13,337,542	-	4,083	53,506	3,990	56,116	(2,682)	93	71	(2,516)
Bulk	-	-	-	-	-	-	-	-	-	-	-	-	-
C1(A) Supply at 400 Volts - up to 5 kW	0	0.00	36	67	-	-	0	-	0	(0)	-	-	(0)
C1(B) Supply at 400 Volts - above 5 kW	1	0.00	145	1,202	-	1	12	1	13	(1)	0	-	(1)
C-1C Time of Use (TOU) - Peak	12	0.07	-	-	-	-	322	-	351	(29)	-	-	(29)
C-1C Time of Use (TOU) - Off Peak	35	0.19	273	137,969	-	62	576	61	718	(142)	1	-	(141)
C2A Supply at 11 kV	1	0.01	11	2,667	-	1	20	1	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) - Off Peak	159	0.86	64	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	10	42	(7)	0	-	(7)
C3-B Time of Use (TOU) - Peak	6	0.03	-	6	-	0	156	0	176	(21)	0	-	(21)
C3-B Time of Use (TOU) - Off-Peak	32	0.18	2	84,791	-	35	571	34	653	(83)	1	-	(82)
Total Single Point Supply	302	1.68	532	749,986	-	323	5,835	316	6,842	(1,007)	7	-	(999)
Agricultural Tube-wells - Tariff D	-	-	-	-	-	-	-	-	-	-	-	-	-
D-1A (41,42,43,44,46)	-	-	3,122	-	-	-	-	-	-	-	-	-	-
D-1B (45) Peak	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	19,617	2,284	-	0	1	0	1	-	0	1	1
D-2A (47,48,49,52) (SUB)	1	0.00	3	2,798	-	1	11	-	7	-	1	4	5
D-2B (50,51,53,54) Peak (NOR)	0	0.00	-	-	-	-	3	-	1	-	-	1	1
D-2B (50,51,53,54) Off-Peak (NOR)	0	0.00	3,721	52,713	-	11	5	11	4	-	1	2	2
D-2B (50,51,53,54) Peak (SUB)	464	2.57	-	-	-	-	11,803	-	5,952	-	-	5,850	5,850
D-2B (50,51,53,54) Off-Peak (SUB)	2,677	14.85	95,268	15,440,471	-	3,242	42,344	-	28,745	-	3,242	13,599	16,841
	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Agricultural	3,195	17.72	113,828	15,608,136	-	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)	-	-	-	-	-	-	-	-	-	-	-	-	-
Time of Use (TOU) - Peak	-	-	-	-	-	-	-	-	-	-	-	-	-
Time of Use (TOU) - Off-Peak	-	-	-	-	-	-	-	-	-	-	-	-	-
A-3a (66)	308	1.71	46,916	-	-	-	6,982	-	7,530	(549)	-	-	(549)
	-	-	-	-									
Grand Total	18,028	100	8,243,451	31,786,639	-	8,624	379,273	5,259	321,284	(7,191)	3,366	65,179	61,354

FORM - 28

MEPCO

Revenue & Subsidy Statement - Proposed

F.Y. 2023-24 - (Full Year)

This Format Relates to Power Supply Business

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue as per New Proposed Tariff		Revenue as per GoP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	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	66.95	0.36	837,639		-	-	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	-	-	8.09	
101-200 Units	2,951.70	16.03	2,136,062			-	21.62	-	15.32	-	-	6.30	
201-300 Units	2,460.02	13.36	430,328			-	23.04	-	17.76	-	-	5.28	
301-700Units	2,760.53	14.99	121,189			-	26.33	-	25.96	-	-	0.37	
Above 700 Units	566.44	3.08	5,774			-	27.62	-	29.37	(1.75)	-	-	
For peak load requirement exceeding 5 kW	-	-	-			-	-	-	-	-	-	-	
Time of Use (TOU) - Peak	26.74	0.15	-			-	27.56	-	29.36	(1.80)	-	-	
Time of Use (TOU) - Off-Peak	106.97	0.58	20,647			-	20.04	-	21.21	(1.17)	-	-	
Temporary	0.53	0.00	1,250			-	26.79	-	29.31	(2.52)	-	-	
Total Residential	10,656	57.88	7,760,391	-	-					-	-	-	
Commercial - A2	-	-	-			-	-	-	-	-	-	-	
Commercial - A-2A	533.74	2.90	703,936			-	25.62	-	26.18	(0.56)	-	-	
Commercial (<100)		-	-			460	-	440	-	-	20.00	-	
Commercial (<20 KW)													
For peak load requirement exceeding 5 kW		-	-			460	-	440	-	-	20.00	-	
Regular A-2B	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	358.76	1.95	25,433	2,110,315		460	19.10	440	22.23	(3.13)	20.00	-	
Temporary Commercial E-111 (56)	7.02	0.04	2,340	-		-	26.74	-	26.85	(0.11)	-	-	
Total Commercial	1,009	5.48	731,741	2,111,984						-	-	-	
Industrial	-	-	-	-	-	-	-	-	-	-	-	-	
B1 (400 Volts Upto 40kw) (07)	36.93	0.20	18,192	-		-	25.37	-	23.40	-	-	1.97	
B1 (400 Volts Upto 40kw) (08)		-	22	-		-	25.37	-	23.40	-	-	1.97	
B1 (b) (Peak)	75.23	0.41	-	-		-	26.83	-	27.32	(0.49)	-	-	
B1 (b) (Off-Peak)	294.05	1.60	40,993	4,113,583		-	19.30	-	19.93	(0.63)	-	-	
B2 (400 Volts 41-500 kw) B2-A (10)	0.04	0.00	2,013	96		460	21.83	440	22.04	(0.21)	20.00	-	
B2 - B TOU (Peak)	220.98	1.20	-	-		460	26.59	440	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	19.59	(0.80)	20.00	-	
B3 - TOU (Peak)	157.30	0.85	-	-		440	27.21	420	27.35	(0.14)	20.00	-	
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	-	
B4 - TOU (Off-peak)	218.07	1.18	11	722,515		420	18.53	400	19.34	(0.81)	20.00	-	
Temporary E-2 (58)	3.41	0.02	102	-		-	22.53	-	23.79	(1.26)	-	-	
Total Industrial	2,837	15.41	72,804	13,470,918						-	-	-	
Bulk	-	-	-	-	-	-	-	-	-	-	-	-	
C1(A) Supply at 400 Volts - up to 5 kW	0.01	0.00	38	68		-	24.75	-	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 (TOU) - Peak	12.19	0.07	-	-		460	27.88	440	30.33	(2.45)	20.00	-	
C-1C Time of Use (TOU) - Off Peak	35.67	0.19	289	139,247		460	17.04	440	21.10	(4.06)	20.00	-	
C2A Supply at 11 kV	1.01	0.01	12	2,693		440	21.15	420	25.08	(3.93)	20.00	-	
C-2B Time of Use (TOU) - Peak	56.17	0.31	-	-		440	23.96	420	29.38	(5.42)	20.00	-	
C-2B Time of Use (TOU) - Off Peak	162.38	0.88	68	503,811		440	18.63	420	21.28	(2.65)	20.00	-	
C3-A Supply above 11 kV	1.77	0.01	1	24,707		420	21.08	400	24.96	(3.88)	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		420	18.57	400	21.17	(2.60)	20.00	-	
Total Single Point Supply	308	1.67	564	757,378	-					-	-	-	
Agricultural Tube-wells - Tariff D	-	-	-	-		-	-	-	-	-	-	-	
D-1A (41,42,43,44,46)	-	-	3,309	-		-	24.16	-	23.51	-	-	0.65	
D-1B (45) Peak	10.77	0.06	-	-		220	27.53	200	27.25	-	20.00	0.28	
D-1B (45) Off-Peak	43.07	0.23	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)	0.66	0.00	3	2,826		220	18.28	-	11.75	-	220.00	6.53	
D-2B (50,51,53,54) Peak (NOR)	0.11	0.00	-	-		220	26.31	200	13.70	-	20.00	12.61	
D-2B (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)	473.24	2.57	-	-		220	26.31	-	13.70	-	220.00	12.61	
D-2B (50,51,53,54) Off-Peak (SUB)	2,730.49	14.83	101,005	15,594,876		220	16.36	-	11.28	-	220.00	5.08	
	-	-	-		-	-	-	-	-	-	-	-	
Total Agricultural	3,259	17.70	120,657	15,764,219						-	-	-	
Public Lighting G	20.12	0.11	2,019			-	23.30	-	26.30	(3.00)	-	-	
Residential Colonies H	7.32	0.04	151		-	-	23.87	-	26.44	(2.57)	-	-	
Special Contracts - Tariff K (AJK)	-	-	-			-	-	-	-	-	-	-	
Time of Use (TOU) - Peak	-	-	-			-	-	-	-	-	-	-	
Time of Use (TOU) - Off-Peak	-	-	-		-	-	-	-	-	-	-	-	
A-3a (66)	314.40	1.71	49,731			-	23.43	-	25.21	(1.78)	-	-	
		-								-			
Grand Total	18,411	100.00	8,738,058	32,104,500	-	-	-						

MEPCO
Revenue & Subsidy Statement - Proposed
F.Y. 2023-24 - (Full Year)

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue as per New Proposed Tariff		Revenue as per GoP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	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	67	0.36	637,639	-	-	-	354	-	351	-	-	3	3
For peak load requirement up to 5 kW	-	-	-	-	-	-	-	-	-	-	-	-	-
01-100 Units	1,716	9.32	4,407,502	-	-	-	35,907	-	22,024	-	-	13,884	13,884
101-200 Units	2,952	16.03	2,136,062	-	-	-	63,815	-	45,220	-	-	18,596	18,596
201-300 Units	2,460	13.36	430,328	-	-	-	56,637	-	43,678	-	-	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)
For peak load requirement exceeding 5 kW	-	-	-	-	-	-	-	-	-	-	-	-	-
Time of Use (TOU) - Peak	27	0.15	-	-	-	-	737	-	785	(48)	-	-	(48)
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)
Total Residential	10,656	57.88	7,760,391	-	-	-	247,957	-	202,630	(1,166)	-	46,493	45,327
Commercial - A2	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial - A-2A													
For peak load requirement up to 5 kW	534	2.90	703,936	-	-	-	13,677	-	13,975	(299)	-	-	(299)
Commercial (<100)	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial (<20 KW)													
For peak load requirement exceeding 5 kW	-	-	-	-	-	-	-	-	-	-	-	-	-
Regular A-2B	0	0.00	32	1,669	-	1	5	1	5	(1)	0	-	(1)
A-2C (TOU) - Peak (A-2)	109	0.59	-	-	-	-	2,946	-	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	-	(1,081)
Temporary Commercial E-111 (56)	7	0.04	2,340	-	-	-	188	-	188	(1)	-	-	(1)
Total Commercial	1,009	5.48	731,741	2,111,984	-	972	23,668	929	25,438	(1,770)	42	-	(1,728)
Industrial	-	-	-	-	-	-	-	-	-	-	-	-	-
B1 (400 Volts Upto 40kw) (07)	37	0.20	15,192	-	-	-	937	-	864	-	-	73	73
B1 (400 Volts Upto 40kw) (08)	-	-	22	-	-	-	-	-	-	-	-	-	-
B1 (b) (Peak)	75	0.41	-	-	-	-	2,018	-	2,055	(37)	-	-	(37)
B1 (b) (Off-Peak)	294	1.60	40,993	4,113,583	-	-	5,674	-	5,859	(185)	-	-	(185)
B2 (400 Volts 41-500 kw) B2-A (10)	0	0.00	2,013	96	-	0	1	0	1	(0)	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)	157	0.85	-	-	-	-	4,280	-	4,302	(22)	-	-	(22)
B3 - TOU (Off-peak)	717	3.89	446	2,920,324	-	1,285	12,427	1,227	13,724	(1,297)	58	-	(1,239)
B4 - TOU (Peak)	41	0.22	-	-	-	-	1,097	-	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	-	-	-	77	-	81	(4)	-	-	(4)
Total Industrial	2,837	15.41	72,804	13,470,918	-	4,217	56,582	4,030	59,250	(2,740)	187	73	(2,480)
Bulk	-	-	-	-	-	-	-	-	-	-	-	-	-
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)
C-1C Time of Use (TOU) - Off Peak	36	0.19	289	139,247	-	64	608	61	752	(145)	3	-	(142)
C2A Supply at 11 kV	1	0.01	12	2,693	-	1	21	1	25	(4)	0	-	(4)
C-2B Time of Use (TOU) - Peak	56	0.31	-	-	-	-	1,346	-	1,650	(304)	-	-	(304)
C-2B Time of Use (TOU) - Off Peak	162	0.88	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	-	(6)
C3-B Time of Use (TOU) - Peak	6	0.03	-	-	-	-	164	-	155	(21)	-	-	(21)
C3-B Time of Use (TOU) - Off-Peak	32	0.18	2	85,639	-	36	602	34	686	(84)	2	-	(83)
Total Single Point Supply	308	1.67	564	757,378	-	334	6,157	319	7,183	(1,027)	15	-	(1,012)
Agricultural Tube-wells - Tariff D	-	-	-	-	-	-	-	-	-	-	-	-	-
D-1A (41,42,43,44,46)	-	-	3,369	-	-	-	-	-	-	-	-	-	-
D-1B (45) Peak	11	0.06	-	-	-	-	296	-	293	-	-	3	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	0	1	-	0	1	1
D-2A (47,48,49,52) (SUB)	1	0.00	3	2,826	-	1	12	-	8	-	1	4	5
D-2B (50,51,53,54) Peak (NOR)	0	0.00	-	-	-	-	3	-	2	-	-	1	1
D-2B (50,51,53,54) Off-Peak (NOR)	0	0.00	3,944	53,240	-	12	6	11	4	-	1	2	3
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	14.83	101,005	15,594,876	-	3,431	44,674	-	30,803	-	3,431	13,871	17,302
	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Agricultural	3,259	17.70	120,857	15,764,219	-	3,468	58,298	33	38,376	-	3,435	19,923	23,357
Public Lighting G	20	0.11	2,019	-	-	-	469	-	529	(60)	-	-	(60)
Residential Colonies H	7	0.04	151	-	-	-	175	-	194	(19)	-	-	(19)
Special Contracts - Tariff K (AJK)	-	-	-	-	-	-	-	-	-	-	-	-	-
Time of Use (TOU) - Peak	-	-	-	-	-	-	-	-	-	-	-	-	-
Time of Use (TOU) - Off-Peak	-	-	-	-	-	-	-	-	-	-	-	-	-
A-3a (66)	314	1.71	49,731	-	-	-	7,367	-	7,926	(560)	-	-	(560)
	-	-	-	-	-								
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

FORM - 28

MEPCO

Revenue & Subsidy Statement - Proposed

This Format Relates to Power Supply Business

F.Y. 2024-25 - (Full Year)

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue as per New Proposed Tariff		Revenue as per GoP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	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	68.29	0.36	675,997			-	5.67	-	5.62	-	-	0.05	
For peak load requirement up to 5 kW	-	-	-				-		-		-	-	
01-100 Units	1,753.93	9.33	4,671,952			-	22.43	-	14.34	-	-	8.09	
101-200 Units	3,013.68	16.03	2,264,226			-	23.18	-	16.88	-	-	6.30	
201-300 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 700 Units	579.47	3.08	6,120			-	29.62	-	31.37	(1.75)	-	-	
For peak load requirement exceeding 5 kW	-	-	-			-	-	-	-	-	-	-	
Time of Use (TOU) - Peak	27.41	0.15	-			-	29.55	-	31.35	(1.80)	-	-	
Time of Use (TOU) - Off-Peak	109.65	0.58	21,886			-	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	-	-					-	-	-	
Commercial - A2	-	-	-			-	-	-	-	-	-	-	
Commercial - A-2A	544.41	2.90	746,172			-	27.48	-	28.04	(0.56)	-	-	
Commercial (<100)	-	-	-			460	-	440	-	-	20.00	-	
Commercial (<20 KW)													
For peak load requirement exceeding 5 kW	-	-	-			460	-	440	-	-	20.00	-	
Regular A-2B	0.20	0.00	34	1,686		460	24.87	440	28.95	(4.08)	20.00	-	
A-2C (TOU) - Peak (A-2)	111.63	0.59	-	-		460	28.88	440	32.05	(3.17)	20.00	-	
A-2C (TOU) - Off-Peak	365.94	1.95	26,959	2,131,418		460	20.48	440	23.61	(3.13)	20.00	-	
Temporary Commercial E-111 (56)	7.16	0.04	2,460	-		-	28.67	-	28.78	(0.11)	-	-	
Total Commercial	1,029	5.47	775,645	2,133,104						-	-	-	
Industrial	-	-	-	-	-	-	-	-	-	-	-	-	
B1 (400 Volts Upto 40kw) (07)	37.67	0.20	19,284	-		-	27.21	-	25.24	-	-	1.97	
B1 (400 Volts Upto 40kw) (08)	-	-	23	-		-	27.21	-	25.24	-	-	1.97	
B1 (b) (Peak)	76.74	0.41	-	-		-	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	-	-		460	28.51	440	29.12	(0.61)	20.00	-	
B2 - B TOU (Off-peak)	1,094.00	5.82	11,687	5,771,544		460	20.15	440	20.95	(0.80)	20.00	-	
B3 - TOU (Peak)	160.44	0.85	-	-		440	29.18	420	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	400	20.68	(0.81)	20.00	-	
Temporary E-2 (58)	3.62	0.02	108	-		-	24.16	-	25.42	(1.26)	-	-	
Total Industrial	2,893	15.39	77,174	13,605,627						-	-	-	
Bulk	-	-	-	-	-	-	-	-	-	-	-	-	
C1(A) Supply at 400 Volts - 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	1,226		460	25.58	440	27.66	(2.08)	20.00	-	
C-1C Time of Use (TOU) - Peak	12.44	0.07	-	-		460	29.90	440	32.35	(2.45)	20.00	-	
C-1C Time of Use (TOU) - Off Peak	36.38	0.19	306	140,640		460	18.27	440	22.33	(4.06)	20.00	-	
C2A Supply at 11 kV	1.03	0.01	13	2,720		440	22.67	420	26.60	(3.93)	20.00	-	
C-2B Time of Use (TOU) - Peak	57.30	0.30	-	-		440	25.69	420	31.11	(5.42)	20.00	-	
C-2B Time of Use (TOU) - Off Peak	165.62	0.88	72	508,849		440	19.98	420	22.63	(2.65)	20.00	-	
C3-A Supply above 11 kV	1.81	0.01	1	24,954		420	22.60	400	26.48	(3.88)	20.00	-	
C3-B Time of Use (TOU) - Peak	6.30	0.03	-	-		420	28.55	400	31.95	(3.40)	20.00	-	
C3-B Time of Use (TOU) - Off-Peak	33.07	0.18	2	86,495		420	19.91	400	22.51	(2.60)	20.00	-	
Total Single Point Supply	314	1.67	597	764,952	-					-	-	-	
Agricultural Tube-wells - Tariff D	-	-	-	-		-	-	-	-	-	-	-	
D-1A (41,42,43,44,46)	-	-	3,503	-		-	26.90	-	25.25	-	-	0.65	
D-1B (45) Peak	10.98	0.06	-	-		220	29.52	200	29.24	-	20.00	0.28	
D-1B (45) Off-Peak	43.94	0.23	1,211	112,080		220	21.26	200	19.56	-	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	-	220.00	6.53	
D-2B (50,51,53,54) Peak (NOR)	0.12	0.00	-	-		220	28.21	200	15.60	-	20.00	12.61	
D-2B (50,51,53,54) Off-Peak (NOR)	0.35	0.00	4,181	53,772		220	17.54	200	12.46	-	20.00	5.08	
D-2B (50,51,53,54) Peak (SUB)	482.70	2.57	-	-		220	28.21	-	15.60	-	220.00	12.61	
D-2B (50,51,53,54) Off-Peak (SUB)	2,785.10	14.81	107,085	15,750,625		220	17.54	-	12.46	-	220.00	5.08	
	-	-	-	-	-	-	-	-	-	-	-	-	
Total Agricultural	3,324	17.68	127,897	15,921,862						-	-	-	
Public Lighting G	20.52	0.11	2,140	-		-	24.98	-	27.98	(3.00)	-	-	
Residential Colonies H	7.47	0.04	160	-	-	-	25.59	-	28.16	(2.57)	-	-	
Special Contracts - Tariff K (AJK)	-	-	-	-		-	-	-	-	-	-	-	
Time of Use (TOU) - Peak	-	-	-	-		-	-	-	-	-	-	-	
Time of Use (TOU) - Off-Peak	-	-	-	-	-	-	-	-	-	-	-	-	
A-3a (66)	320.67	1.71	52,714	-		-	25.12	-	26.90	(1.78)	-	-	
		-		-						-			
Grand Total	18,801	100.00	9,262,341	32,425,545	-	-	-						

MEPCO
Revenue & Subsidy Statement - Proposed
F.Y. 2024-25 - (Full Year)

Description	Sales	Sales Mix	No. of Consumers	Connected Load	Load Factor	Revenue as per New Proposed Tariff		Revenue as per GoP Notified Tariff		IDTR	Subsidy		
						Fixed Charge	Variable Charge	Fixed Charge	Variable Charge		Fixed Charge	Variable Charges	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	68	0.36	675,897	-	-	-	387	-	384	-	-	3	3
For peak load requirement up to 5 kW	-	-	-	-	-	-	-	-	-	-	-	-	-
01-100 Units	1,754	9.33	4,671,952	-	-	-	39.344	-	25,155	-	-	14,189	14,189
101-200 Units	3,014	16.03	2,264,226	-	-	-	69,860	-	50,874	-	-	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
Above 700 Units	579	3.08	6,120	-	-	-	17,162	-	18,176	(1,014)	-	-	(1,014)
For peak load requirement exceeding 5 kW	-	-	-	-	-	-	-	-	-	-	-	-	-
Time of Use (TOU) - Peak	27	0.15	-	-	-	-	910	-	859	(49)	-	-	(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)
Total Residential	10,891	57.93	8,226,014	-	-	-	271,744	-	225,439	(1,193)	-	47,498	46,305
Commercial - A2	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial - A-2A													
For peak load requirement up to 5 kW	544	2.90	746,172	-	-	-	14,958	-	15,263	(305)	-	-	(305)
Commercial (<100)	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial (<20 KW)													
For peak load requirement exceeding 5 kW	-	-	-	-	-	-	-	-	-	-	-	-	-
Regular A-2B	0	0.00	34	1,666	-	1	5	1	6	(1)	0	-	(1)
A-2C (TOU) - Peak (A-2)	112	0.59	-	-	-	-	3,224	-	3,578	(354)	-	-	(354)
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	-	981	25,885	939	27,691	(1,806)	43	-	(1,763)
Industrial	-	-	-	-	-	-	-	-	-	-	-	-	-
B1 (400 Volts Upto 40kw) (07)	38	0.20	19,284	-	-	-	1,025	-	951	-	-	74	74
B1 (400 Volts Upto 40kw) (08)	-	-	23	-	-	-	-	-	-	-	-	-	-
B1 (b) (Peak)	77	0.41	-	-	-	-	2,207	-	2,245	(38)	-	-	(38)
B1 (b) (Off-Peak)	300	1.60	43,453	4,154,719	-	-	6,205	-	6,394	(189)	-	-	(189)
B2 (400 Volts 41-500 kw) B2-A (10)	0	0.00	2,134	97	-	0	1	0	1	(0)	0	-	(0)
B2 - B TOU (Peak)	225	1.20	-	-	-	-	6,426	-	6,564	(137)	-	-	(137)
B2 - B TOU (Off-peak)	1,094	5.82	11,687	5,771,544	-	2,655	22,043	2,539	22,918	(875)	118	-	(756)
B3 - TOU (Peak)	160	0.85	-	-	-	-	4,681	-	4,704	(22)	-	-	(22)
B3 - TOU (Off-peak)	731	3.89	473	2,949,528	-	1,298	13,591	1,239	14,914	(1,323)	59	-	(1,264)
B4 - TOU (Peak)	43	0.23	-	-	-	-	1,215	-	1,241	(26)	-	-	(26)
B4 - TOU (Off-peak)	222	1.18	12	729,740	-	306	4,405	292	4,584	(180)	15	-	(165)
Temporary E-2 (58)	4	0.02	108	-	-	-	87	-	92	(5)	-	-	(5)
Total Industrial	2,893	15.39	77,174	13,605,627	-	4,259	61,887	4,070	64,608	(2,795)	189	74	(2,532)
Bulk	-	-	-	-	-	-	-	-	-	-	-	-	-
C1(A) Supply at 400 Volts - up to 5 kW	0	0.00	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	-	-	-	-	372	-	402	(30)	-	-	(30)
C-1C Time of Use (TOU) - Off Peak	36	0.19	306	140,640	-	55	665	62	812	(148)	3	-	(145)
C2A Supply at 11 kV	1	0.01	13	2,720	-	1	23	1	27	(4)	0	-	(4)
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 Supply 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)	-	-	(21)
C3-B Time of Use (TOU) - Off-Peak	33	0.18	2	86,495	-	36	658	35	744	(86)	2	-	(84)
Total Single Point Supply	314	1.67	597	764,952	-	337	6,733	322	7,781	(1,047)	15	-	(1,032)
Agricultural Tube-wells - Tariff D	-	-	-	-	-	-	-	-	-	-	-	-	-
D-1A (41,42,43,44,46)	-	-	3,508	-	-	-	-	-	-	-	-	-	-
D-1B (45) Peak	11	0.06	-	-	-	-	324	-	321	-	-	3	3
D-1B (45) Off-Peak	44	0.23	1,211	112,080	-	25	934	22	859	-	2	75	77
D-2A (47,48,49,52) (NOR)	0	0.00	11,929	2,330	-	1	2	0	1	-	0	1	1
D-2A (47,48,49,52) (SUB)	1	0.00	3	2,854	-	1	13	-	9	-	1	4	5
D-2B (50,51,53,54) Peak (NOR)	0	0.00	-	-	-	-	3	-	2	-	-	1	1
D-2B (50,51,53,54) Off-Peak (NOR)	0	0.00	4,181	53,772	-	12	6	11	4	-	1	2	3
D-2B (50,51,53,54) Peak (SUB)	483	2.57	-	-	-	-	13,619	-	7,532	-	-	6,087	6,087
D-2B (50,51,53,54) Off-Peak (SUB)	2,785	14.81	107,065	15,750,825	-	3,465	48,859	-	34,711	-	3,465	14,148	17,613
	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Agricultural	3,324	17.68	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 - Tariff K (AJK)	-	-	-	-	-	-	-	-	-	-	-	-	-
Time of Use (TOU) - Peak	-	-	-	-	-	-	-	-	-	-	-	-	-
Time of Use (TOU) - Off-Peak	-	-	-	-	-	-	-	-	-	-	-	-	-
A-3a (66)	321	1.71	52,714	-	-	-	8,056	-	8,627	(571)	-	-	(57
	-	-	-	-	-								
Grand Total	18,801	100	9,262,341	32,425,545	-	9,080	438,769	5,364	378,368	(7,493)	3,716	67,894	64,117

MEPCO

Bonds

Particulars	Interest Rate	FY ----			
		Opening Balance	Redemption	Closing Balance	Interest Charges
		NIL			

Thanks

Multan Electric Power Company Ltd.

Calculation Sheet of Return on Rate Base

FY 2015-16 To FY 2019-20

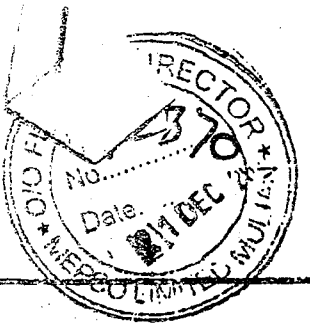
Description		FY 2015-16	FY 2015-16	FY 2016-17	FY 2016-17	FY 2017-18	FY 2017-18	FY 2018-19	FY 2018-19	FY 2019-20	FY 2019-20
		Determined	Actual	Determined	Actual	Determined	Actual	Determined	Actual	Determined	Actual
Gross Fixed Assets in Operation - Opening Bal	[Mln Rs]	95,785	95,785	104,399	104,399	118,360	119,651	130,473	130,473	144,295	144,295
Addition in Fixed Assets	[Mln 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	[Mln Rs]	104,399	104,399	118,360	119,651	129,811	130,473	144,295	144,295	158,163	154,065
Less: Accumulated Depreciation	[Mln 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	[Mln 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	[Mln 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	[Mln Rs]	81,680	77,729	89,965	86,987	98,871	95,913	108,889	108,890	117,736	117,672
Less: Deferred Credits	[Mln Rs]	58,833	43,891	53,832	48,488	58,235	52,220	68,595	57,195	69,990	59,724
Regulatory Assets Base	[Mln 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)	[Mln 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	[Mln 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	[Mln Rs]		**1,344**		**790**		**321**		**1,324**		**1,622**
TOTAL (Mln Rs.)											**5,400**

Dr. Note RECEIVED FROM CPPA PAYABLE OF MEPCO

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	Council fee
3	PPA-335/MEPCO-19	Jun-14	456,376,227.09	PEPCO Allied offices exp from 2008 to 2014
4	PPA-228/MEPCO-22	Jun-15	12,025,552.00	PEPCO Allied offices exp FOR 2015
5	PPA-228/MEPCO-20	Jun-16	70,079,297.05	PEPCO Allied offices exp FOR 2016
6	PPA-35/MEPCO-03	Jun-17	74,[illegible]3,370	PEPCO Allied offices exp FOR 2017
7	PPA-203/MEPCO-19	Oct-15	[illegible]59.00	Advertisement expense
	TOTAL		881,620,197.75	

609 m Pepco ext.b.

6/11 (F) (1)



Central Power Purchasing Agency

MANAGER FINANCE (Treasury) CPPA
Napier Road, Gardee Trust Building, Lahore.

PHONE 99213791-94 EXT 120
FAX NO. 99213701

OFFICE OF THE
Manager Finance (Treasury) CPPA
NAPIER ROAD, LAHORE.

NO.MF(T)/CPPA/IOT/ 455 DATED: 26-11-2014

738

FINANCE DIRECTOR
MEPCO, MULTAN

SUBJECT: DEBIT MEMO FOR Jun-14

Please find enclosed herewith Debit Memo details as below pertains to your company for necessary and early adjustment at your end.

SR.NO	CREDIT MEMO NO.	MONTH	AMOUNT	ENCLOSURES
1	PPA-335/MEPCO-13	Jun-14	458,376,227.00	1

F. D. MEPCO
DATE 19 DEC 2014
Admn
Assets
Audit Cell
Banking
Budget
Compilation
Establishment
Pay Fixation
Pension
Salary Slip
Pre-Audit
Tax Cell

ASSTT: MANAGER (C.A)
RECEIVEABLE PAYABLES/IOT

MEPCO

CENTRAL POWER PURCHASING AGENCY

Manager Finance (Treasury) CPPA
Gardee Trust Building Napier Road Lahore.

DEBIT MEMO

REFERNECE: IOT SECTION Jun-14

PPA-335/MEPCO-19

ISSUING OFFICE Manager Finance (Treasury) CPPA

RECEIVING OFFICE: FINANCE DIRECTOR, MEPCO, MULTAN

Dated: Jun-14

PEPCO Allied Exp

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
150108	TRADE DEBTORS	456,376,227.00	
	TOTAL	456,376,227.00	

PREPARED BY

CHECKED BY

APPROVED BY

SUBJECT: FINANCING TO PEPCO FORMATION BY M.F (TREASURY) CPPA, TO BE PRORATED TO DISCOs

It is apprised that Manager Finance (Treasury) CPPA/NTDCL is making payments to lower formations of PEPCO against O&M expense since July 2008. The said expense is to be debited to DISCOs/GENCOs at different ratio as mentioned 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:-

Stopped from July 2008

M.F. (T) CPPA D. No: 682 Dated: 4/6/14

S.NO	FORMATIONS	AMOUNT	DEBITABLE TO
1	C.E (R.E)	85,347,238	All DISCOs at different ratio
2	C.E (ADMN:) POWER	1,553,058,998	All DISCOs at different ratio
3	C.E (P.D)	100,562,396	All DISCOs at different ratio
4	G.M. (M&S)	331,209,823	All DISCOs at different ratio
5	CHIEF AUDITOR	212,925,971	All DISCOs at different ratio
6	PMU	252,508,498	All DISCOs at different ratio
7	M.F THERMAL	396,788,575	All GENCOs on equal basis
8	G.M FINANCE (PEPCO)	132,110,875	All DISCOs at different ratio
	TOTAL	3,063,992,274	

1627 14-11-14

2. 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 expense to the concerned entities at the ratio as mentioned in the Budget Allocation.

3. 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.

4. Submitted please.

ASSTT. MANAGER (IOT) 10/11

5. DY.MANAGER (ADMN: /ACS) 10/11/2014

6. MANAGER FINANCE (TREASURY) As advised, the case for

7. proration of funds transferred to Allied Offices is submitted for getting approval of CFO (PEPCO) as mentioned above pl. 11/11/14

8. GM F (PEPCO) The aforesaid details provide an overall picture of the long outstanding matter.

M.F.(T) may please be advised to reconcile the figures in para-2 with the respective allied off... PEPCO and prepare a year-wise break-up f... issuing the Debit Note to DISCOs/GENCOs at the earli...

11/11/2014

9. CFO/PEPCO

Allocations to be issued as propos... for above paras. Para 2 is approval. Reconciliation Process to be completed side by side.

12/11

10 SMF

As per direction in para-9.

11 MF(T)/CPPA For further n/action pl. 13/11/2014

13/11/14

12. DM (A/Cs)

DATE FROM : 01.07.2[illegible] [illegible] 30.05.2014

SR.NO.	NAME OF PEPCO FORMATIONS	Expenditure 2008 To 2014	LESCO	PESCO	MEPCO	QESCO	GEPCO	IESCO	PESCO	HESCO	GENCO-I	GENCO-II	GENCO-III	GENCO-IV	WAPDA	[illegible]
1	MD (NEEI)	1,553,056,998	416,375,117	231,932,131	268,956,985	9,704,272	133,571,574	243,063,733	121,193,906	80,672,663						1,553,056,998.00
2	CAF(PEPCO)	132,110,875	35,416,976	19,978,534	22,043,750	452,550	15,615,060	30,675,352	10,317,653	7,544,231						132,110,875.00
3	G.M(HRS)	331,900,623	88,958,160	47,435,555	57,396,708	2,080,401	50,710,697	51,920,200	25,914,332	30,948,929						[illegible]
4	C.E(AI)	86,347,238	23,149,695	12,339,020	14,920,503	543,988	10,206,244	13,513,343	6,743,719	4,930,127						[illegible]
5	CHIEF AUDITOR	212,925,971	57,059,663	30,412,051	34,776,338	1,340,504	25,156,030	33,307,264	16,611,703	12,162,343						[illegible]
6	SP.BAAO THERMAL	396,760,675	-	-	-	-	-	-	-	-	99,192,169	99,353,169	99,792,169	99,392,709		[illegible]
7	C.E (P&D)	100,562,396	29,411,760	10,346,664	12,591,571	456,151	8,553,362	11,331,371	5,650,835	4,334,321					21,757,671	[illegible]
8	C.E (PMU)	252,594,498	67,697,520	35,083,464	42,833,150	1,590,904	29,846,504	49,517,550	19,720,914	14,419,350						[illegible]
CLOSING BALANCE		3,055,992,274	708,069,879	377,209,350	456,396,397	16,548,727	312,974,016	373,326,949	[illegible]	150,601,975	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

reconcile the allied offi[illegible] [illegible] for action

Central Power Purchasing Agency Guarantee Limited.

A Company of Government of Pakistan

051-9216956

OFFICE OF THE
Manager Corporate Accounts CPPA-G
4th Floor, ENERCON Building, Islamabad

CPF/(T)/CPPA/IOT/ 2484/-43 DATED: 2-6-17

FINANCE DIRECTOR
(MEPCO) Multan.

SUBJECT: DEBIT MEMO FOR Jun-17

Please find enclosed herewith Debit Memo details as below pertains to your company for necessary cash payment through a Cross cheque in favour of CPPA-G within 7 days i.e not later than June,09 -

SR.NO	DEBIT MEMO NO.	MONTH	AMOUNT	ENCLOSURES
1	PPA-35/MEPCO-03	Jun-17	71,618,672.70	5

ASSTT: MANAGER (C.A)
RECEIVEABLE PAYABLES/IOT

C.C TO:-

1 C.F.O CPPA-G for information please.
2 G.M Finance PEPCO, 712-Wapda House, Lahore for information please.

D. MEPCO
DATE .....
Admn
Assets
Audit Cell
Bank
Budget
Cash
Pay Fixation
Pension
Salary Slip
Pre-Audit
Tax Cell
Receivables

Central Power Purchasing Agency Guarantee Limited

A Company of Government of Pakistan

CPPA

Manager Corporate Accounts CPPA (G) Ltd
ENERCON Building, Blue Area, Islamabad

DEBIT NOTE

EFERNECE: JV Imprest Jun-17

FPA-35/MEPCO-03

SSUING OFFICE Manager Corporate Accounts CPPA (G) Ltd

RECEIVING OFFICE: FINANCE DIRECTOR, MEPCO, MULTAN

Dated: Jun-17

PEPCO-Allied EAP 73/17

We have Debited your account for the amount of Rs. 71,618,672.70

Seventy One Million Six Hundred Eighteen Thousand Six Hundred Seventy Two Rupees and Seventy Paisa

Being the Debit raised on account of payment made to PEPCO Allied formation during 2016-17 on your behalf as per ration approved in Budget of each formation. It is hereby advised to please issue a cheque in favour of CPPA-G for the amount mentioned above within 7 days time (Upto 09 June 2017).

ACCOUNT CODE	DESCRIPTION	DEBIT	CREDIT
150108	TRADE DEBTORS	71,618,672.70	
	TOTAL	71,618,672.70	

PREPARED BY

CHECKED BY

APPROVED BY

CENTRAL POWER PURCHASING AGENNCY GURANTEE LTD

			J.V NO:	MONTH:
DISCOs	A/C HEAD	RATIO	DR	CR
LESCO	150106	24	112,126,859.28	
FESCO	150107	14	65,407,334.66	
MEPCO	150108	15	70,079,287.06	
QESCO	150109	6	28,031,714.82	
GEPCO	150110	11	51,391,477.17	
IESCO	150111	10	46,719,524.70	
PESCO	150112	10	46,719,524.70	
HESCO	150113	5	23,359,762.35	
TESCO	150118	1	4,671,952.47	
SEPCO	150137	4	18,687,809.88	
TOTAL (DISCOs)		100	467,195,247.00	
GENCO-I	150102	30	34,596,133.20	
GENCO-II	150103	30	34,596,133.20	
GENCO-III	1050104	30	34,596,133.20	
GENCO-IV	150117	10	11,532,044.40	
TOTAL (GENCOs)		100	115,320,444.00	
TOTAL(DIS+GEN)			582,515,691.00	
PEPCO	290119000		1,128,650	
PEPCO (CEP)	190119006		4,903,049	
				20,066
PMU	150119001			12,280,000
M&S	150119002			40,200,000
M.D POWER	150119003			241,223,256
C.A PEPCO	150119004			42,594,000
SR B&O(TH)	150119005			116,449,000
C.E (P&D)	150119006			22,524,000
REO	15011907			18,745,000
M.D PEPCO	150119008			94,506,974
G.TOTAL.			588,547,296.00	588,547,296

Central Power Purchasing Agency Guarantee Limited

A Company of Government of Pakistan

CPPA

PHONE 051-9216956

OFFICE OF THE
Manager Corporate Accounts CPPA-G
4th Floor, ENERCON Building, Islamabad

NO.MF/(T)/CPPA/IOT/ 23592 DATED: 24-05-2016

FINANCE DIRECTOR
(MEPCO) Multan.

SUBJECT: DEBIT MEMO FOR Jun-16

Please find enclosed herewith Debit Memo details as below pertains to your company for necessary and early adjustment at your end.

SR.NO	DEBIT MEMO NO.	MONTH	AMOUNT	ENCLOSURES
1	PPA-228/MEPCO-20	Jun-16	70,079,287.05	

ASSTT: MANAGER (C.A)
RECEIVEABLE PAYABLES/I

Central Power Purchasing Agency Guarantee Limited

A Company of Government of Pakistan

CPPA

Manager Corporate Accounts CPPA (G) Ltd

ENERCON Building, Blue Area, Islamabad

DEBIT NOTE

REFERENCE: JV IOT Jun-16

PPA-228/MEPCO-20

ISSUING OFFICE: Manager Corporate Accounts CPPA (G) Ltd

RECEIVING OFFICE: FINANCE DIRECTOR, MEPCO, MULTAN

Dated: Jun-16

Mepco Allied Comp.

25/8/2

We have Debited your account for the amount of Rs. 70,079,287.05

Seventy Million Seventy Nine Thousand Two Hundred Eighty Seven Rupees and Five Paisa

being the Debit raised on account of payment made to PEPCO Allied formation during 2015-16 on your behalf as per ration approved in Budget of each formation

ACCOUNT CODE	DESCRIPTION	DEBIT	CREDIT
150108	TRADE DEBTORS	70,079,287.05	
	TOTAL	70,079,287.05	

PREPARED BY

CHECKED BY

APPROVED BY

DETAIL OF FUNDS ISSUED TO PESCO, ALLIED/GENCO HOLDING OFFICES DURING JULY, 16 TO 25-05-2017						
	CHIEF AUDITOR	GME (PESCO)	M&S	PMU	M.D (P)	THERMAL
285,000.00	1,000,000.00	10,000,000.00	750,000.00	480,000.00	5,000,000.00	1,800,000.00
665,000.00	2,200,000.00	2,275,000.00	1,750,000.00	215,000.00	1,900,000.00	4,200,000.00
285,000.00	2,000,000.00	1,225,000.00	750,000.00	63,402,618.00	12,000,000.00	1,800,000.00
665,000.00	1,000,000.00	2,275,000.00	750,000.00	400,000.00	5,000,000.00	4,200,000.00
800,000.00	2,200,000.00	1,225,000.00	3,268,000.00	500,000.00	12,000,000.00	2,000,000.00
285,000.00	1,000,000.00	1,225,000.00	750,000.00	215,000.00	5,000,000.00	1,500,000.00
1,235,000.00		12,000,000.00	2,500,000.00	400,000.00	5,000,000.00	1,800,000.00
665,000.00		2,275,000.00	1,750,000.00	215,000.00	1,000,000.00	4,200,000.00
2,700,000.00		1,225,000.00	750,000.00	800,000.00	13,600,000.00	1,800,000.00
285,000.00		2,275,000.00	1,750,000.00	615,000.00	7,225,000.00	4,200,000.00
665,000.00		12,000,000.00	1,800,000.00	400,000.00	14,200,000.00	2,000,000.00
285,000.00		2,526,429.00	750,000.00	2,450,000.00	6,000,000.00	1,800,000.00
		13,590,000.00	750,000.00	215,000.00	14,200,000.00	4,200,000.00
		1,225,000.00		400,000.00	53,100,000.00	2,000,000.00
		1,225,000.00		12,000,000.00	5,000,000.00	1,800,000.00
		12,600,000.00		350,000.00	5,000,000.00	4,200,000.00
		5,000,000.00		215,000.00	20,000,000.00	3,000,000.00
		12,000,000.00		1,115,000.00	20,000,000.00	1,800,000.00
		12,000,000.00		400,000.00		3,000,000.00
		12,000,000.00		4,490,771.00		4,200,000.00
		20,000,000.00		800,000.00		2,500,000.00
				750,000.00		6,000,000.00
				3,500,000.00		2,500,000.00
				800,000.00		13,140,000.00
				750,000.00		5,000,000.00
						4,000,000.00
						6,774,000.00
						6,000,000.00
						2,000,000.00
						6,000,000.00
8,820,000.00	9,400,000.00	140,066,429.00	18,068,000.00	95,878,389.00	205,225,000.00	109,414,000.00
TOTAL						586,871,818

CPPA

CENTRAL POWER PURCHASING AGENNCY GURANTEE LTD

			J.V NO:	MONTH:
DISCOs	A/C HEAD	RATIO	DR	CR
LESCO	150106	24	114,589,876.32	
FESCO	150107	14	66,844,094.52	
MEPCO	150108	15	71,618,672.70	
QESCO	150109	6	28,647,469.08	
GEPCO	150110	11	52,520,359.98	
IESCO	150111	10	47,745,781.80	
PESCO	150112	10	47,745,781.80	
HESCO	150113	5	23,872,890.90	
TESCO	150118	1	4,774,578.18	
SEPCO	150157	4	19,098,312.72	
TOTAL (DISCOs)		100	477,457,818.00	
GENCO-I	150102	30	32,824,200.00	
GENCO-II	150103	30	32,824,200.00	
GENCO-III	1050104	30	32,824,200.00	
GENCO-IV	150117	10	10,941,400.00	
TOTAL (GENCOs)		100	109,414,000.00	
TOTAL(DIS+GEN)			586,871,818.00	
PMU	150119001			95,878,389
M&S	150119002			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			140,066,429
G.TOTAL			586,871,818.00	586,871,818

Central Power Purchasing Agency Guarantee Limited
A Company of Government of Pakistan

Manager Corporate Accounts CPPA (G) Ltd
ENERCON Building, Blue Area, Islamabad

DEBIT NOTE

REFERENCE: JV IOT Jun-15 PPA-329/MEPCO-22

ISSUING OFFICE: Manager Corporate Accounts CPPA (G) Ltd

Dated: Jun-15

RECEIVING OFFICE: FINANCE DIRECTOR, MEPCO, MULTAN

We have Debited your account for the amount of Rs. 12,025,552.00

Twelve Million Twenty Five Thousand Five Hundred Fifty Two Rupees and Zero Paisa

being the Debit raised on account of payment made to PEPCO Allied formation during 2014-13 on your behalf as

per ration approved in Budget of each formation

ACCOUNT CODE	DESCRIPTION	DEBIT	CREDIT
150198	TRADE DEBTORS	12,025,552.00	
	TOTAL	12,025,552.00	

PREPARED BY

CHECKED BY

APPROVED BY

Receiv...

PM ASSISTANCE PACKAGE

(Supporting Documents)

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

ABSTRACT

Sr. No.		One Time Payment	Annual Impact
1	Lump Sum Grant on 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

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

Lump Sum Grant

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

	34	2.500	85.000

Prime Minister Assistance Package for Families of Government Employee Who Die in Service
(Accomodation)

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	C-Type	20,700	269,100	3,229,200	9,687,600
	367			1880104	22561248	67683744

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

(Allotment of Plot)

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

(Marriage Grant)

Scale	No. of Employees	Lump Sum Grant	Total Amount	Monthly Impact
1-18	367	0.800	293.600	78.293
	Existing policy (.08*2*367)		58.720	
			234.880	

ONE PAGE HISTORY OF ASSISTANCE PACKAGE FOR FAMILIES OF EMPLOYEES WHO DIE IN SERVICE

- DG (HR) PEPCO WAPDA House, Lahore vide No. GM (HR)/HRD/A-332 /46050-76 dated: 04.11.2016 issued office memorandum regarding Assistance Package for families of employees who die in service (Annex-A).
- MEPCO BOD in 134th meeting held on 30.03.2018 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 letter No. 27074-77 dated: 14.03.2019 forwarded the policy duly vetted by Rao Muhammad Iqbal, Advocate Supreme Court / Senior Legal Advisor MEPCO (Annex-E).
- New amended MEPCO policy duly vetted 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 MEPCO vide his letter No. 4586 dated: 01.09.2020 provided the financial implication for adoption / implementation of new amended MEPCO (Annex-H), in 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 amended 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 BOD for 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 policy 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)
182-WAPDA House, Shahrah-i-Quaid-i-Azam, Lahore.
Tel: (042) 99202632 & 99202211/2192 Fax (042) 36369324

Ref# GM(HR)/HRD/A-342/ 9250-75
Dated ___.___.2016

OFFICE MEMORANDUM

Subject: **Assistance Package for Families of Employees Who Die in Service.**

Reference: Decision of BoD PEPCO in Agenda Item No.5 in its 61st Meeting held on 23.09.2016.

BoD PEPCO has been pleased to adopt 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:

Item	In Service Death	Security Related Deaths
Lump Sum Grant	Upto Rs.3.0 million according to following scales:- BPS — Amount 1-4 — Rs.600,000 5-10 — Rs.900,000 11-15 — Rs.1,200,000 16-17 — Rs.1,500,000 18-19 — Rs.2,400,000 20 & above — Rs.3,000,000	a. Upto Rs. 10 million according to following scales:- BPS — Amount 1-16 — 3 Million 17 — 5 Million 18-19 — 9 Million 20 & above — 10 Million b. Rs.700,000/-to the officers/ officials incapacitated and released from service for having become invalid as a result of injury in encounters/ bomb blasts, riots/ watch and ward duty or terrorist activity
Pension	100% pension to the families of deceased employees as per their length of service and last pay drawn. In case of less than 10 years service of the deceased employees, rate of minimum 10 years service will be applicable.	100% pension to the families of deceased employees as per their length of service and last pay drawn. In case of less than 10 years service of the deceased employees, rate of minimum 10 years service will be applicable.
Accommodation	Retention of official accommodation or payment of rent of hired house till the age of superannuation.	Retention of official accommodation or payment of rent of hired house till the age of superannuation.
Education	Free education to all the children of the deceased employees upto graduation in any public/ government educational institution including expenses of tuition fee, books related material and living allowance etc.	Free education to all the children of the deceased employees upto graduation in any public/government educational institution including expenses of tuition fee, books related material and living allowance etc.
Allotment of Plot	Payment of lump sum grant in lieu of plot subject to the condition that no plot had been allotted in the past, as per scale given below:- BPS — Amount 1-8 — 2 Million 9-16 — 5 Million 17 & above — 7 Million	Payment of lump sum grant in lieu of plot subject to the condition that no plot had been allotted in the past, as per scale given below:- BPS — Amount 1-8 — 2 Million 9-16 — 5 Million 17 & above — 7 Million

Contd on P-2

Employment	Employment for posts in BS-01 to BS-15 on two years contract without advertisement. Provided further that in case the deceased employee is survived by two or more widows and/or children from these widows, right of contract appointment shall be decided in the following manner and order: a. the first widow or a child (18 years or above in age) from the first widow as soon as he/she attains age of 18 years but he/she has to exercise the option within the time period (one year from date of death) failing that; a. the right to contract appointment shall stand transferred to the 2nd widow or to a child (18 years or above in age) from the 2nd widow or to a child (18 years or above in age) from the 2nd widow or a minor child from the 2nd widow as soon as he/she attains age of 18 years but he/she has to exercise the option within two years of death. Note: Office Memorandum No.GM(HR)/HRD/1-549/2378-2400 dated 23.09.2010 & No.GM(HR)/HRD/A-693/2261-99 dated 03.07.2015 shall continue to be applicable in the same spirit.	Employment for posts in BS-01 to BS-15 on two years contract without advertisement. Provided further that in case the deceased employee is survived by two or more widows and/or children from these widows, right of contract appointment shall be decided in the following manner and order: b. the first widow or a child (18 years or above in age) from the first widow as soon as he/she attains age of 18 years but he/she has to exercise the option within the time period (one year from date of death) failing that; c. the right to contract appointment shall stand transferred to the 2nd widow or to a child (18 years or above in age) from the 2nd widow or to a child (18 years or above in age) from the 2nd widow or a minor child from the 2nd widow as soon as he/she attains age of 18 years but he/she has to exercise the option within two years of death. Note: Office Memorandum No.GM(HR)/HRD/1-549/2378-2400 dated 23.09.2010 & No.GM(HR)/HRD/A-693/2261-99 dated 03.07.2015 shall continue to be applicable in the same spirit.
Marriage Grant	Marriage grant amounting to Rs.8 lac on wedding of one daughter, may be granted to family of deceased employees.	Marriage grant amounting to Rs.8 lac on wedding of one daughter, may be granted to family of deceased employees.
Health	Free health facilities as per their entitlement during service.	Free health facilities as per their entitlement during service.
House Building Advance	In case of advance against salaries sanctioned by the competent authority, the unpaid balance to be waived off as per prevailing procedure.	In case of advance against salaries sanctioned by the competent authority, the unpaid balance to be waived off as per prevailing procedure.
Nomination of an Officer as Council	An officer of BS-17 or BS-18 may be nominated by respective office as Council who will be responsible for finalization/provision of all the facilities under the package, to the families of employees who die in service within one month of the incident.	An officer of BS-17 or BS-19 may be nominated by respective office as Council who will be responsible for finalization/provision of all the facilities under the package, to the families of employees who die in service within one month of the incident.
Special Lump Sum Grant from Welfare Fund	Nil	A special lump sum grant from Welfare Fund ranging from Rs.200,000 to Rs.500,000/-

Srl#	Pay Scale (BPS)	Lump sum Grant
1	1-10	200000
2	11-15	300000
3	17-19	400000
4	20 & above	500000

Contd on P-3

Monthly Welfare Grant

Sr.#	Pay Slabs		Grant
	Minimum	Maximum	
1	Upto	5500	4200
2	5501	5850	4350
3	5851	6200	4500
4	6201	6550	4650
5	6551	7000	4800
6	7001	7500	4750
7	7501	8000	4900
8	8001	8500	5050
9	8501	9000	5200
10	9001	9500	5350
11	9501	11000	5500
12	11001	13000	5900
13	13001	15000	6200
14	15001	17000	6500
15	17001	19000	6800
16	19001	21000	7100
17	21001	23000	7400
18	23001	25000	7700
19	25001	27000	8000
20	27001	29000	8300
21	29001	31000	8600
22	31001	33000	8900
23	33001	35000	9200
24	35001	37000	9500
25	37001	39000	9800
26	39001 & above		10100

Sr.#	Pay Slabs		Grant
	Minimum	Maximum	
1	Upto	6000	5000
2	6001	6350	5150
3	6351	6700	5300
4	6701	7050	5450
5	7051	7500	5600
6	7501	8000	5550
7	8001	8500	5700
8	8501	9000	5850
9	9001	9500	6000
10	9501	10000	6150
11	10001	12000	6500
12	12001	14000	6800
13	14001	16000	7100
14	16001	18000	7400
15	18001	20000	7700
16	20001	22000	8000
17	22001	24000	8300
18	24001	26000	8600
19	26001	28000	8900
20	28001	30000	9200
21	30001	32000	9500
22	32001	34000	9800
23	34001	36000	10100
24	36001	38000	10400
25	38001	40000	10700
26	40001 & above		11000

Prerequisite for facilitation of family of deceased Employees	In case of in service death of an employee, the following pre-requisites must immediately be fulfilled by the concerned office so that the family of the deceased employee may be facilitated without any delay:- a. Immediate submission of family pension case. b. Application for Anticipatory Pension (80% of the total pension). Besides, as a pro-active approach respective offices must observe the following practices regarding their employees:- a. Up to date list of family members of each employee for pension purpose be maintained beforehand. b. Nomination for Employees Provident Fund must be ensured for each employee in his/her life.	In case of in service death (security related) of an employee, the following pre-requisites must immediately be fulfilled by the concerned office so that the family of the deceased employee may be facilitated without any delay:- a. Immediate submission of family pension case. b. Application for Anticipatory Pension (80% of the total pension). Besides, as a pro-active approach respective offices must observe the following practices regarding their employees:- a. Up to date list of family members of each employee for pension purpose be maintained beforehand. b. Nomination for Employees Provident Fund must be ensured for each employee in his/her life.

Contd on P-4

EP Fund	Only payable amount of EP Fund shall be paid to the family of deceased employee.	Only payable amount of EP Fund shall be paid to the family of deceased employee.

2. A death will be deemed to be a "Security Related death" if it occurs due to a terrorist act or while combating or confronting the terrorist(s).

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

(Saghir Ahmad)
DG(HR) PEPCO

c.c.to:-

- All GMs PEPCO
- MD NTDC PEPCO
- All CEOs, DISCOs/ GHCL/GENCOs & PITC
- Chief Auditor PEPCO
- Company Secretary PEPCO w/r to his office letter No.1070-74/Secy/PEPCO/BOD/M-61/Item-5 dated 03.10.2016
- SO to MD PEPCO
- Master file

MEPCO
MULTAN ELECTRIC POWER COMPANY

Office of
The Company Secretary

Tel: 061-9210380 Ext: 2084
061/9330344
Fax: 061-9220204

No. 2433-94/Company Secy

Dated: 2/4/18

1. Mr. Akhlaq Ahmad Syed
House No. 162, Street No. 73,
G-9/3, Islamabad
2. Engr. Muhammad Akram Chaudhry
Chief Executive Officer,
MEPCO Multan.
3. Mr. Khalid Masood Khan,
10-Green Lane, Zakaria Town
Bosan Road, Multan.
4. Mr. Saadullah Khan
House No.45/1, Street No.1, Phase-2 DHA
Lahore-54792.
5. Mr. Shaheryar Chishty,
CEO, Asia Pak Investments,
Daewoo Pakistan Building, Kalma Chowk
231-Perone Pur Road Lahore.
6. Mr. Asrar Ahmad Malik
President, Multan Chamber of Commerce & Industry
Shahrah-e-Aiwan-e-Tijarat-o-Sanat,
Near Kalma Chowk, Multan
7. Mr. Bilal Ahmad Butt
Commissioner, Multan Division
Multan.
8. Mr. Zaffar Abbas
Joint Secretary (Transmission),
Room No. 255 Ministry of Water & Power,
Islamabad.
9. Muhammad Anwar Sheikh,
Joint Secretary (OP-II), Govt of Pakistan
Finance Division Islamabad.

Subject: MINUTES OF 134th BOD MEETING.

Enclosed please find herewith Minutes of 134th BOD Meeting held on 20-03-2018 (Tuesday) at 12:30 pm in MEPCO Conference Room Khanewal Road Multan for information and necessary action please.

DA/as above.

COMPANY SECRETARY

Copy to:-

1. Finance Director, MEPCO Ltd Multan.
2. GM/Admn: Director MEPCO Ltd Multan.
3. General Manager (Tech) MEPCO Ltd Multan.
4. General Manager (Op) Distn: MEPCO HQ Multan.
5. Chief Engineer/CS Director MEPCO Ltd Multan.
6. Chief Engineer (T&G) MEPCO Ltd Multan.
7. Chief Engineer (Development) HQ Multan.
8. Chief Engineer (Planning) HQ Multan.
9. Chief Engineer (O&M) HQ Multan.
10. DG (IS) MEPCO HQ Multan.
11. Project Director Construction MEPCO HQ Multan.
12. Manager (Security) / Transport MEPCO Multan.
13. Manager Internal Audit, MEPCO HQ Multan.
14. Manager (I.&L) MEPCO HQ, Multan.
15. Manager (MM) MEPCO HQ Multan.
16. Addl: Manager (Public Relations) MEPCO HQ Multan.

For information & necessary action.

Any mistake / out of the facts and figures in the working paper would make MEPCO management liable for the consequences.

Approval for authorization to Chief Executive Officer MEPCO for extension / relaxation in daily wages labor in T&W Multan, Vehari & Burewala etc.

Approval for authorization to Chief Executive Officer MEPCO Ltd Multan to grant the continued retention of 354 Nos. daily wagers already working on 89-days spell basis for village electrification, deposit works, HT Feeder & LT Proposals w.e.f 17-12-2017 to 15-03-2018 (89 days) and further (if required).

Decision:

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

v. "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, Lahore vide Office Memorandum No. GM(HR)/HRD/A-352/4050-75 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 mutandis, for families of employees, who die in service, as under:-

<table>
<tr><th>Item</th><th>In Service Death</th><th>Duty Related Deaths</th></tr>
<tr><td>Lump Sum Grant</td><td>Upto Rs.3.0 Million according to following scales:-
<table><tr><th>BPS</th><th>Amount</th></tr><tr><td>1-4</td><td>Rs.600,000</td></tr><tr><td>5-10</td><td>Rs.900,000</td></tr><tr><td>11-15</td><td>Rs.1,200,000</td></tr><tr><td>16-17</td><td>Rs.1,500,000</td></tr><tr><td>18-19</td><td>Rs.2,400,000</td></tr><tr><td>20 & above</td><td>Rs.3,000,000</td></tr></table></td><td>Upto Rs.10 Million according to following scales:-
<table><tr><th>BPS</th><th>Amount</th></tr><tr><td>1-15</td><td>Rs.3 Million</td></tr><tr><td>17</td><td>Rs.5 Million</td></tr><tr><td>18-19</td><td>Rs.9 Million</td></tr><tr><td>20 & above</td><td>Rs.10 Million</td></tr></table>Rs.700,000/- to the officers / officials incapacitated and released from service for having become invalid as a result of injury in encounters / bomb blasts, riots / watch and ward duty or terrorist activity.</td></tr>
<tr><td>Pension</td><td>100% pension to the families of deceased employees as per their length of service and last pay drawn. In case of less than 10 years' service of the deceased employees, rate of minimum 10 years' service will be applicable.</td><td>100% pension to the families of deceased employees as per their length of service and last pay drawn. In case of less than 10 years' service of the deceased employees, rate of minimum 10 years' service will be applicable.</td></tr>
<tr><td>Accommodation</td><td>Retention of official accommodation or payment of rent of hired house till the age of superannuation.</td><td>Retention of official accommodation or payment of rent of hired house till the age of superannuation.</td></tr>
<tr><td>Education</td><td>Free education to all the children of the deceased employees upto graduation in any public / government educational institution including expenses of tuition fee, books related material and living allowance etc.</td><td>Free education to all the children of the deceased employees upto graduation in any public / government educational institution including expenses of tuition fee, books related material and living allowance etc.</td></tr>
<tr><td>Allotment of Plot</td><td>Payment of lump sum grant in lieu of plot subject to the condition that no plot had been allotted in the past as per scale given below:-
<table><tr><th>BPS</th><th>Amount</th></tr><tr><td>1-8</td><td>Rs.2 Million</td></tr><tr><td>9-16</td><td>Rs.5 Million</td></tr><tr><td>17 & above</td><td>Rs.7 Million</td></tr></table></td><td>Payment of lump sum grant in lieu of plot subject to the condition that no plot had been allotted in the past as per scale given below:-
<table><tr><th>BPS</th><th>Amount</th></tr><tr><td>1-8</td><td>Rs.2 Million</td></tr><tr><td>9-16</td><td>Rs.5 Million</td></tr><tr><td>17 & above</td><td>Rs.7 Million</td></tr></table></td></tr>
</table>

<table>
<tr><td>Employment</td><td>Employment for sons of BS-01 to BS-15 on their coming of age without advertisement.

Provided further that in-case the deceased employee is survived by two or more widows and / or children from these widows, right of contract appointment shall be decided in the following manner and order:-
The first widow or a child (18 years or above in age) from the first widow as soon as he / she attains age of 18 years but he / she has to exercise the option within the time period (one years from date of death) failing that:
The right to contract appointment shall stand transferred to the 2nd widow or to a child (18 years or above in age) from the 2nd widow or to a child (18 years or above in age) from the 2nd widow or a minor child from the 2nd widow as soon as he / she attains age of 18 years but he / she has to exercise the option within two years of death.
Note: Office Memorandum No. GM(HR)/HRD/1-549/2376-2400 dated 23.09.2010 & No. GM(HR)/HRD/A-693/2261-99 dated 03.07.2015 shall continue to be applicable in the same spirit.</td><td>Employment for sons of BS-01 to BS-15 on their coming of age without advertisement.

Provided further that in-case the deceased employee is survived by two or more widows and / or children from these widows, right of contract appointment shall be decided in the following manner and order:-
The first widow or a child (18 years or above in age) from the first widow as soon as he / she attains age of 18 years but he / she has to exercise the option within the time period (one years from date of death) failing that:
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Note: Office Memorandum No. GM(HR)/HRD/1-549/2376-2400 dated 23.09.2010 & No. GM(HR)/HRD/A-693/2261-99 dated 03.07.2015 shall continue to be applicable in the same spirit</td></tr>
<tr><td>Marriage Grant</td><td>Marriage grant amounting to Rs.8 Lac on wedding of one daughter may be granted to family of deceased employees.</td><td>Marriage grant amounting to Rs.8 Lac on wedding of one daughter may be granted to family of deceased employees.</td></tr>
<tr><td>Health</td><td>Free health facilities as per their entitlement during service.</td><td>Free health facilities as per their entitlement during service.</td></tr>
<tr><td>House Building Advance</td><td>In case of advance against salaries sanctioned by the competent authority, the unpaid balance to be waived off as per prevailing procedure.</td><td>In case of advance against salaries sanctioned by the competent authority, the unpaid balance to be waived off as per prevailing procedure.</td></tr>
<tr><td>Nomination of an Officer as Council</td><td>An officer of BS-17 or BS-18 may be nominated by respective office as Council who will be responsible for finalization / provision of all the facilities under the package, to the families of employees who die in service within one month of the incident.</td><td>An officer of BS-17 or BS-18 may be nominated by respective office as Council who will be responsible for finalization / provision of all the facilities under the package, to the families of employees who die in service within one month of the incident.</td></tr>
<tr><td>Special Lump Sum Grant from Welfare Fund</td><td>Nil</td><td>A special lump sum grant from Welfare Fund ranging from Rs. 200,000 to Rs. 500,000/-
<table><tr><th>Sr #</th><th>Pay Scale (BPS</th><th>Lump Sum Grant</th></tr><tr><td>1</td><td>1-10</td><td>Rs.200,000</td></tr><tr><td>2</td><td>11-15</td><td>Rs.300,000</td></tr><tr><td>3</td><td>17-19</td><td>Rs.400,000</td></tr><tr><td>4</td><td>20 & above</td><td>Rs.500,000</td></tr></table></td></tr>
<tr><td>Monthly Welfare Grant</td><td><table><tr><th rowspan="2">Sr #</th><th colspan="2">Pay Slabs</th><th rowspan="2">Grant</th></tr><tr><th>Minimum</th><th>Maximum</th></tr><tr><td>1</td><td>upto</td><td>5000</td><td>4000</td></tr><tr><td>2</td><td>5001</td><td>5500</td><td>4150</td></tr><tr><td>3</td><td>5501</td><td>6000</td><td>4300</td></tr><tr><td>4</td><td>6001</td><td>6500</td><td>4450</td></tr><tr><td>5</td><td>6501</td><td>7000</td><td>4600</td></tr><tr><td>6</td><td>7001</td><td>7500</td><td>4750</td></tr></table></td><td><table><tr><th rowspan="2">Sr #</th><th colspan="2">Pay Slabs</th><th rowspan="2">Grant</th></tr><tr><th>Minimum</th><th>Maximum</th></tr><tr><td>1</td><td>upto</td><td>5000</td><td>8000</td></tr><tr><td>2</td><td>5001</td><td>5500</td><td>8300</td></tr><tr><td>3</td><td>5501</td><td>6000</td><td>8600</td></tr><tr><td>4</td><td>6001</td><td>6500</td><td>8900</td></tr><tr><td>5</td><td>6501</td><td>7000</td><td>9200</td></tr><tr><td>6</td><td>7001</td><td>7500</td><td>9500</td></tr></table></td></tr>
</table>

5	7001	8000	4200
6	8001	9000	5100
7	9001	10000	5800
8	10001	11000	6400
9	11001	12000	6900
10	12001	13000	7400
11	13001	14000	7800
12	14001	15000	8200
13	15001	16000	8600
14	16001	17000	8900
15	17001	18000	9200
16	18001	19000	9500
17	19001	20000	9800
18	20001	21000	10100
19	21001	22000	10400
20	22001	23000	10700
21	23001	24000	11000
22	24001	25000	11300
23	25001	26000	11600
24	26001	27000	11900
25	27001	28000	12200
26	28001 & above		12500

5	7001	8000	4200
6	8001	9000	5100
7	9001	10000	5800
8	10001	11000	6400
9	11001	12000	6900
10	12001	13000	7400
11	13001	14000	7800
12	14001	15000	8200
13	15001	16000	8600
14	16001	17000	8900
15	17001	18000	9200
16	18001	19000	9500
17	19001	20000	9800
18	20001	21000	10100
19	21001	22000	10400
20	22001	23000	10700
21	23001	24000	11000
22	24001	25000	11300
23	25001	26000	11600
24	26001	27000	11900
25	27001	28000	12200
26	28001 & above		12500

Prerequisite for facilitation of family of deceased Employees	In case of in service death of an employee, the following pre-requisites must immediately be fulfilled by the concerned office so that the family of the deceased employee may be facilitated without any delay:- Immediate submission of family pension case. Application for Anticipatory Pension (80% of the total pension). Beside as a pro-active approach respective offices must observe the following practices regarding their employees:- Up to date list of family members of each employee for pension purpose be maintained beforehand. Nomination for Employees Provident Fund must be ensured for each employee in his / her life.	In case of in service death of security related employee, the following pre-requisites must immediately be fulfilled by the concerned office so that the family of the deceased employee may be facilitated without any delay:- Immediate submission of family pension case. Application for Anticipatory Pension (80% of the total pension). Beside as a pro-active approach respective offices must observe the following practices regarding their employees:- Up to date list of family members of each employee for pension purpose be maintained beforehand. Nomination for Employees Provident Fund must be ensured for each employee in his / her life.
EP Fund	Only payable amount of EP Fund shall be paid to the family of deceased employee.	Only payable amount of EP Fund shall be paid to the family of deceased employee.

2. A death will be deemed to be a "Security Related Death" if it occurs due to a terrorist act or while combating or confronting 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 08.09.2017. 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 implementation 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 regarding 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 lump 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 122nd meeting held on 08.04.2017 against Agenda Item No. 16(iii) conveyed

Secretary MEPCO H/Qs Multan vide letter No. 4080-82 dated 20.04.2017 has HR&Admn Director to approach the Ministry of Water & Power & PEPCO for seeking to meet with the heavy financial impact if the policy is adopted. A reference made to MD PEPCO WAPDA House, Lahore vide this office letter dated 26.04.2017, that MEPCO BOD has requested to approach Ministry of Water & Power to allocate funds of Rs.570 million per annum to MEPCO on 1st July of every financial year to meet with the annual expenditure in this regard. The case was again presented before MEPCO BOD which in its decision taken in 123rd meeting held on 15.05.2017 against Agenda Item No. 04(vi) conveyed by Company Secretary MEPCO H/Qs Multan vide letter No. 5264-86 dated 26.05.2017 has accorded its approval for adoption 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 letter dated 22.06.2017 for allowing additional impact on revenue requirements w.e.f 04.11.2016 and to be requested in Tariff Structure from time to time. The following companies have adopted the Prime Minister's Assistance Package as under:-

1. IESCO
2. GEPCO
3. LESCO
   (except Allotment of Plot)
4. NTDCL
   (except Allotment of Plot & Special Lump sum Grant from Welfare Fund)

It was mentioned that All Pakistan WAPDA Hydro Electric Union (CBA) is also pressing hard for adoption of said package in MEPCO vide General Secretary, All Pakistan WAPDA Hydro Electric Union (CBA) letter dated 09.10.2017 & dated 23.11.2017 respectively. The Committee was requested to recommend the case for Board's approval. The Committee deliberated upon the issue and after due consideration principally agreed to recommended the case for Board's approval with the instructions to 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 Board was requested to consider the matter.

Decision 134-BOD-R31: RESOLVED that approval for adoption of DG (HR) PEPCO, O/O General Manager (HR) PEPCO, WAPDA House Lahore Office Memorandum No. [illegible]/HRD/A-332/4050-75 dated: 04.11.2016 as clarified by PEPCO from the same date as issued by PEPCO i.e. 04.11.2016 is hereby accorded subject to the 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 approval is based on the following confirmations by the management of MEPCO

a. The working paper represents true facts of subjected case.
b. Rules and procedure as laid down in PPRA Rules for such case have been duly complied with and adopted by the MEPCO.
c. Financial evaluation case has been carried out correctly on the basis of true facts.
d. Any misstatement of the facts and figures in the working paper would make MEPCO management liable for the consequences.

vi. **Approval for compensation package for Officers posted on Promotion out of parent companies.**

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

TAN ELECTRIC POWER COMPANY

Tel: 061-9210380
admn2section@yahc

4659-81

No 89-T CE/MEPCO/EA-II/PMAP

Office of the
MEPCO H/Qs, Multan

Date: - 24-04-2018

OFFICE ORDER

MEPCO BOD in its 134th 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 has been pleased to accord approval for adoption of DG (HR) PEPCO, WAPDA House Lahore Office Memorandum No. GM (HR) / HRD /A-332 050-75 dated: 04.11.2016 regarding revision of Assistance Package for families of deceased employee who die during service in MEPCO w.e.f 04.11.2016 subject to the 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 said package is applicable, mutatis mutandis, for families of employees, who die in service.

(Muhammad Naeem Ullah)
HR&Admn Director
MEPCO H/Qs Multan

Copy to:-

1. GM (HR) PEPCO, 192-WAPDA House Lahore.
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 (GSO) / (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.

U.O. Letter - 2018

SUBJECT:- PRIME MAN ... ISTANCE PACKAGE FOR FAMILIES OF ... IN SERVICE

It is intimated that DG (HR)/HRD/A-332/4050-75 dated 04.11.2016 regarding revision of Assistance Package for families of deceased employee who die during service has been adopted by MEPCO BOD in its 134th 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 enclosed) 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 Legal ensuring that there will be no duplication of benefits and employees will not be deprived of any benefit which they are already availing. Therefore, comments / input on 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.

DA/As above.

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

Manager (Legal)
MEPCO H/Qs Multan

Copy (for)
1. Master File.

U.O No. 4726 CE/MEPCO/EA-II/PF-PMAP
Dated 26 APR 2018

MULTAN ELECTRIC & COMPANY LIMITED
Chief Director (Legal & Labour) Legal & Labour
Phone: 061-9220227 & 9210380-84 (Ext: 20
Mobile: 03
Email: legaldirectoratemepco@gmail.com
MEPCO HQ Khanewal Road Multan
770294, 9220304 & 9220344

No.27074-77/CE/Legal/MEPCO/DDL-Assistance Package

Dated: 14.03.2019

Deputy Director (HRM),
MEPCO Limited Multan.

Subject: - PM'S ASSISTANCE PACKAGE FOR FAMILIES WHO DIE DURING SERVICE

Reference: Your office letter No.27032-34/CE/MEPCO/EA-II/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.

DA/As above (Legal Opinion/Legal vetting along with Annexure-A)

14/03/2019

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

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

14/3

14/03/19

RAO MUHAMMAD IQBAL
M.A., LL.B., D.T.L., D.LL., Shari
Advocate Supreme Court Of Pak
Mob:0333-61

LEGAL ADVISOR:
Pakistan Railway- MEPCO (WAPDA) - GEPCO,
N.G.P.S.- S.N.G.P.L.- N.B.P.- Z.T.B.L.- Local Govt. Multan,

CHAMBER: 20-Upper Storey Zakariya Block Distt. Courts, Multan.
RESIDENCE: 63-Ilyas Town Behind Gulgasht Telephone Exchange Bosan Road, Multan. Tel:061-6524378

Ref. No. [illegible] Date 14/03/2019.

Chief Executive Officer,
MEPCO HQ Khanewal Road,
Multan.

Attention: D.G (HR&Admn)

Sub: **LEGAL OPINION/LEGAL VETTING UPON NEW AMENDED MEPCO POLICY DRAFT OF PRIME MINISTER'S PACKAGE FOR FAMILIES WHO DIE DURING SERVICE PREPARED BY THE MEPCO MANAGEMENT**

Ref: - Deputy Director (HRM) MEPCO Multan letter No.27032-34 Dated: 14.03.2019.

Respected Sir,

The new amended MEPCO Policy Draft of Assistance Package (Annexure-A) prepared by the MEPCO Management & the Comments of Finance Director on each and every point of new amended MEPCO Policy draft of Assistance package & statistical data prepared by Finance Department MEPCO Multan has been examined properly and thoroughly. Finance Department has elaborated the Financial Implication in detail, which would have to be borne by the Company, in case of implementation. There is no multiplicity of the benefits found in the new amended MEPCO Policy Draft of Assistance Package prepared by the MEPCO Management.

The terms and conditions of new amended MEPCO policy draft of Assistance Package prepared by MEPCO Management are not inconsistent with the Law of Country & there is no legal bar, complication & hindrance for implementation of same, so, as desired by MEPCO BOD, the new amended MEPCO Policy Draft Assistance Package (Annexure-A) prepared by the MEPCO Management is hereby legally vetted accordingly.

Submitted for kind perusal and information please.

DA/As above (Annexure-A)

Rao Muhammad Iqbal
Advocate Supreme Court
Multan

CC to:
1. Finance Director MEPCO HQ Multan.
2. Director (Legal) MEPCO HQ Multan.
3. Company Secretary MEPCO Multan.

Rao Muhammad Iqbal
Advocate Supreme Court
Multan

Item	In Service Death	Security Related Deaths	MEPCO Existing Policy	Proposed Amendment in Policy
Lump Sum Grant	Upto Rs.3.0 Million according to following scales:- BPS / Amount 1-4 / Rs.600,000 5-10 / Rs.900,000 11-15 / Rs.1,200,000 16-17 / Rs.1,500,000 18-19 / Rs.2,400,000 20 & above / Rs.3,000,000	Upto Rs.10 Million according to following scales:- BPS / Amount 1-15 / Rs.5 Million 17 / Rs.7 Million 18-19 / Rs.8 Million 20 & above / Rs.10 Million Rs.700,000/- to the officers / officials incapacitated and released from service for having become invalid as a result of injury in encounters / bomb blasts, riots / watch and ward duty or terrorist activity.	a). Rs. 250,000/- (Two& Five lac) Ex-Gratia grant on case to case basis upon accidental death. b). PEPCO Management has been allowed Financial Compensation with immediate effect to the families of Employees of PEPCO / its Corporate Entities who die in service as a result of Sensless Terrorism / Mine Blasts / Suicide related deaths, which is endorsed by Deputy Manager Corporate Accounts (Admn) MEPCO Multan as under:- BPS / Amount 1-15 / Rs. 500,000/- 16-19 / Rs. 1,000,000/- 20 & above / Rs. 1,500,000/-	As approved by MEPCO BOD, in service death upto 3 Million according to following scales. a. BPS / Amount 1-4 / Rs.600,000 5-10 / Rs.900,000 11-15 / Rs.1,200,000 16-17 / Rs.1,500,000 18-19 / Rs.2,400,000 20 & above / Rs.3,000,000 b. However, on official died during service working on live lines (fatal accident) will be paid Rs.2.5 Million only.
Pension	100% pension to the families of deceased employees as per their length of service and last pay drawn. In case of less than 10 years' service of the deceased employees, rate of minimum 10 years' service will be applicable.	100% pension to the families of deceased employees as per their length of service and last pay drawn. In case of less than 10 years' service of the deceased employees, rate of minimum 10 years' service will be applicable.	a). 75% of Gross Pension is applicable to the families of deceased employees on 10x years of more qualifying service on the basis of last pay drawn. b). For less than 05x years qualifying service but less than 10x years qualifying services, only gratuity will be paid @ 1½ basic pay x nos. of completed years as per Pension Rules, 1977 Chapter-V Clause-1. c). For less than 05x years qualifying service, nothing will be paid to the families of deceased employees.	As approved by MEPCO BOD, 100% pension to the families of the deceased employees as per their length of service and last pay drawn. In case of less than 10 years' service of the deceased employees, rate of minimum 10 years' service will be applicable.
Accommodation	Retention of official accommodation or payment of rent of hired house till the age of superannuation.	Retention of official accommodation or payment of rent of hired house till the age of superannuation.	As per Revised Allotment Policy (2009):- i. Widow of an employee who dies during service will be allowed to retain official / acquired residential accommodation already in possession for a period of two years after death of her husband.	As approved by MEPCO BOD, Retention of official accommodation or payment of rent of hired house till the age of superannuation.

RAO MUHAMMAD IQBAL
ADVOCATE HIGH COURT
20-ZAKARIYA BLOCK (SOUTH COURT)
MULTAN. C.C. No. 251

			ii. In case death [illegible] widow would be entitled to retain official residential accommodation already in possession for a period [illegible] years. iii. The above facility will stand withdrawn if the widow re-marriages	
Education	Free education to all the children of the deceased employees upto graduation in any public / government educational institution including expenses of tuition fee, books related material and living allowance etc.	Free education to all the children of the deceased employees upto graduation in any public / government educational institution including expenses of tuition fee, books related material and living allowance etc.	The children of a deceased employee are allowed Educational Scholarship @ Rs. [illegible] to Rs.[illegible]/- per annum (Rates are at P/A)	As approved by MEPCO BOD, free education to all the children of the deceased employees upto graduation in any public / government educational institution including expenses of tuition fee, books related material and living allowance etc.
Allotment of Plot	Payment of lump sum grant in lieu of plot subject to the condition that no plot had been allotted in the past as per scale given below:- BPS — Amount 1-8 — Rs.2 Million 9-16 — Rs.5 Million 17 & above — Rs.7 Million	Payment of lump sum grant in lieu of plot subject to the condition that no plot had been allotted in the past as per scale given below:- BPS — Amount 1-8 — Rs.2 Million 9-16 — Rs.5 Million 17 & above — Rs.7 Million	No payment is being made to the widow of employee died during the service or in case of death during an act of terrorism. However applications of widow of deceased MEPCO employees are being forwarded to Secretary WECHS Multan for allotment of plot in WAPDA Town Multan as per their own policy.	As approved by MEPCO BOD:- i. Payment of lump sum grant to widow / nominee of employees died in service in lieu of plot subject to the condition that no plot had been allotted in the past as per scale given below:- BPS — Amount 1-8 — Rs.2 Million 9-16 — Rs.5 Million 17 & above — Rs.7 Million ii. Payment of lump sum grant to widow / nominee of employees died as an act of terrorism in lieu of plot subject to the condition that no plot had been allotted in the past as per scale given below:- BPS — Amount 1-8 — Rs.2 Million 9-16 — Rs.5 Million 17 & above — Rs.7 Million
Employment	Employment for posts in BS-01 to BS-15 on two years contract without advertisement. Provided further that in-case the deceased employee is survived by two or more widows and / or children from these widows, right of contract appointment shall be decided in the following manner and order:-	Employment for posts in BS-01 to BS-15 on two years contract without advertisement. Provided further that in-case the deceased employee is survived by two or more widows and / or children from these widows, right of contract appointment shall be decided in the following manner and order:-	PEPCO management has been pleased to extend following facilitations / relaxations, as a measure of prompt support to the family of deceased employee, for employment of a widow on two years contract in case of in-service death of an employee in terms of Office Order referred above:	As approved by MEPCO BOD, Employment for posts in BS-01 to BS-15 on two years contract without advertisement. Provided further that in-case the deceased employee is survived by two or more widows and / or children from these widows, right of contract appointment shall be decided in the following manner and order:-

RAO M[illegible] IQBAL
ADVOCATE HIGH COURT
20-ZAKARIA [illegible] DISTRICT COURTS
MULTAN. C.C. No. 251

	a. The first widow or a child (18 years or above in age) from the first widow as soon as he / she attains age of 18 years but he / she has to exercise the option within the time period (one years from date of death) failing that; b. The right to contract appointment shall stand transferred to the 2nd widow or to a child (18 years or above in age) from the 2nd widow or to a child (18 years or above in age) from the 2nd widow or a minor child from the 2nd widow as soon as he / she attains age of 18 years but he / she has to exercise the option within two years of death. Note: Office Memorandum No. GM(HR)/HRD/1-548/2378-2400 dated 23.09.2010 & No. GM(HR)/HRD/A-693/2261-99 dated 03.07.2015 shall continue to be applicable in the same spirit.	a. The first widow or a child (18 years or above in age) from the first widow as soon as he / she attains age of 18 years but he / she has to exercise the option within the time period (one years from date of death) failing that; b. The right to contract appointment shall stand transferred to the 2nd widow or to a child (18 years or above in age) from the 2nd widow or to a child (18 years or above in age) from the 2nd widow or a minor child from the 2nd widow as soon as he / she attains age of 18 years but he / she has to exercise the option within two years of death. Note: Office Memorandum No. GM(HR)/HRD/1-548/2378-2400 dated 23.09.2010 & No. GM(HR)/HRD/A-693/2261-99 dated 03.07.2015 shall continue to be applicable in the same spirit.	a. If an eligible child is not available, the widow of a deceased employee who expires / is grant on or after 18.08.2006 while in service shall be offered employment on the same basis as a child of the deceased employee would have been offered employment. b. Exemption from prescribed Grades / Criterion of educational qualifications of widow while considering for the above-said category. c. General relaxation shall be available to the widow in the upper age limit upto 5 years. d. The authority competent for relaxation of the upper age limit for a widow upto 50 years shall be rest with BOD of the Company concerned / MD PEPCO on a case to case basis.	a. The first widow or a child (18 years or above in age) from the first widow as soon as he / she attains age of 18 years but he / she has to exercise the option within the time period (one years from date of death) failing that; b. The right to contract appointment shall stand transferred to the 2nd widow or to a child (18 years or above in age) from the 2nd widow or to a child (18 years or above in age) from the 2nd widow or a minor child from the 2nd widow as soon as he / she attains age of 18 years but he / she has to exercise the option within two years of death. Note: Office Memorandum No. GM(HR)/HRD/1-548/2378-2400 dated 23.09.2010 & No. GM(HR)/HRD/A-693/2261-99 dated 03.07.2015 shall continue to be applicable in the same spirit.
Marriage Grant	Marriage grant amounting to Rs.8 Lac on wedding of one daughter may be granted to family of deceased employees.	Marriage grant amounting to Rs.8 Lac on wedding of one daughter may be granted to family of deceased employees.	Marriage grant amounting to Rs. 200000/- per case is allowed on wedding of two daughters of a deceased employee	As approved by MEPCO BOD, in service or security related deaths cases:- Marriage grant amounting to Rs.8 Lac on wedding of one daughter may be granted to family of deceased employees.
Health	Free health facilities as per their entitlement during service.	Free health facilities as per their entitlement during service.	Cash Medical Allowance / medical facility is being provided to the widow and family of deceased employees as per their consent and entitlement.	Cash Medical Allowance / medical facility is being provided to the widow and family of deceased employees as per their consent and entitlement.
House Building Advance	In case of advance against salaries sanctioned by the competent authority, the unpaid balance to be waived-off as per prevailing procedure.	In case of advance against salaries sanctioned by the competent authority, the unpaid balance to be waived off as per prevailing procedure.	In case of advance against salaries sanctioned by the competent authority, the unpaid balance to be waived off as per prevailing procedure.	As approved by MEPCO BOD, in case of advance against salaries sanctioned by the competent authority, the unpaid balance to be waived off as per prevailing procedure.
Nomination of an Officer as Council	An officer of BS-17 or BS-18 may be nominated by respective office as Council who will be responsible for finalization / provision of all the facilities under the package, to the families of employees who die in service within one month of the incident.	An officer of BS-17 or BS-18 may be nominated by respective office as Council who will be responsible for finalization / provision of all the facilities under the package, to the families of employees who die in service within one month of the incident.		As approved by MEPCO BOD, An officer of BS-17 or BS-18 may be nominated by respective office as Council who will be responsible for finalization / provision of all the facilities under the package, to the families of employees who die in service within one month of the incident.

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ADVOCATE SUPREME COURT
20-ZAKARIYA BLOCK DISTT. COURTS
MULTAN. C.C. No. 251

6

Special Lump Sum Grant from Welfare Fund

Nil

A special lump sum grant from Welfare Fund ranging from Rs. 200,000 to Rs. 500,000/-

Sr #	Pay Scale (BPS)	Lump Sum Grant
1	1-10	Rs.200,000
2	11-15	Rs.300,000
3	16-19	Rs.400,000
4	20 & above	Rs.500,000

No lump sum grant from Welfare Fund is being allowed

As approved by MEPCO BOD, only for security related death:
A special lump sum grant from Welfare Fund ranging from Rs. 200,000 to Rs. 500,000/-

Sr #	Pay Scale (BPS)	Lump Sum Grant
1	1-10	Rs.200,000
2	11-15	Rs.300,000
3	16-19	Rs.400,000
4	20 & above	Rs.500,000

Monthly Welfare Grant

Sr #	Pay Slabs Minimum	Pay Slabs Maximum	Grant
1	upto	5000	4000
2	5001	5500	4150
3	5501	6000	4300
4	6001	6500	4450
5	6501	7000	4600
6	7001	7500	4750
7	7501	8000	4900
8	8001	8500	5050
9	8501	9000	5200
10	9001	9500	5350
11	9501	11000	5600
12	11001	13000	5900
13	13001	15000	6200
14	15001	17000	6500
15	17001	19000	6800
16	19001	21000	7100
17	21001	23000	7400
18	23001	25000	7700
19	25001	27000	8000
20	27001	29000	8300
21	29001	31000	8600
22	31001	33000	8900
23	33001	35000	9200
24	35001	37000	9500
25	37001	39000	9800
26	39001 & above		10100

Sr #	Pay Slabs Minimum	Pay Slabs Maximum	Grant
1	upto	5000	8000
2	5001	5500	8300
3	5501	6000	8600
4	6001	6500	8900
5	6501	7000	9200
6	7001	7500	9500
7	7501	8000	9800
8	8001	8500	10100
9	8501	9000	10400
10	9001	9500	10700
11	9501	11000	11200
12	11001	13000	11800
13	13001	15000	12400
14	15001	17000	13000
15	17001	19000	13600
16	19001	21000	14200
17	21001	23000	14800
18	23001	25000	15400
19	25001	27000	16000
20	27001	29000	16600
21	29001	31000	17200
22	31001	33000	17800
23	33001	35000	18400
24	35001	37000	19000
25	37001	39000	19600
26	39001 & above		20200

For Officers from BPS-17 and above

Pay Slabs	Monthly Grant
1301-1400	1020
1401-1500	1080
1501-1600	1140
1601-1700	1200
1701-1800	1260
1801-1900	1320
1901-2000	1380
2001-2100	1440
2101-2200	1500
2201-2300	1560
2301-2400	1620
2401-2500	1680
2501-2600	1740
2601-2700	1800
2701-2800	1860
2801-2900	1920
2901-3000	1980
3001-3100	2040
3101-3200	2100
3201-3300	2160
3301-3400	2220
3401-3500	2280

As approved by MEPCO BOD:-

Sr #	Pay Slabs Minimum	Pay Slabs Maximum	IN service death Grant	IN security related death Grant
1	upto	5000	4000	8000
2	5001	5500	4150	8300
3	5501	6000	4300	8600
4	6001	6500	4450	8900
5	6501	7000	4600	9200
6	7001	7500	4750	9500
7	7501	8000	4900	9800
8	8001	8500	5050	10100
9	8501	9000	5200	10400
10	9001	9500	5350	10700
11	9501	11000	5600	11200
12	11001	13000	5900	11800
13	13001	15000	6200	12400
14	15001	17000	6500	13000
15	17001	19000	6800	13600
16	19001	21000	7100	14200
17	21001	23000	7400	14800
18	23001	25000	7700	15400
19	25001	27000	8000	16000
20	27001	29000	8300	16600
21	29001	31000	8600	17200
22	31001	33000	8900	17800
23	33001	35000	9200	18400

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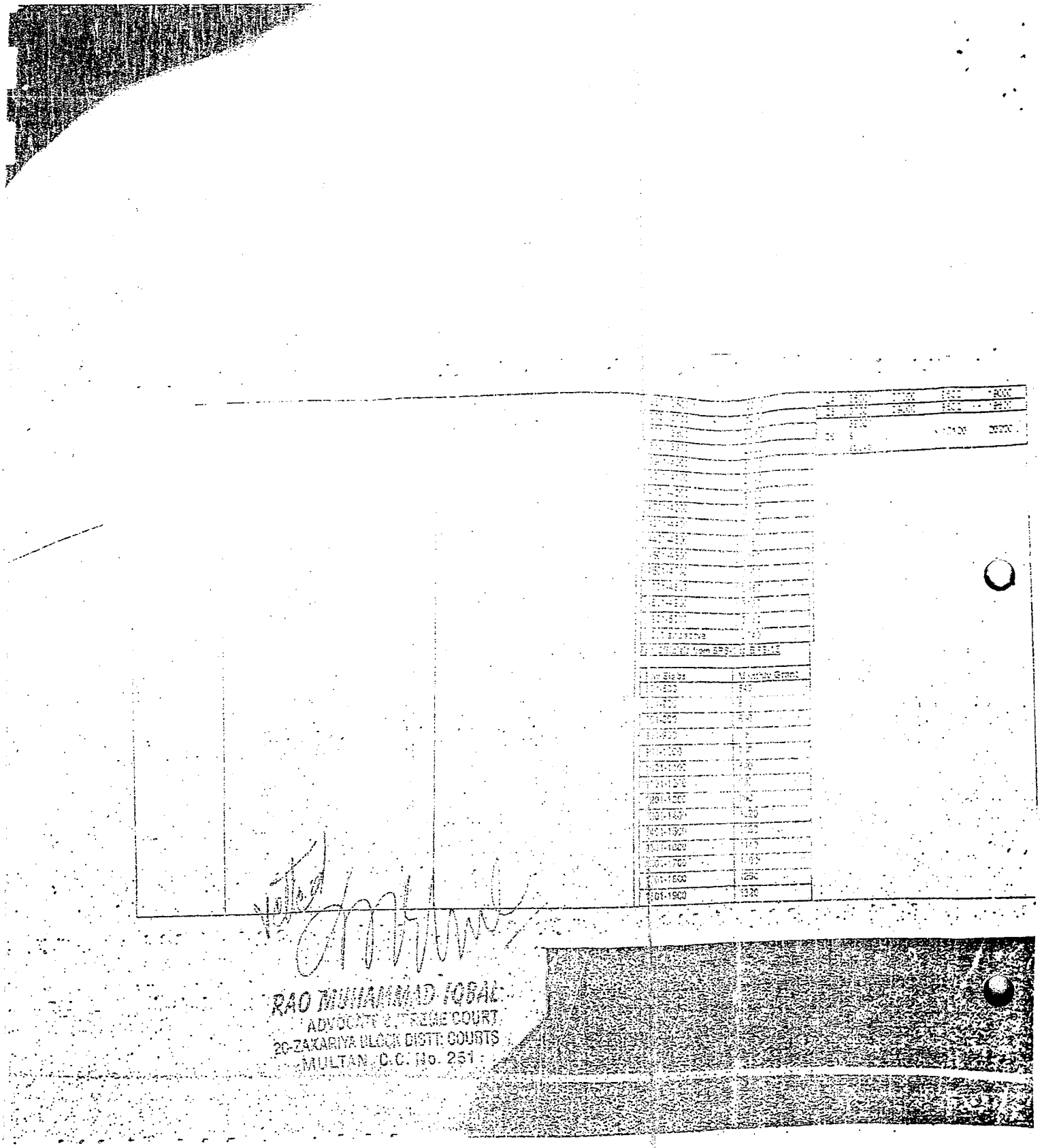
ADVOCATE SUPREME COURT
20-ZAKARIA BLOCK DISTT. COURTS
MULTAN. C.C. No. 251



RAO MUHAMMAD IQBAL
ADVOCATE SUPREME COURT
20-ZAKARIYA BLOCK DISTT COURTS
MULTAN C.C. No. 251

Prerequisits for facilitation of family of deceased Employees	In case of in service death of an employee, the following pre-requisites must immediately be fulfilled by the concerned office so that the family of the deceased employee may be facilitated without any delay:- a. Immediate submission of family pension case. b. Application for Anticipatory Pension (60% of the total pension). Besides as a corrective approach respective offices must observe the following practices regarding their employees:- a. Up to date list of family members of each employee for pension purpose be maintained beforehand. b. Nomination for Employees Provident Fund must be ensured for each employee in his / her life.	In case of in service death / security related death of an employee, the following pre-requisites must immediately be fulfilled by the concerned office so that the family of the deceased employee may be facilitated without any delay:- a. Immediate submission of family pension case. b. Application for Anticipatory Pension (60% of the total pension). Besides as a pro-active approach respective offices must observe the following practices regarding their employees:- a. Up to date list of family members of each employee for pension purpose be maintained beforehand. b. Nomination for Employees Provident Fund must be ensured for each employee in his / her life.		As approved by MEPCO BOD, in case of in service death / security related death of an employee, the following pre-requisites must immediately be fulfilled by the concerned office so that the family of the deceased employee may be facilitated without any delay:- a. Immediate submission of family pension case. b. Application for Anticipatory Pension (60% of the total pension). Besides as a pro-active approach respective offices must observe the following practices regarding their employees:- a. Up to date list of family members of each employee for pension purpose be maintained beforehand. b. Nomination for Employees Provident Fund must be ensured for each employee in his / her life.
EP Fund	Only payable amount of EP Fund shall be paid to the family of deceased employee.	Only payable amount of EP Fund shall be paid to the family of deceased employee.	Follow the three position already in vogue for the payment of EP Fund to the family of the deceased employee.	As approved by MEPCO BOD, Only payable amount of EP Fund shall be paid to the family of deceased employee.

RAO MUHAMMAD IQBAL
ADVOCATE HIGH COURT
20-ZAKARIA CHAMBERS DISTT. COURTS
MULTAN. C.C. No. 251

- 20 -

Subject: PRIME MINISTER'S ASSISTANCE PACKAGE FOR FAMILIES OF GOVERNMENT EMPLOYEES WHO DIE IN SERVICE

Ref: - PUC (CP-) / PF-PMAP(Vol-II)

37. 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, Lahore letter No. GM(HR)/HRD/A-332/4050-75 dated 04.11.2016.

38. MEPCO BOD in its 134th 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 (F/A) adopted the said Assistance Package and further desired to prepare 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 24.04.2018 (F/B).

39. The new amended MEPCO Policy duly vetted 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 perusal of CEO MEPCO. So, the same may be circulated / disseminated to all lower formations under MEPCO for its implementation in true letter and spirit or otherwise, please.

AD (Admin)
26/4

29/4/19

40. DD (HRM)

41. DG (HR&A)

42. CEO

Pl put up for BOD along with financial implications for final approval

1701
0/4/19

43. DG (HR)

44. DM (HRM)

45. Asstt

MULTAN ELECTRIC POW[illegible]PANY

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

[illegible]e Officer
[illegible]s, Multan

Dated 14 MAY 2019

No 4453 CE/MEPCO/EA-II/

Finance Director,
MEPCO H/Qs Multan.

Attention: Assistant Manager (CP&C)

SUBJECT: - PRIME MINISTER'S ASSISTANCE PACKAGE FOR FAMILIES OF GOVERNMENT EMPLOYEES WHO DIE IN SERVICE.

Copies of this office order No. 89-I/46059-81 dated: 24.04.2018 regarding adoption of Prime Minister's Assistance Package for families 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 up this case alongwith financial implication before BOD 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

DA/as above

See before 13th

DD (HRM)

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

Copy to:-

1. Deputy Manager (Safety) MEPCO H/Qs 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 Leader ERP HCM Module, ERP Floor MEPCO H/Qs Multan for similar action.
3. Master File.

Letters - 2019

MEPCO MULTAN ELECTRIC POWER

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

OFFICE OF T
FINANCE DIRE

No. /FDM/BS/Corp-Budget/ 4586

Date: 1.9

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

Subject: - PRIME MINISTER'S ASSISTANCE PACKAGE FOR FAMILIES OF GOVERNMENT EMPLOYEES WHO DIE IN SERVICE

Ref: - Deputy Director (HRM) MEPCO HQ letter No.4144/CE/MEPCO/EA-II dated: 22.07.2020 and No.11823 CE/MEPCO/EA-II dated: 07.08.2020

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

One-time payment	Rs.	2,044.611 (m)
Subsequent Annual Impact	Rs.	340.029 (m)

The calculation is given below.

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

Rs. In Millions

BPS	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 in case of fatal accident on live lines (fatal accident) @ Rs 2.500 (Million)

Rs. In Millions

No. of Fatal accidents of MEPCO Employees From 04-11-2016 to date	Rate of Lump Sum Payment per Employee	Total Amount
34	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

The additional one time payment is estimated as Rs.61.528 (M) and subsequent annual additional impact is estimated as Rs.32.391 (m)

3. Accommodation

Sr. No.	BPS	No. of Employees	Entitlement	Standard Rent	Per Month Rent	Annual Projection	3 Years Projection
1	1-4	56	F-Type	2,500	140,000	1,680,000	5.040
2	5-10	165	E-Type	3,625	598,125	7,177,500	21.532
3	11-16	133	D-Type	6,563	872,879	10,474,548	31.423
4	17-18	13	C-Type	20,700	269,100	3,229,200	9.688
Total		367				22,561,248	67.684

DM(HRM)

It is assumed that payment against accommodation will be allowed for previous period.

CEO MEPCO
DY # 5999
02 SEP 2020
MAIN DIARY SECTION

4. Education

The number of children, class and estimated cost of education per child of deceased employees may please be provided by HR & Admn. Directorate.

5. Allotment of Plot

As approved by MEPCO BOD, payment of lump sum grant to widow / nominee died in service in lieu of plot.

Rs. In Millions

BPS	No. of Employees	Lump Sum Grant	Total Amount
1-8	132	2.000	264.000
9-16	222	5.000	1,110.000
17& above	13	7.000	91.000
Total	367		1,465.000

6. **Employment**

No additional expense / implication is involved as there is no change in existing policy regarding employment.

7. **Marriage Grant**

As approved by MEPCO BOD marriage grant amounting to Rs.3 Lac on wedding of one daughter.

Rs. In Millions

BPS	No. of Employees	Lump Sum Grant	Total Amount	Annual Impact
1-18	367	0.3000	293.60	78.290

Note: It is assumed that deceased employee may have at least one unmarried daughter

8. **Health**

No additional implication is calculated as the health facility as 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 beneficiaries at the existing/proposed rate. Hence 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

Subject: PRIME MINISTER'S ASSISTANCE PACKAGE FOR FAMILIES OF GOVERNMENT EMPLOYEES WHO DIE IN SERVICE

Ref:- PUC (CPP) / PP-PMAP (Vol-II)

99 It is submitted that revision of Assistance Package for families of deceased employee who die during service was issued by DG (HR) PEC 2nd WAPDA House, Lahore letter No. GM (HR)/HRD/A-332-1050-75 dated 04.11.2016.

100 MEPCO BOD in its 134th meeting held on 20.03.2018 against agenda item No.5(v) notified by Company Secretary MEPCO Multan letter No.24090-414 dated 02.04.2018 (F/A) adopted the said Assistance Package and further desired to prepare 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/46059-61 dated 24.04.2018 (F/B).

101 It is further added that large Nos. of applications have been received from bereaved families of deceased employees for grant of all facilities as per said Assistance Package and lying pending in this office due to non-implementation of said package.

102 The new amended MEPCO Policy duly vetted by Director (Legal) MEPCO is placed at (F/C) as per MEPCO BOD decision circulated vide this office order dated 24.04.2018 was received and put up for perusal of CEO MEPCO vide NP-37 to NP-44 and the then CEO MEPCO vide NP-42 given his remarks "pl put up in BOD alongwith financial implication for final approval".

103 Finance Director MEPCO was requested to provide the financial implication for adoption / implementation of said package the same has been received and placed at (F/D).

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

I. The new amended MEPCO policy duly vetted by Director (Legal) MEPCO placed at (F/2) as per MEPCO BOD decision taken in 134th meeting held on 20.03.2018 and circulated vide this office order No. 89-I/46059-61 dated: 24.04.2018 may be circulated / disseminated to all lower formations under MEPCO for its implementation in true letter & spirit.

OR

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

10/10/2020

105 Submitted for perusal & further orders of CEO MEPCO, please.

106 D.D (HRM) BOD meeting vide F/A already recorded the Policy. Submitted for Perusal / further orders of CEO MEPCO. 9/10. AD(Admn) 09/10

107 Director (HRM) Para 104 above is for consideration and decision, please. 09/10

108. DG (HR,M) Whether the BOD MEPCO approved PM Assistance Package was notified or not ? 12/10/20. 14/10

109. Dir (HRM) P.u next 15/10/20

110. DD (HRM) P.T.O

111 Subjected Package has already been notified vide O/O dated 26.04.2018 (F/8)

112 NP # 104 (i) OR (ii) submitted for Perusal pl.

[signature] 19/10

113 Dir (HRM)

[signature] 21/10/20.

114. DG (HR, A)

The previous order in this regard was conditional subject to preparing an 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 F.D. Also, keep in view direction of PEPCO regarding inclusion of cost in Tariff Petition and approval of NEPRA for the budget.

[signature] 29/10/20

115 Dir (HRM)

P.U.T as above.

[signature] 29/10/20.

116. DD (HRM)

[signature] 2/11

117 AD (HRM)

[signature]

18 Dir (F) No. 11780 Dated 04-11-020 w/o official

[signature] 20-11-020

19 F-[illegible]

PYA

PPP ADJUSTMENT

(Supporting Documents)

MULTAN ELECTRIC POWER COMPANY LTD.

QUARTERLY ADJUSTMENT OF 4th QUARTER OF FY 2019-20 (APRIL 2020 TO JUNE 2020)

Description	APRIL 2020					MAY 2020					JUNE 2020					TOTAL (Mln Rs.)
	Ref. Rate (Rs./KWh)	Units Purchased (MWh)	Amount Recovered (Mln Rs.)	Actual Billed (Mln Rs.)	(Over)/ Under Recovered (Mln. Rs.)	Ref. Rate (Rs./KWh)	Units Purchased (MWh)	Amount Recovered (Mln Rs.)	Actual Billed (Mln Rs.)	(Over)/ Under Recovered (Mln. Rs.)	Ref. Rate (Rs./KWh)	Units Purchased (MWh)	Amount Recovered (Mln Rs.)	Actual Billed (Mln Rs.)	(Over)/ Under Recovered (Mln. Rs.)	
Variable O&M	0.3218	1,473.55	474.19	382.83	(91.36)	0.2876	2,128.64	612.20	554.61	(57.59)	0.2695	2,289.78	614.81	854.85	240.04	92
Capacity Charges	5.1746	1,473.55	7,625.02	13,303.92	5,678.90	4.5033	2,128.64	9,587.7[illegible]	14,880.[illegible]	5,293.5[illegible]	4.2273	2,289.78	9,679.00	14,260.28	4,581.[illegible]	15,556
Use of System Charges	0.3362	1,473.55	495.41	597.71	102.3[illegible]	0.29[illegible]	2,128.64	628.38	665.4[illegible]	37.07	0.2883	2,289.78	660.14	932.6[illegible]	272.5[illegible]	412
Total					5,689.67					5,273.00					5,103.12	16,066
IMPACT OF LOSSES																(482)
TOTAL Quarterly Adjustment																15,584

	Apr-20	May-20	Jun-20
Impact of Losses on FCA			
FCA Determined	(0.4482)	(0.6223)	(0.5372)
	221.03	319.30	343.47
	(99.07)	(198.70)	(184.51)

Calculation of FPA	Apr-20	May-20	Jun-20
Reference	5.2359	5.0457	5.1130
Actual	4.7877	4.4234	4.5758
FCA Requested by CPPA-G	(0.4482)	(0.6223)	(0.5372)

MEPCO 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/Qtr-Adj/ 21194-98

Date 12 FEB 2021

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

Subject: - **ADDENDUM TO QUARTERLY POWER PURCHASE PRICE ADJUSTMENT FOR 2nd QUARTER 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 2nd 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 2nd Quarterly Tariff Adjustment for FY 2020-21 (Annex-A) as per standard guidelines which comes to Rs.6,360 Million.

MEPCO requests the Authority to allow the Quarterly Adjustment of Rs. 6,360 Million for 2nd quarter of FY 2020-21.

DA/As above.

ALI MUHAMMAD
Finance Director

CC to:

1. 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

Annex-A

MULTAN ELECTRIC POWER COMPANY LTD.

Power Purchase Price Periodic Adjustment

For the 2nd Quarter of FY 2020-21 (October 2020 to December 2020)

DESCRIPTION	OCTOBER 2020					NOVEMBER 2020					DECEMBER 2020					TOTAL (Mln. Rs.)
	Reference Rate (Rs./KWh)	Units Purchased (MKWh)	Amount Recovered (Mln Rs.)	Actual Billed (Mln Rs.)	(Over)/ Under Recovered (Mln. Rs.)	Reference Rate (Rs./KWh)	Units Purchased (MKWh)	Amount Recovered (Mln Rs.)	Actual Billed (Mln Rs.)	(Over)/ Under Recovered (Mln. Rs.)	Reference Rate (Rs./KWh)	Units Purchased (MKWh)	Amount Recovered (Mln Rs.)	Actual Billed (Mln Rs.)	(Over)/ Under Recovered (Mln. Rs.)	
Variable O&M	0.2402	1,599.01	384.08	761.29	377.21	0.2769	1,003.18	227.62	250.39	22.77	0.2838	972.08	275.88	305.11	30.23	430
Capacity Charges	5.7460	1,599.01	9,187.30	9,056.36	(131.54)	7.4189	1,003.18	7,442.57	9,982.00	2,539.42	6.4232	972.08	6,244.84	9,310.20	3,066.41	5,474
Use of System Charges	0.3624	1,599.01	579.48	745.65	166.17	0.6270	1,003.18	438.70	604.98	166.29	0.3909	972.08	380.37	647.30	262.48	596
TOTAL					391.84					2,698.89					3,360.12	6,450

Impact Of Losses on FCA	410
TOTAL PPP Adjustment (Mln. Rs.)	6,860

IMPACT OF LOSSES ON FCA

Description	Oct-20	Nov-20	Dec-20
FCA Determined	0.2925	0.7696	1.5359
Losses Allowed (MKWH)	239.85	150.48	145.81
Impact (Million Rs.)	70.16	115.81	223.95

FINANCE DIRECTOR,
MEPCO

Annex. A

MULTAN ELECTRIC POWER COMPANY LTD.

QUARTERLY ADJUSTMENT OF 1st QUARTER OF FY 2020-21 (JUL-SEP. 2020) (AFTER INCORPORATION OF DETERMINED FCA 09/2020)

Description	JULY 2020 Ref. Rate (Rs./kWh)	JULY 2020 Units Purchased (MWh)	JULY 2020 Amount Recovered (Mln Rs.)	JULY 2020 Actual Billed (Mln Rs.)	JULY 2020 (Over)/ Under Recovered (Mln. Rs.)
Variable O&M	0.2380	2,483.16	594.22	702.23	108.02
Capacity Charges	4.7420	2,483.16	11,777.31	12,275.86	498.57
Use of System Charges	0.2844	2,483.16	706.21	838.79	132.38
Total					738.67

Description	AUGUST 2020 Ref. Rate (Rs./kWh)	AUGUST 2020 Units Purchased (MWh)	AUGUST 2020 Amount Recovered (Mln Rs.)	AUGUST 2020 Actual Billed (Mln Rs.)	AUGUST 2020 (Over)/ Under Recovered (Mln. Rs.)
Variable O&M	0.2332	2,848.29	817.58	871.25	[illegible]
Capacity Charges	4.8759	2,848.29	13,887.75	16,408.88	2,499.80
Use of System Charges	0.3054	2,848.29	869.75	859.11	56.30
Total					3,749.77

Description	SEPTEMBER 2020 Ref. Rate (Rs./kWh)	SEPTEMBER 2020 Units Purchased (MWh)	SEPTEMBER 2020 Amount Recovered (Mln Rs.)	SEPTEMBER 2020 Actual Billed (Mln Rs.)	SEPTEMBER 2020 (Over)/ Under Recovered (Mln. Rs.)	TOTAL (Mln Rs.)
Variable O&M	[illegible]	2,181.[illegible]	485.[illegible]	[illegible]	[illegible]	[illegible]
Capacity Charges	[illegible]	[illegible]	10,108.[illegible]	11,2[illegible]	[illegible]	[illegible]
Use of System Charges	[illegible]	2,181.[illegible]	644.[illegible]	[illegible]	[illegible]	[illegible]
Total					1,451.87	[illegible]

IMPACT OF LOSSES	856
TOTAL Quarterly Adjustment	6,800

Impact of Losses on FCA

Jul-20	Aug-20	Sep-20
372.47	397.24	327.25
311.98	191.79	364.50

Finance Director
Mepco Ltd. Multan.

MEPCO 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/Qtr-Adj/ 14572-81

Date: 16 DEC 2020

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

Subject: - ADDENDUM TO QUARTERLY POWER PURCHASE PRICE 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 1st 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 1st 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 1st quarter of FY 2020-21.

DA/As above.

ALI MUHAMMAD
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

FINANCIAL STATEMENTS

(FY 2017-18 TO 2019-20)

Riaz Ahmad & Company
Chartered Accountants

MULTAN ELECTRIC POWER COMPANY LIMITED

FINANCIAL STATEMENTS WITH ACCOMPANYING INFORMATION

30 JUNE 2020

A member of Nexia International

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.

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.

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.

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.

Riaz Ahmad & Co.
RIAZ AHMAD & COMPANY
Chartered Accountants

Faisalabad

Date: 06 OCT 2020

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

	NOTE	2020 RUPEES	2019 RUPEES Restated	2018 RUPEES Restated
EQUITY AND LIABILITIES				
SHARE CAPITAL AND RESERVES				
Authorized share capital				
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
Issued, subscribed and paid up share capital	3	10,823,636,048	10,823,636,048	10,823,636,048
Deposit for shares	4	31,337,632,169	31,337,632,169	30,590,260,624
Accumulated loss		(127,536,887,153)	(133,587,076,083)	(106,192,058,629)
Total equity		(85,375,618,936)	(91,425,807,866)	(64,778,161,957)
LIABILITIES				
NON-CURRENT LIABILITIES				
Long term financing	5	8,117,630,545	8,811,426,965	9,234,627,888
Staff retirement benefits	6	80,582,683,869	79,175,417,563	70,394,154,272
Long term security deposits	7	10,179,383,631	9,179,842,474	8,164,534,805
Receipt against deposit works	8	25,803,025,352	20,722,976,017	20,448,934,978
Deferred credit	9	59,724,026,331	57,194,876,289	52,220,167,587
Deferred mark-up		-	-	626,688,464
		184,406,749,728	175,084,539,308	161,089,107,994
CURRENT LIABILITIES				
Trade and other payables	10	174,852,741,194	123,000,632,069	116,154,515,079
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

	NOTE	2020 RUPEES	2019 RUPEES	2018 RUPEES
ASSETS				
NON-CURRENT ASSETS				
Property, plant and equipment	13	117,672,020,684	108,889,817,854	100,028,337,227
Intangible asset	14	-	10,101,690	27,397,086
Long term advances	15	81,394,604	80,630,425	76,959,810
Long term deposits	16	49,185	49,185	49,185
		117,753,464,473	108,980,599,154	100,132,743,308
CURRENT ASSETS				
Stores and spare parts	17	6,328,680,702	8,103,425,849	5,763,585,227
Trade debts	18	51,201,853,926	29,489,190,947	39,154,330,754
Loans and advances	19	320,793,215	349,920,881	411,795,054
Other receivables	20	94,228,676,437	57,164,705,281	57,697,402,536
Tax refunds due from Government	21	4,621,111,602	6,679,287,571	10,673,864,099
Accrued interest		157,817,812	103,482,195	48,504,557
Cash and bank balances	22	17,367,926,676	10,457,887,798	10,220,738,570
		174,226,860,370	112,347,900,522	123,970,220,797
TOTAL ASSETS		291,980,324,843	221,328,499,676	224,102,964,105

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

CHIEF EXECUTIVE OFFICER

DIRECTOR

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

	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

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	5,674,245,735	(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

DIRECTOR

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
	----------	----------	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	-	-	375,943,195	375,943,195
Other comprehensive income for the year	-	-	5,674,245,735	5,674,245,735
Total comprehensive income for the year	-	-	6,050,188,930	6,050,188,930
Balance as at 30 June 2020	10,823,636,048	31,337,632,169	(127,536,887,153)	(85,375,618,936)

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 2020

	NOTE	2020 RUPEES	2019 RUPEES
CASH FLOWS FROM OPERATING ACTIVITIES			
Cash generated from operations	31	12,860,153,660	7,901,805,194
Finance cost paid		(4,905,299)	(4,452,579)
Staff retirement benefits paid		(4,469,675,503)	(4,329,892,086)
Payment for Fund contribution regarding pension obligation		(681,651,671)	(160,224,720)
Net decrease / (increase) in long term advances		3,759,420	(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		(13,886,727,969)	(13,439,008,582)
Profit on bank deposits received		1,566,162,096	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		-	554,481,341
Repayment of long term financing		(38,108,009)	(74,158,360)
Consumers' security deposits received		999,541,157	1,015,307,669
Receipt against deposit works-net		10,561,490,996	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)		17,367,926,676	10,457,887,798

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

CHIEF EXECUTIVE OFFICER

DIRECTOR

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 benchmarks reform' refers to the market-wide reform of an interest rate benchmark including its replacement with an alternative 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 de-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 occurrence 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 in equity, respectively.

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 de-recognition 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 de-recognition 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 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

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 OF SHARES	2019 NUMBER 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.

5. LONG TERM FINANCING

	2020 RUPEES	2019 RUPEES
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	2,168,842,944
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
	13,264,073,790	13,264,073,790
Unsecured		
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 portion 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 6.8% 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 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 6.8% 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 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 commencing after 18 months of commercial operation date of the project which is 10 March 2017. The overdue amount of principal aggregates to Rupees 1.111 million (2019: 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:

	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)	(4,071,529,845)	(104,237,642)	(282,216,551)	(4,469,675,503)
Contribution made	-	(681,651,671)	-	-	(681,651,671)
Balance as at 30 June 2020	8,894,496,626	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)	631,702,722	6,795,636,027	330,036,560	921,471,585	8,678,846,894
Remeasurement recognized in other 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	65,322,228,340	3,356,447,248	3,806,464,334	79,175,417,564

6.1.1 The amount of pension obligation recognized in the statement of financial position is as follows:

	2020	2019
	RUPEES	RUPEES
Present value of defined benefit obligations	66,714,371,425	66,802,556,973
Fair 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:		
- Total employer's contributions		
(i) Employer's contributions	681,651,671	160,224,719
(ii) Employer's direct Benefit payments	4,753,181,506	3,939,898,971
- Benefit payments from Plan	(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

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

	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	969,242,626	9,176,537,195	479,127,622	531,476,628	11,156,384,071
Actuarial gains	-	-	-	(226,589,445)	(226,589,445)
Net charge for the year	1,236,313,088	10,074,662,763	612,437,422	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 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	303,186,391	6,822,920,823
Actuarial losses	-	-	-	564,161,389	564,161,389
Net charge for the year	631,702,722	6,795,636,027	330,036,560	921,471,585	8,678,846,894

6.3 Remeasurement recognized in other comprehensive income:

	30 June 2020				
	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
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
Current service cost	267,070,462	898,125,568	133,309,800	4,538,758	1,303,044,588
Interest cost	969,242,626	9,176,537,195	479,127,622	531,476,628	11,156,384,071
Benefits paid	(11,691,465)	(4,071,529,845)	(104,237,642)	(282,216,551)	(4,469,675,503)
Remeasurements	979,597,361	(6,278,116,187)	(375,726,909)	-	(5,674,245,735)
Actuarial gains	-	-	-	(226,589,445)	(226,589,445)
Contribution made	-	(681,651,671)	-	-	(681,651,671)
Balance as at 30 June 2020	8,894,496,626	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
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	303,186,391	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	65,322,228,340	3,356,447,248	3,806,464,334	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.

6.6 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	Low	Low	Low
Expected charge to the statement of profit or loss for the next financial year (Rupees)	1,114,515,418	6,935,019,573	468,366,068	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	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

6.7 Sensitivity analysis for actuarial assumptions:

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

	30 June 2019			
	Free medical benefits	Pension	Free electricity benefits	Compensated absences
Discount rate	1.00%	1.00%	1.00%	1.00%
Increase in assumption (Rupees)	(1,103,055,655)	(4,617,905,548)	(464,046,472)	(373,200,523)
Decrease in assumption (Rupees)	1,332,236,830	12,644,723,197	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)
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 (Rupees)	-	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

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 1,258.952 million) is kept in separate bank accounts maintained in respect of security deposits received.

8. RECEIPT AGAINST DEPOSIT WORKS

	2020 RUPEES	2019 RUPEES
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.

9. DEFERRED CREDIT

	2020 RUPEES	2019 RUPEES
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 RUPEES	2019 RUPEES
10.	**TRADE AND OTHER PAYABLES**		
	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	115,666,435	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	1,692,118,856
	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	1,692,118,856	1,692,118,856
Provision for the year (Note 26)	86,942,068	-
At the end of the year	1,779,060,924	1,692,118,856

		2020 RUPEES	2019 RUPEES Restated
11.	**ACCRUED MARK-UP**		
	Foreign re-lent loans	175,152,313	204,553,143
	Cash development loan (Note 11.1)	86,858,135	68,309,832
	Overdue mark-up on foreign re-lent and cash development loans	10,526,628,716	9,020,104,005
		10,788,639,164	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 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 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 (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 filed 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 filed 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 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. 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 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 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 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)). 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 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, 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 RUPEES	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	8,140,108,075	8,562,460,880
		19,039,511,069	19,724,121,176
	Less:		
	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 operating fixed assets	3,975,209,944	8,795,912,542

13.2 OPERATING FIXED ASSETS

	Land -Freehold	Land -Leasehold	Buildings on freehold land	Office equipment	Distribution equipment	Other plant and equipment	Vehicles	Total
	(RUPEES)							
At 30 June 2018								
Cost	358,679,002	2,277,338	4,036,180,530	565,703,381	123,981,113,872	509,950,673	1,019,094,116	130,472,998,912
Accumulated depreciation	-	(790,164)	(983,983,732)	(270,653,629)	(39,265,641,728)	(311,702,375)	(773,550,353)	(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	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
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
At 30 June 2019								
Cost	395,856,434	2,277,338	4,336,853,739	617,569,902	137,058,873,523	861,421,268	1,022,590,216	144,295,442,420
Accumulated depreciation	-	(790,164)	(1,066,248,893)	(317,600,240)	(43,750,678,510)	(351,223,311)	(818,486,442)	(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	-	-	248,640,822	16,368,405	9,388,284,352	78,052,335	38,387,311	9,769,733,225
Depreciation charge	-	-	(87,523,125)	(52,115,502)	(4,874,010,566)	(69,690,906)	(44,923,252)	(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	395,856,434	2,277,338	4,585,494,561	633,938,307	146,447,157,875	939,473,603	1,060,977,527	154,065,175,645
Accumulated depreciation	-	(790,164)	(1,153,772,018)	(369,715,742)	(48,624,689,076)	(420,914,217)	(863,409,694)	(51,433,290,911)
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
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, 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.

		2020 RUPEES	2019 RUPEES
13.3	**Depreciation charge for the year has been allocated as follows:**		
	Operating cost	5,121,211,315	4,693,124,291
	Capital work-in-progress (Note 13.1.3)	7,052,036	5,581,288
		5,128,263,351	4,698,705,579
14.	**INTANGIBLE ASSET**		
	Computer Softwares		
	Opening book value	10,101,690	27,397,086
	Amortization charged during the year	(10,101,690)	(17,295,396)
	Closing book value	-	10,101,690
	Cost	86,476,981	86,476,981
	Accumulated amortization	(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
	81,394,604	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	5,939,215,726	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

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:

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
	62,669,478,427	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

19.	**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
20.	**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 (Note 20.13)	3,988,253,868	-
	Duties, charges and taxes (Note 20.14)	-	-
	Receivable against damaged items during warranty period	41,007,873	38,096,625
	Others	108,084,775	90,071,962
		94,228,676,437	57,164,705,281

		2020 RUPEES	2019 RUPEES
20.1	**Due from associated companies / undertakings**		
	Jamshoro Power Company Limited (GENCO-I)	2,195,004	1,556,133
	Central Power Generation Company Limited (GENCO-II)	239,247,169	293,995,215
	Northern Power Generation Company Limited (GENCO-III)	954,432,843	976,059,922
	Lakhra Power Generation Company Limited (GENCO-IV)	949,483	571,003
	Lahore Electric Supply Company Limited (LESCO)	386,439,776	416,582,705
	Quetta Electric Supply Company Limited (QESCO)	79,092,350	68,769,763
	Islamabad Electric Supply Company Limited (IESCO)	79,159,620	79,450,779
	Peshawar Electric Supply Company Limited (PESCO)	451,296,860	454,627,978
	WAPDA Current Account	997,648,536	947,323,847
	WAPDA Welfare Fund	321,078,920	298,356,649
		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 Rupees 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 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)
		-	-

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	2,551,409,801	1,868,796,960
	Sales tax	2,069,701,801	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**		
	Gross sales	233,231,503,470	193,456,721,670
	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.

		2020 RUPEES	2019 RUPEES
26.	**OPERATING EXPENSES EXCLUDING DEPRECIATION**		
	Salaries, wages and other benefits	9,543,846,206	9,174,535,394
	Staff retirement benefits (Note 6.2)	12,232,839,214	8,678,846,893
	Repair and maintenance	1,728,679,986	1,725,590,787
	Travelling and conveyance	951,754,379	985,638,113
	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	242,123,990
	Legal and professional	39,285,783	33,865,767
	Auditors' remuneration (Note 26.1)	2,897,500	1,150,000
	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	162,567,586	121,387,617
	Rent, rates and taxes	25,131,993	23,411,165
	Insurance	33,044,384	34,272,659
	Allowance for expected credit losses (Note 18.2)	583,580,214	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
		29,296,600,220	32,352,557,975
	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	850,000
	Other certifications fee	1,650,000	150,000
	Reimbursable expenses	175,000	150,000
		2,897,500	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.

27.	**OTHER INCOME**		
	Income from financial assets		
	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
		3,468,408,474	2,994,611,888
	Income from non-financial assets		
	T.V. license fee services	31,185,467	40,675,225
	Meter / service rent	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
		673,148,995	818,310,814
		4,141,557,469	3,812,922,702

		2020 RUPEES	**2019 RUPEES Restated**
28.	**FINANCE COST**		
	Mark-up on long term financing	1,431,235,173	1,336,863,528
	Mark-up transferred from GoP	775,719,361	968,853,134
	Bank charges and commission	4,905,299	4,452,579
		2,211,859,833	2,310,169,241

		2020 RUPEES	2019 RUPEES
29.	**TAXATION**		
29.1	**Current**		
	For the year	1,275,956,097	-

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 AND 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	4 216 126 821
	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	8,678,846,893
	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 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)	(4,516,049,766)	11,579,562,360
		12,860,153,660	7,901,805,194

		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 deferred 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	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 Executive Officer		Executives	
	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.

33. TRANSACTIONS WITH RELATED PARTIES

Related parties comprise associated companies / undertakings and key management personnel. Detail of transactions with related parties other than those which have been disclosed elsewhere in these financial statements, are as follows:

	2020 RUPEES	2019 RUPEES
Associated companies / undertakings:		
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.

	2020	2019
34. 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

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

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:

	2020	2019
Trade and other payables - USD	47,646	47,646

Following significant exchange rates were applied during the year:

Rupees per US Dollar		
Average rate	164.50	140.92
Reporting date rate	168.75	160.25

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	4,913,909,263	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:

Trade debts	51,201,853,926	29,439,190,947
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
Bank balances	17,367,885,403	10,457,887,798
	93,233,482,379	57,273,095,510

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	Long term	Agency	(RUPEES)	
Allied Bank Limited	A1+	AAA	PACRA	1,181,331,989	352,020,528
United Bank Limited	A-1+	AAA	VIS	2,699,979,971	1,885,767,634
MCB Bank Limited	A1+	AAA	PACRA	1,133,744,537	720,022,140
Habib Bank Limited	A-1+	AAA	VIS	2,630,531,460	2,510,735,942
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
	Short term	Long term	Agency	(RUPEES)	
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 Taraqiati 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 Bank Limited	A2	A-	PACRA	3	-
AlBaraka Bank (Pakistan) Limited	A1	A	PACRA	292,785	2,584,758
Dubai Islamic Bank Pakistan Limited	A-1+	AA	VIS	954,389	-
BankIslami Pakistan Limited	A1	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	392,367,406	327,336,740
	Sub total:-			3,603,232,212	3,487,302,960
	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
	(RUPEES)					
Non-derivative financial liabilities:						
Long term financing	14,149,488,141	34,583,031,608	5,785,993,388	485,855,286	1,839,359,909	26,471,822,525
Long term security deposits	10,179,383,631	10,179,383,631	-	-	-	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
	(RUPEES)					
Non-derivative financial liabilities:						
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	9,292,966,980	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 purchases.

35.2 Financial instruments by categories

	2020 RUPEES	2019 RUPEES
	At amortized cost	
As at 30 June		
Assets as per statement of financial position		
Trade 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	9,292,966,980
	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 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 by the Board of Directors of the Company in their meeting held on 06 OCT 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:

PARTICULARS	RECLASSIFICATION		RUPEES
	FROM	TO	
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 rounded off to the nearest Rupee.

CHIEF EXECUTIVE OFFICER

DIRECTOR

Riaz Ahmad & Company
Chartered Accountants

MULTAN ELECTRIC POWER COMPANY LIMITED

FINANCIAL STATEMENTS WITH ACCOMPANYING INFORMATION

30 JUNE 2019

A member of Nexia International

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 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.

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

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);

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)

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

Riaz Ahmad & Co.
RIAZ AHMAD & COMPANY
Chartered Accountants

Faisalabad

Date: 05 OCT 2019

MULTAN ELECTRIC POWER COMPANY LIMITED
STATEMENT OF FINANCIAL POSITION AS AT 30 JUNE 2019

	NOTE	2019 RUPEES	2018 RUPEES Restated	2017 RUPEES Restated
EQUITY AND LIABILITIES				
SHARE CAPITAL AND RESERVES				
Authorized share capital				
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
Issued, subscribed and paid up share capital	3	10,823,636,048	10,823,636,048	10,823,636,048
Deposit for shares	4	31,337,632,169	30,590,260,624	32,508,450,451
Accumulated loss		(133,599,363,948)	(106,224,501,798)	(61,481,748,121)
Total equity		(91,438,095,731)	(64,810,605,126)	(18,149,661,622)
LIABILITIES				
NON-CURRENT LIABILITIES				
Long term financing	5	8,811,426,965	9,234,627,888	9,080,648,300
Staff retirement benefits	6	79,175,417,563	70,394,154,272	56,593,072,377
Long term security deposits	7	9,179,842,474	8,164,534,805	7,210,180,701
Receipt against deposit works	8	20,722,976,017	20,448,934,978	17,393,862,409
Deferred credit	9	57,194,876,289	52,220,167,587	48,487,702,894
Deferred mark-up		-	626,688,464	291,904,353
		175,084,539,308	161,089,107,994	139,057,371,034
CURRENT LIABILITIES				
Trade and other payables	10	122,306,645,711	116,046,041,236	49,936,279,621
Accrued mark-up	11	9,305,254,845	7,197,300,877	6,302,177,109
Current portion of long term financing	5	5,376,169,185	4,472,645,281	3,603,804,432
		136,988,069,741	127,715,987,394	59,842,261,162
TOTAL LIABILITIES		312,072,609,049	288,805,095,388	198,899,632,196
CONTINGENCIES AND COMMITMENTS	12			
TOTAL EQUITY AND LIABILITIES		220,634,513,318	223,994,490,262	180,749,970,574

	NOTE	2019 RUPEES	2018 RUPEES Restated	2017 RUPEES Restated
ASSETS				
NON-CURRENT ASSETS				
Property, plant and equipment	13	108,889,817,854	100,028,337,227	91,088,703,476
Intangible asset	14	10,101,690	27,397,086	44,692,482
Long term advances	15	80,630,425	76,959,810	76,206,044
Long term deposits	16	49,185	49,185	49,185
		108,980,599,154	100,132,743,308	91,209,651,187
CURRENT ASSETS				
Stores and spare parts	17	8,103,425,849	5,763,585,227	3,940,715,238
Trade debts	18	28,795,204,590	39,045,856,911	27,545,653,037
Loans and advances	19	349,920,881	411,795,054	250,430,568
Other receivables	20	57,164,705,281	57,697,402,536	38,758,498,258
Tax refunds due from Government	21	6,679,287,571	10,673,864,099	10,142,850,087
Accrued interest		103,482,195	48,504,557	40,060,925
Bank balances	22	10,457,887,798	10,220,738,570	8,862,111,274
		111,653,914,165	123,861,746,954	89,540,319,387
TOTAL ASSETS		220,634,513,318	223,994,490,262	180,749,970,574

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

CHIEF EXECUTIVE OFFICER

DIRECTOR

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	23	165,347,625,359	139,972,299,041
TARIFF DIFFERENTIAL SUBSIDY	24	69,964,631,669	40,264,736,364
		235,312,257,028	180,237,035,405
COST OF ELECTRICITY	25	(225,725,413,330)	(192,693,791,151)
GROSS PROFIT / (LOSS)		9,586,843,698	(12,456,755,746)
AMORTIZATION OF DEFERRED CREDIT	9	2,758,528,394	2,490,165,155
		12,345,372,092	(9,966,590,591)
OPERATING EXPENSES EXCLUDING DEPRECIATION AND AMORTIZATION	26	(31,940,190,116)	(21,875,164,839)
DEPRECIATION ON OPERATING FIXED ASSETS	13.3	(4,693,124,291)	(4,259,094,586)
AMORTIZATION ON INTANGIBLE ASSETS	14	(17,295,396)	(17,295,396)
		(36,650,609,803)	(26,151,554,821)
LOSS FROM OPERATIONS		(24,305,237,711)	(36,118,145,412)
OTHER INCOME	27	3,812,922,702	3,426,436,794
FINANCE COST	28	(2,290,013,937)	(1,133,018,209)
LOSS BEFORE TAXATION		(22,782,328,946)	(33,824,726,827)
TAXATION	29	-	-
LOSS AFTER TAXATION		(22,782,328,946)	(33,824,726,827)
LOSS PER SHARE - BASIC	30	(21.05)	(31.25)
LOSS PER SHARE - DILUTED	30	(5.40)	(8.17)

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

CHIEF EXECUTIVE OFFICER

DIRECTOR

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.

CHIEF EXECUTIVE OFFICER

DIRECTOR

MULTAN ELECTRIC POWER COMPANY LIMITED
STATEMENT OF CHANGES IN EQUITY
FOR THE YEAR ENDED 30 JUNE 2019

	SHARE CAPITAL	DEPOSIT FOR SHARES	ACCUMULATED LOSS	TOTAL EQUITY
	----------	----------	RUPEES ----------	----------
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)	(10,918,026,850)
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	-	747,371,545
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			
Cash generated from operations	31	7,901,805,194	8,080,562,288
Finance cost paid		(4,452,579)	(211,502,388)
Income tax paid		-	(1,766,263,571)
Staff retirement benefits paid		(4,329,892,086)	(3,211,289,876)
Payment for Fund contribution regarding pension obligation		(160,224,720)	(456,073,833)
Net increase in long term advances		(2,423,799)	(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		(13,439,008,582)	(12,923,744,347)
Proceeds from disposal of property, plant and equipment		-	300,000
Profit on bank deposits received		768,437,015	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		554,481,341	1,021,006,491
Repayment of long term financing		(74,158,360)	(28,641,054)
Consumers' security deposits received		1,015,307,669	954,354,104
Receipt against deposit works-net		8,007,278,135	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.

CHIEF EXECUTIVE OFFICER

DIRECTOR

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. 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 who were 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.

g) **Standards, interpretation and amendments to published approved accounting standards that are not yet effective but relevant to the Company**

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 losses, 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 denominated in foreign currencies 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 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 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:

i) **Revenue recognition**

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'

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:

i) 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 de-recognition 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
	----------RUPEES----------	
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 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 OF SHARES	2018 NUMBER 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
5. LONG TERM FINANCING		
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 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 2,246.061 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:

	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)	631,702,722	6,795,636,026	330,036,560	921,471,585	8,678,846,893
Remeasurement recognized in other 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 benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Balance as at 01 July 2017	3,364,973,045	47,278,337,451	3,364,975,998	2,584,785,883	56,593,072,377
Charge for the year (Note 6.2)	404,524,927	4,964,920,540	362,005,235	818,968,052	6,550,418,754
Remeasurement recognized in other comprehensive income (Note 6.3)	736,048,374	11,248,270,437	(1,066,291,961)	-	10,918,026,850
Benefits paid	(12,051,923)	(2,886,891,608)	(87,327,488)	(225,018,857)	(3,211,289,876)
Contribution made	-	(456,073,833)	-	-	(456,073,833)
Balance as at 30 June 2018	4,493,494,423	60,148,562,987	2,573,361,784	3,178,735,078	70,394,154,272

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 plan 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 benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
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
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				
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	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 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

	30 June 2018				
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Loss on obligation	736,048,374	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)	-	10,918,026,850

6.4 Movement in present value of defined benefit obligations:

	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	977,774,676	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				
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Balance as at 01 July 2017	3,364,973,045	47,278,337,451	3,364,975,998	2,584,785,883	56,593,072,377
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
Benefits paid	(12,051,923)	(2,886,891,608)	(87,327,488)	(225,018,857)	(3,211,289,876)
Remeasurement	736,048,374	11,248,270,437	(1,066,291,961)	-	10,918,026,850
Actuarial losses	-	-	-	542,325,420	542,325,420
Contribution made	-	(456,073,833)	-	-	(456,073,833)
Balance as at 30 June 2018	4,493,494,423	60,148,562,987	2,573,361,784	3,178,735,078	70,394,154,272

6.5 All of the investment of plan assets is in deposit account of a commercial bank.

6.6 Principal actuarial assumptions :

	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 / electricity indexation rate	14.50%	8.25%	0.1225	-
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	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 benefits	Pension	Free electricity benefits	Compensated absences
Discount rate (per annum)	10.00%	10.00%	10.00%	10.00%
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%
Medical / pension indexation rate	10.00%	3.75%	-	-
Medical exposure rate (per annum)	10.00%	-	-	-
Mortality rates	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 year
Withdrawal rates	Low	Low	Low	Low
Expected charge to the statement of profit or loss for the next financial year (Rupees)	570,707,523	7,028,086,935	303,290,471	371,997,313

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 benefits	Pension	Free electricity benefits	Compensated absences
Discount rate	1.00%	1.00%	1.00%	1.00%
Increase in assumption (Rupees)	(1,103,055,655)	(4,617,905,548)	(464,046,472)	(373,200,523)
Decrease in assumption (Rupees)	1,332,236,830	12,644,723,197	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)
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 (Rupees)	-	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

	30 June 2018			
	Free medical benefits	Pension	Free electricity benefits	Compensated absences
Discount rate	1.00%	1.00%	1.00%	1.00%
Increase in assumption (Rupees)	(739,090,744)	(5,668,370,813)	(374,283,853)	(341,561,744)
Decrease in assumption (Rupees)	972,502,717	9,688,952,358	481,469,645	180,190,687
Medical exposure rate	1.00%	-	-	-
Increase in assumption (Rupees)	326,851,488	-	-	-
Decrease in assumption (Rupees)	(280,835,058)	-	-	-
Medical inflation rate	1.00%	-	-	-
Increase in assumption (Rupees)	604,680,434	-	-	-
Decrease in assumption (Rupees)	(507,244,392)	-	-	-
Withdrawal rates	10.00%	10.00%	10.00%	10.00%
Increase in assumption (Rupees)	(6,951,780)	1,180,196,379	(1,498,864)	(96,969,622)
Decrease in assumption (Rupees)	6,998,645	1,247,158,799	1,507,606	(103,049,615)
Future salary increase	-	1.00%	-	1.00%
Increase in assumption (Rupees)	-	4,275,993,190	-	194,120,900
Decrease in assumption (Rupees)	-	(1,480,456,239)	-	(357,633,479)
Indexation rate	-	1.00%	1.00%	-
Increase in assumption (Rupees)	-	6,848,759,303	494,214,373	-
Decrease in assumption (Rupees)	-	(3,619,335,420)	(388,529,766)	-
Mortality setback	1 year	1 year	-	1 year
Increase in assumption (Rupees)	(173,935,929)	1,349,030,787	-	(101,885,477)
Decrease in assumption (Rupees)	174,016,715	1,083,070,311	-	(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 Historical information:

	2019 RUPEES	2018 RUPEES	2017 RUPEES	2016 RUPEES	2015 RUPEES
Present value of defined benefit 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 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

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 RUPEES	2018 RUPEES
Consumers demand notices awaiting connections (Note 8.1)	4,823,951,134	3,137,958,562
Funds received against deposit works (Note 8.2)	15,899,024,883	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.

9. DEFERRED CREDIT

	2019 RUPEES	2018 RUPEES Restated
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.

		2019 RUPEES	2018 RUPEES
10.	**TRADE AND OTHER PAYABLES**		
	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
		122,306,645,711	116,046,041,236
10.1	**Due to associated companies**		
	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.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 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 Appellate 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 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 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(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 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.

	2019 RUPEES	2018 RUPEES
13. PROPERTY, PLANT AND EQUIPMENT		
Capital work-in-progress (Note 13.1)	10,899,402,994	11,161,660,296
Operating fixed assets (Note 13.2)	97,990,414,860	88,866,676,931
	108,889,817,854	100,028,337,227
13.1 Capital work-in-progress		
Civil works	209,407,849	314,613,184
Distribution equipment (Note 13.1.2)	10,689,995,145	10,847,047,112
	10,899,402,994	11,161,660,296
13.1.1 Movement in capital work-in-progress		
Balance at 01 July	11,161,660,296	8,779,337,950
Add: Additions during the year	8,562,460,880	10,390,640,969
	19,724,121,176	19,169,978,919
Less:		
Transferred to operating fixed assets	8,795,912,542	7,974,910,555
Impairment charged during the year (Note 26)	28,805,640	33,408,068
	8,824,718,182	8,008,318,623
Balance as at 30 June	10,899,402,994	11,161,660,296

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 freehold land	Office equipment	Distribution equipment	Other plant and equipment	Vehicles	Total
	(RUPEES)							
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)	(728,244,459)	(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
Disposals								
Cost	-	-	-	-	-	-	(215,625)	(215,625)
Accumulated depreciation	-	-	-	-	-	-	215,625	215,625
	-	-	-	-	-	-	-	-
Depreciation charge	-	-	(75,779,430)	(46,422,837)	(4,069,177,392)	(27,393,702)	(45,521,519)	(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 30 June 2018 - restated								
Cost	358,679,002	2,277,338	4,036,180,530	565,703,381	123,981,113,872	509,950,673	1,019,094,116	130,472,998,912
Accumulated depreciation	-	(790,164)	(983,983,732)	(270,653,629)	(39,265,641,728)	(311,702,375)	(773,550,353)	(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	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 2019								
Cost	395,856,434	2,277,338	4,336,853,739	617,569,902	137,058,873,523	861,421,268	1,022,590,216	144,295,442,420
Accumulated depreciation	-	(790,164)	(1,066,248,893)	(317,600,240)	(43,750,678,510)	(351,223,311)	(818,486,442)	(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
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, 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.

		2019 RUPEES	2018 RUPEES
13.3	**Depreciation charge for the year has been allocated as follows:**		
	Operating cost	4,693,124,291	4,259,094,586
	Capital work-in-progress (Note 13.1.3)	5,581,288	5,200,294
		4,698,705,579	4,264,294,880
14.	**INTANGIBLE ASSET**		
	Computer Softwares		
	Net carrying value basis		
	Balance as at 01 July	27,397,086	44,692,482
	Amortization	(17,295,396)	(17,295,396)
	Balance as at 30 June	10,101,690	27,397,086
	Gross carrying amount		
	Cost	86,476,981	86,476,981
	Accumulated amortization	(76,375,291)	(59,079,895)
	Net book value	10,101,690	27,397,086
	Amortization rate (per annum)	20%	20%

14.1 These include SAP software, Dongle Software and Global Positioning System (GPS). Total cost of the softwares has been funded by the USAID grant as mentioned in Note 13.2.5.

15.	**LONG TERM LOANS AND ADVANCES**		
	Considered good - secured:		
	House building / purchase of plots	92,265,426	87,153,603
	Vehicles	26,017,795	28,705,819
		118,283,221	115,859,422
	Less: Current portion shown under current assets (Note 19)	37,652,796	38,899,612
		80,630,425	76,959,810

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 14.35 percent (2018: 11.70 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	7,644,539,367	5,573,694,015
	Spare parts	540,936,597	281,626,035
		8,185,475,964	5,855,320,050
	Less: Provision for slow moving and obsolete items of 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 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

		2019 RUPEES	2018 RUPEES
18.	**TRADE DEBTS**		
	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)
		28,795,204,590	39,045,856,911
18.1	**Allowance for expected credit losses**		
	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
		11,028,371,070	4,075,948,216
	Less:		
	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 consumers' security deposits. Trade debts as at the reporting date are classified into domestic, commercial, agriculture, public lights, residential colonies and others.

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

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	39,910,496,354	44,087,904,736
Duties, charges and taxes (Note 20.16)	-	-
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

		2019 RUPEES	2018 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).

		2019 RUPEES	2018 RUPEES
20.16	**Duties, charges and taxes**		
	Receivables not yet realized:		
	Electricity duty	265,120,574	236,031,142
	Income tax	321,219,743	371,261,427
	Other taxes	87,308,477	70,876,507
	Neelum Jhelum surcharge	231,922,348	198,461,758
	Debt service surcharge	906,830,035	745,799,248
	Universal obligation surcharge	155,525,181	757,104,822
	T.V. license fee	117,366,195	114,189,285
	Equalization surcharge	8,807,433	9,246,029
		2,094,099,986	2,502,970,218
	Payables not yet realized:		
	Electricity duty	(265,120,574)	(236,031,142)
	Income tax	(321,219,743)	(371,261,427)
	Other taxes	(87,308,477)	(70,876,507)
	Neelum Jhelum surcharge	(231,922,348)	(198,461,758)
	Debt service surcharge	(906,830,035)	(745,799,248)
	Universal obligation surcharge	(155,525,181)	(757,104,822)
	T.V. license fee	(117,366,195)	(114,189,285)
	Equalization surcharge	(8,807,433)	(9,246,029)
		(2,094,099,986)	(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
	6,679,287,571	10,673,864,099

22. BANK BALANCES

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

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 RUPEES	2018 RUPEES
26.	**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
	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
	Rent, rates and taxes	23,411,165	23,649,593
	Insurance	34,272,659	32,800,655
	Allowance for expected credit losses (Note 18.1)	6,955,204,725	190,131,302
	Exchange loss	1,841,518	-
	Impairment of capital work in progress (Note 13.1.1)	28,805,640	33,408,068
	Other charges (Note 26.2)	2,732,320,532	2,611,979,498
		32,352,557,975	22,216,998,637
	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
		1,150,000	1,675,000

26.2 These include supplemental charges of Rupees 2,171.19 million (2018: Rupees 1,642.39 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		
	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
	Income from non-financial assets		
	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
28.	**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 RUPEES	2018 RUPEES
29.2 Deferred		
Deferred income tax effect due to:		
Accelerated tax depreciation	17,541,708,604	15,753,841,168
Allowance for expected credit losses	(3,185,240,493)	(1,181,218,240)
Provision for slow moving and obsolete items of stores and spare parts	(23,794,533)	(26,603,099)
Staff retirement benefits	(22,960,871,093)	(20,414,304,739)
Unused tax losses and credit	(151,581,851,680)	(118,576,556,901)
Net deferred income tax asset	(160,210,049,195)	(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 including deposit for shares	(Numbers)	4 216 126 821	4 141 389 666
Loss per share - Diluted	(Rupees)	(5.40)	(8.17)

31. CASH GENERATED FROM OPERATIONS

	2019 RUPEES	2018 RUPEES
Loss before taxation	(22,782,328,946)	(33,824,726,827)
Adjustments for non-cash charges and other items:		
Depreciation	4,693,124,291	4,259,094,586
Provision for staff retirement benefits	8,678,846,893	6,550,418,754
Amortization of intangible asset	17,295,396	17,295,396
Amortization of deferred credit	(2,758,528,394)	(2,490,165,155)
Allowance for expected credit losses	6,955,204,725	190,131,302
Provision for slow moving and obsolete items of stores and spare parts reversed during the year	(9,684,708)	(44,454,618)
Impairment of capital work-in-progress	28,805,640	33,408,068
Profit on bank deposits	(823,414,653)	(607,618,615)
Credit balances written back	51,222,439	141,244,620
Gain on disposal of property, plant and equipment	-	(300,000)
Finance cost	2,290,013,937	1,133,018,209
Working capital changes (Note 31.1)	11,561,248,573	32,723,216,568
	7,901,805,194	8,080,562,288

		2019 RUPEES	2018 RUPEES
31.1	**Working capital changes**		
	(Increase) / decrease in current assets		
	Stores and spare parts	(2,330,155,914)	(1,778,415,371)
	Trade debts	3,295,447,596	(11,690,335,176)
	Loans and advances	60,627,357	(154,705,334)
	Other receivables	532,697,255	(18,938,904,278)
	Tax refunds due from Government	3,994,576,528	1,235,249,559
		5,553,192,822	(31,327,110,600)
	Increase in trade and other payables	6,008,055,751	64,050,327,168
		11,561,248,573	32,723,216,568

31.2 Reconciliation of movement of liabilities to cash flows arising from financing activities:

	Long term financing	Long term security deposits	Receipt against deposit works and deferred 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	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 and executives of the Company are as follows:

	2019	2018	2019	2018
	Chief Executive 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

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 RUPEES	2018 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 RUPEES	2018 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
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

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	Long term	Agency	(RUPEES)	
Allied Bank Limited	A1+	AAA	PACRA	352,020,528	2,752,430,294
United Bank Limited	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 Bank of Punjab	A1+	AA	PACRA	751,546,253	-
Bank Alfalah Limited	A1+	AA+	PACRA	25,275,807	13,237,194
		Sub total:-		7,318,693,656	6,370,064,441

	Rating			2019	2018
	Short term	Long term	Agency	(RUPEES)	
Bank Al-Habib Limited	A1+	AA+	PACRA	653,554,864	295,420,845
Meezan Bank Limited	A-1+	AA+	VIS	503,456,499	425,826,120
Soneri Bank Limited	A1+	AA-	PACRA	864,451,651	1,102,628,424
Askari Bank Limited	A1+	AA+	PACRA	2,997,560	13,991,390
Faysal Bank Limited	A1+	AA	PACRA	866,536,574	1,579,856,104
Habib Metropolitan Bank Limited	A1+	AA+	PACRA	76	108,554,176
Standard Chartered Bank (Pakistan) Limited	A1+	AAA	PACRA	-	3,144
Zarai Taraqiati 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	A	PACRA	2,584,758	4,482,136
Dubai Islamic Bank Pakistan Limited	A-1+	AA	VIS	-	1,560,317
The Bank of Khyber	A1	A	PACRA	-	1,563,375
Trust Investment Bank Limited**			N/A	214,373,418	214,373,418
The Punjab Provincial Cooperative Bank Limited***			N/A	31,169,053	27,686,146
Sub total:-				3,139,194,142	3,850,674,129
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 flows	6 months or less	6-12 months	1-3 years	More than 3 years
	(RUPEES)					
Non-derivative financial liabilities:						
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	2,766,721,211	35,884,434,380

Following are the contractual maturities of financial liabilities as at 30 June 2018:

	Carrying amount	Contractual cash flows	6 months or less	Less than 1 year	1-3 years	More than 3 years
	(RUPEES)					
Non-derivative financial liabilities:						
Long term financing	13,707,273,169	33,405,263,917	4,038,687,197	446,647,665	2,517,163,124	26,402,765,931
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

	2019 RUPEES	2018 RUPEES
	At amortized cost	Loans and receivables
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	
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

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 05 OCT 2019 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	RECLASSIFICATION		RUPEES
	FROM	TO	
Other loans - unsecured	Receipt against deposit works	Long term financing	30,455,000

39. GENERAL

Figures have been rounded off to the nearest Rupee.

CHIEF EXECUTIVE OFFICER

DIRECTOR

Riaz Ahmad & Company
Chartered Accountants

MULTAN ELECTRIC POWER COMPANY LIMITED

FINANCIAL STATEMENTS WITH ACCOMPANYING INFORMATION

30 JUNE 2018

Manager (CP&C)
MePCO Ltd; Multan

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 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 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 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

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, 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.

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.

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

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)

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

Riaz Ahmad & 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

	NOTE	2018 RUPEES	2017 RUPEES Restated	2016 RUPEES Restated
EQUITY AND LIABILITIES				
SHARE CAPITAL AND RESERVES				
Authorized share capital				
5 000 000 000 (2017: 5 000 000 000) ordinary shares of Rupees 10 each		50,000,000,000	50,000,000,000	50,000,000,000
Issued, subscribed and paid up share capital	3	10,823,636,048	10,823,636,048	10,823,636,048
Deposit for shares	4	30,590,260,624	32,508,450,451	22,508,450,451
Accumulated loss		(105,224,501,798)	(61,481,748,121)	(32,080,819,905)
Total equity		(64,810,605,126)	(18,149,661,622)	11,251,266,594
LIABILITIES				
NON-CURRENT LIABILITIES				
Long term financing	5	9,204,172,888	9,080,648,300	8,067,699,652
Staff retirement benefits	6	70,394,184,272	56,593,072,377	43,018,931,974
Long term security deposits	7	8,164,534,805	7,210,180,701	6,339,486,868
Receipt against deposit works	8	20,479,380,978	17,393,862,409	14,942,226,573
Deferred credit	9	51,137,296,374	47,319,824,871	43,891,068,409
Deferred mark-up		626,688,464	291,904,353	244,386,437
		160,006,258,781	137,899,493,011	116,495,395,913
CURRENT LIABILITIES				
Trade and other payables	10	116,046,041,236	49,936,279,621	17,607,720,584
Accrued mark-up	11	7,197,306,977	6,302,177,109	4,791,934,812
Current portion of long term financing	5	4,472,648,781	3,603,804,432	2,695,401,802
		127,715,987,354	59,842,261,162	25,095,056,733
TOTAL LIABILITIES		287,722,246,135	197,731,754,173	141,590,452,646
CONTINGENCIES AND COMMITMENTS	12			
TOTAL EQUITY AND LIABILITIES		222,911,619,049	179,582,092,551	152,841,718,240

	NOTE	2018 RUPEES	2017 RUPEES	2016 RUPEES
ASSETS				
NON-CURRENT ASSETS				
Property, plant and equipment	13	98,972,863,100	89,965,517,935	81,680,039,047
Long term advances	14	76,959,810	75,306,044	76,553,146
Long term deposits	15	49,185	49,185	49,185
		99,049,872,095	90,041,773,164	81,756,641,378
CURRENT ASSETS				
Stores and spare parts	16	5,763,585,227	3,940,715,238	4,615,830,765
Trade debts	17	39,045,856,911	27,545,653,037	19,808,019,606
Loans and advances	18	411,795,054	250,430,568	386,193,502
Other receivables	19	57,697,402,536	38,758,498,258	29,106,168,469
Tax refunds due from Government	20	10,673,864,099	10,142,850,087	12,581,170,106
Accrued interest		48,504,557	40,000,925	14,811,240
Cash and bank balances	21	10,220,738,570	8,862,111,274	4,573,083,734
		123,861,746,954	89,540,319,387	71,084,987,362
TOTAL ASSETS		222,911,619,049	179,582,092,551	152,841,718,240

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

CHIEF EXECUTIVE OFFICER

DIRECTOR

MULTAN ELECTRIC POWER COMPANY LIMITED
STATEMENT OF PROFIT OR LOSS
FOR THE YEAR ENDED 30 JUNE 2018

	NOTE	2018 RUPEES	2017 RUPEES
SALES OF ELECTRICITY - NET	22	139,972,299,041	107,599,220,857
TARIFF DIFFERENTIAL SUBSIDY	23	40,264,736,364	31,085,758,277
		180,237,035,405	138,684,979,134
COST OF ELECTRICITY	24	(192,693,791,151)	(140,019,166,193)
GROSS LOSS		(12,456,755,746)	(1,334,187,059)
AMORTIZATION OF DEFERRED CREDIT	9	2,405,158,345	2,213,528,610
		(10,051,597,401)	879,341,551
OPERATING EXPENSES EXCLUDING DEPRECIATION	25	(21,875,164,839)	(17,266,228,807)
DEPRECIATION ON OPERATING FIXED ASSETS	13.3	(4,191,383,172)	(3,734,844,871)
		(26,066,548,011)	(21,001,073,678)
LOSS FROM OPERATIONS		(36,118,145,412)	(20,121,732,127)
OTHER INCOME	26	3,426,436,794	3,121,283,160
FINANCE COST	27	(1,133,018,209)	(934,061,591)
LOSS BEFORE TAXATION		(33,824,726,827)	(17,934,510,558)
TAXATION	28	-	-
LOSS AFTER TAXATION		(33,824,726,827)	(17,934,510,558)
LOSS PER SHARE - BASIC	29	(31.25)	(16.57)
LOSS PER SHARE - DILUTED	29	(8.17)	(4.14)

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

CHIEF EXECUTIVE OFFICER

DIRECTOR

MULTAN ELECTRIC POWER COMPANY LIMITED
STATEMENT OF COMPREHENSIVE INCOME
FOR THE YEAR ENDED 30 JUNE 2018

	2018 RUPEES	2017 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:		
Remeasurement of defined benefit obligations	(10,918,026,850)	(11,466,417,658)
Items that may be reclassified subsequently to 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.

CHIEF EXECUTIVE OFFICER

DIRECTOR

MULTAN ELECTRIC POWER COMPANY LIMITED
STATEMENT OF CHANGES IN EQUITY
FOR THE YEAR ENDED 30 JUNE 2018

	SHARE CAPITAL	DEPOSIT FOR SHARES	ACCUMULATED LOSS	TOTAL EQUITY
	RUPEES			
Balance as at 30 June 2016	10,823,636,048	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 2016-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)	(17,934,510,558)
Other comprehensive loss for the year	-	-	(11,466,417,658)	(11,466,417,658)
Total comprehensive loss for the year	-	-	(29,400,928,216)	(29,400,928,216)
Balance as at 30 June 2017-restated	10,823,636,048	32,508,450,451	(61,481,748,121)	(18,149,661,622)
Non-cash settlement against deposit for shares (Note 4)	-	(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)	(10,918,026,850)
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)

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 2018

	NOTE	2018 RUPEES	2017 RUPEES
CASH FLOWS FROM OPERATING ACTIVITIES			
Cash generated from operations	30	8,080,562,288	7,387,771,253
Finance cost paid		(211,502,388)	(6,856,757)
Income tax paid		(1,766,263,571)	(10,140,769)
Staff retirement benefits paid		(3,211,289,876)	(2,461,130,746)
Payment for Fund contribution regarding pension obligation		(456,073,833)	(353,129,105)
Net increase in long term advances		(7,412,918)	(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		(12,923,744,347)	(11,416,409,015)
Proceeds from disposal of property, plant and equipment		300,000	-
Profit on bank deposits received		599,174,983	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		1,021,006,491	1,925,956,164
Repayment of long term financing		(28,641,054)	(4,599,891)
Consumers' security deposits received		954,354,104	870,693,833
Receipt against deposit works-net		9,308,157,417	8,093,920,908
Net cash from financing activities		11,254,876,958	10,885,971,014
NET INCREASE IN CASH AND CASH EQUIVALENTS		1,358,627,296	4,289,025,540
CASH AND CASH EQUIVALENTS AT THE BEGINNING OF THE YEAR		8,862,111,274	4,573,085,734
CASH AND CASH EQUIVALENTS AT THE 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.

CHIEF EXECUTIVE OFFICER

DIRECTOR

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, 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.

1.1 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 Authority (NEPRA) decision/determination issued vide its letter no. NEPRA/TRF-419/14412-14414 dated 10 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 financial 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

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) 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.

d) **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.

Provision for doubtful debts

The Company reviews its receivable balances against any provision required for any doubtful balances on an ongoing 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 6 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 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 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 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.

f) **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.

h) **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 in the contracts; and recognize revenue when (or as) the entity satisfies a performance obligation. 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.

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.

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 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 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 losses, 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, derecognition, 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 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.

i) 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 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

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 losses 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 ceiling (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 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 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 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 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 recognition is made at fair value plus transaction costs directly 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 those 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 de-recognition 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 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.

2.11 Borrowings

Borrowings are recognized initially at fair value and are subsequently stated at amortized cost. Any difference between the proceeds and the redemption 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

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

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 recognizec 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 reversed only 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 liabilities 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 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 for the effect of all dilutive potential ordinary shares.

3. ISSUED, SUBSCRIBED AND PAID UP SHARE CAPITAL

2018	2017		2018	2017
NUMBER OF SHARES			RUPEES	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 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-1/2015-16/443 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.

	2018 RUPEES	2017 RUPEES
5. LONG TERM FINANCING		
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	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)	2,152,657,090	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
	12,709,592,449	11,688,585,958
Unsecured		
Cash Development Loan from GoP (Note 5.6)	797,050,000	797,050,000
	13,506,642,449	12,485,635,958
Other loans - unsecured (Note 5.7, 5.8, 5.9, 5.10 and 5.11)	170,175,720	198,816,774
	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 (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 1,205.166 million (2017: Rupees 1,004.87 million) and Rupees 2,951.499 million (2017: Rupees 2,837.13 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 889.180 million (2017: Rupees 825.03 million) and Rupees 631.819 million (2017: Rupees 779.24 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 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 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 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 GoP, 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-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 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 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 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 18 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 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 is 12 June 2014. The overdue amount of principal aggregate to Rupees 4.306 million (2017: Rupees 1.72 million).

5.9 These include two interest free loans of Rupees 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 meet expenses for grid interconnection and framework 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 Thal 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 Notes 5.7 to Note 5.10 is not considered material and hence not recognized.

	2018 RUPEES	2017 RUPEES
6. STAFF RETIREMENT BENEFITS		
Free medical benefits (Note 6.1)	4,493,494,423	3,364,973,045
Pension (Note 6.1)	60,148,562,987	47,278,337,451
Free electricity benefits (Note 6.1)	2,573,361,784	3,364,975,998
Compensated absences (Note 6.1)	3,178,735,078	2,584,785,883
	70,394,154,272	56,593,072,377

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

	30 June 2018				
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Balance as at 01 July 2017	3,364,973,045	47,278,337,451	3,364,975,998	2,584,735,883	56,593,072,377
Charge for the year (Note 6.2)	404,524,927	4,964,920,540	362,005,235	818,968,052	6,550,418,754
Remeasurement recognized in statement of comprehensive income (Note 6.3)	736,048,374	11,246,270,437	(1,066,291,961)	-	10,918,026,850
Benefits paid	(12,051,922)	(2,886,891,608)	(87,327,488)	(225,018,857)	(3,211,289,876)
Fund contribution	-	(456,073,833)	-	-	(456,073,833)
Balance as at 30 June 2018	4,493,494,423	60,148,562,987	2,573,361,784	3,178,735,078	70,394,154,272

	30 June 2017				
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Balance as at 01 July 2016	[illegible]	[illegible]	2,850,264,752	2,050,896,152	43,010,531,974
Charge for the year (Note 6.2)	322,386,343	3,569,226,484	336,740,278	701,829,491	4,930,382,596
Remeasurement recognized in statement of comprehensive income (Note 6.3)	463,636,398	10,740,934,240	261,897,020	-	11,466,417,658
Benefits paid	(11,411,143)	(2,197,853,781)	(83,926,062)	(167,939,760)	(2,461,130,746)
Fund contribution	-	(353,129,105)			(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

6.1.1 The amount of pension obligation recognized in the statement of financial position is as follows:

	2018 RUPEES	2017 RUPEES
Present value of defined benefit obligation	61,362,143,336	47,450,126,065
Fair value of plan assets	(1,213,580,349)	(171,788,614)
	60,148,562,987	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 benefits	Pension	Free electricity benefits	Compensated absences	Total
	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

	30 June 2017				
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Current service cost	[illegible]	[illegible]	[illegible]	39,351,139	700,621,423
Interest cost	232,601,029	3,081,934,636	252,747,156	177,023,364	[illegible]
Actuarial losses	-		-	485,454,988	485,454,988
Net charge for the year	322,386,343	3,569,226,484	336,740,278	701,829,491	4,930,382,596

6.3 Remeasurement recognized in statement of comprehensive income:

	30 June 2018				
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Loss on obligation	736,048,374	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)	-	10,918,026,850

	30 June 2017				
	Free medical benefits	Pension	Free electricity 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	-	443,828,499	-	-	443,828,499
Experience adjustments	463,636,398	10,740,884,240	261,897,020	-	11,466,417,658

6.4 Reconciliation of present value of defined benefit obligations:

	30 June 2018				
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Balance as at 01 July 2017	3,364,973,045	47,278,337,451	3,364,975,998	2,584,785,883	56,593,072,377
Current service cost	93,822,322	749,286,478	54,783,852	47,957,060	942,849,712
Interest cost	310,792,905	4,218,824,052	307,221,383	228,685,572	5,065,243,622
Benefits paid during the year	(12,691,323)	(2,856,891,608)	(87,327,488)	(225,018,857)	(3,211,289,876)
Remeasurement	736,048,374	11,248,270,437	(1,066,291,961)	-	10,918,026,850
Actuarial losses	-	-	-	542,325,420	542,325,420
Fund contribution	-	(456,073,833)	-	-	(456,073,833)
Balance as at 30 June 2018	4,493,494,423	60,148,562,987	2,573,361,784	3,178,735,078	70,394,154,272

	30 June 2017				
	Free medical benefits	Pension	Free electricity benefits	Compensated absences	Total
	RUPEES	RUPEES	RUPEES	RUPEES	RUPEES
Balance as at 01 July 2016	2,590,161,447	35,519,209,613	2,850,264,762	2,050,996,152	43,010,631,974
Current service cost	89,985,314	487,291,848	83,993,122	39,351,139	700,621,423
Interest cost	232,901,029	3,081,934,636	252,747,156	177,023,364	3,744,306,185
Benefits paid during the year	(11,411,143)	(2,197,853,751)	(83,926,062)	(167,939,760)	(2,461,130,746)
Remeasurement	463,636,398	10,740,884,240	261,897,020	-	11,466,417,658
Actuarial losses	-	-	-	485,454,988	485,454,988
Fund contribution	-	(353,129,105)	-	-	(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

6.5 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 benefits	Pension	Free electricity benefits	Compensated absences
Discount rate (per annum)	10.00%	10.00%	10.00%	10.00%
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%	-	-
Medical exposure rate (per annum)	10.00%	-	-	-
Mortality rates	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 year
Withdrawal rates	Low	Low	Low	Low
Expected charge to the statement of profit or loss for the next financial year (Rupees)	570,707,523	7,028,086,935	303,290,471	371,997,313

	30 June 2017			
	Free medical benefits	Pension	Free electricity benefits	Compensated absences
Discount rate (per annum)	9.25%	9.25%	9.25%	9.25%
Inflation rate	-	-	7.25%	-
Annual medical claim - Rupees	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	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 year	SLIC 2001-2005 setback 1 year
Withdrawal rates	Low	Low	Low	Low
Expected charge to profit and loss account for the next financial 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:

	30 June 2018			
	Free medical benefits	Pension	Free electricity benefits	Compensated absences
Discount rate	1.00%	1.00%	1.00%	1.00%
Increase in assumption (Rupees)	(739,090,744)	(5,668,370,813)	(374,283,853)	(341,561,744)
Decrease in assumption (Rupees)	972,502,717	9,688,952,358	481,469,615	180,190,687
Medical exposure rate	1.00%	-	-	-
Increase in assumption (Rupees)	326,851,488	-	-	-
Decrease in assumption (Rupees)	(280,835,058)	-	-	-
Medical inflation rate	1.00%	-	-	-
Increase in assumption (Rupees)	694,680,454	-	-	-
Decrease in assumption (Rupees)	(507,244,392)	-	-	-
Withdrawal rates	10.00%	10.00%	10.00%	10.00%
Increase in assumption (Rupees)	(6,951,780)	1,180,196,379	(1,498,864)	(96,969,622)
Decrease in assumption (Rupees)	6,998,645	1,247,158,799	1,507,606	(103,049,615)
Future salary increase	-	1.00%	-	1.00%
Increase in assumption (Rupees)	-	4,275,993,190	-	194,120,900
Decrease in assumption (Rupees)	-	(1,480,456,239)	-	(357,633,479)
Indexation rate	-	1.00%	1.00%	-
Increase in assumption (Rupees)	-	6,848,759,303	494,214,373	-
Decrease in assumption (Rupees)	-	(3,619,235,420)	(388,529,766)	-
Mortality setback	1 year	1 year	-	1 year
Increase in assumption (Rupees)	(173,935,929)	1,349,030,787	-	(101,885,477)
Decrease in assumption (Rupees)	174,016,715	1,083,070,311	-	(98,122,586)

	30 June 2017			
	Free medical benefits	Pension	Free electricity benefits	Compensated absences
Discount rate	1.00%	1.00%	1.00%	1.00%
Increase in assumption (Rupees)	(589,515,691)	(5,084,885,068)	(523,700,684)	(190,192,536)
Decrease in assumption (Rupees)	790,204,064	6,640,450,570	688,818,101	220,048,537
Medical exposure rate	1.00%	-	-	-
Increase in assumption (Rupees)	505,307,340	-	-	-
Decrease in assumption (Rupees)	(411,238,607)	-	-	-
Medical inflation rate	1.00%	-	-	-
Increase in assumption (Rupees)	505,307,340	-	-	-
Decrease in assumption (Rupees)	(411,238,607)	-	-	-
Withdrawal rates	10.00%	10.00%	10.00%	10.00%
Increase in assumption (Rupees)	(5,474,401)	148,333,903	(1,893,499)	3,109,277
Decrease in assumption (Rupees)	5,514,231	195,392,934	1,905,542	(3,128,356)
Future salary increase	-	1.00%	-	1.00%
Increase in assumption (Rupees)	-	2,460,489,780	-	232,697,624
Decrease in assumption (Rupees)	-	(1,842,719,692)	-	(204,282,790)
Indexation rate	-	1.00%	1.00%	-
Increase in assumption (Rupees)	-	4,573,859,012	515,223,480	-
Decrease in assumption (Rupees)	-	(3,580,030,007)	(416,775,458)	-
Mortality setback	1 year	1 year	1 year	1 year
Increase in assumption (Rupees)	4,654,792	208,860,283	(3,499,134)	(2,269,087)
Decrease in assumption (Rupees)	(4,590,402)	156,923,199	3,101,820	2,250,231

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 inflationary expectations.

6.8 **Historical information:**

	2018 RUPEES	2017 RUPEES	2016 RUPEES	2015 RUPEES	2014 RUPEES
Present value of defined benefit obligation 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	1,606,475,611
Compensated absences	3,178,735,078	2,584,785,983	2,050,896,152	1,482,550,166	1,271,506,881
Remeasurement (gain) / loss on obligation of:					
Free medical benefits	736,048,374	463,636,398	443,132,973	58,179,514	44,183,755
Pension	11,248,270,437	10,740,884,240	6,834,840,531	1,148,182,436	1,971,882,592
Free electricity benefits	(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.

8. RECEIPT AGAINST DEPOSIT WORKS	2018 RUPEES	2017 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

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.

9. **DEFERRED CREDIT**

Balance as at 01 July	66,819,350,092	61,177,065,020
Addition during the year	6,222,629,848	5,642,285,072
	73,041,979,940	66,819,350,092
Less: Amortization		
Balance as at 01 July	19,499,525,221	17,285,996,611
Amortization for the year	2,405,158,345	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

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

		2018 RUPEES	2017 RUPEES Restated
10.	**TRADE AND OTHER PAYABLES**		
	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)	807,373,696	807,373,696
	Workers' profit participation fund (Note 10.3)	1,692,118,856	1,692,118,856
	Other liabilities	840,585,609	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 RUPEES	2017 RUPEES
11.	**ACCRUED MARK-UP**		
	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 16.16 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, 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 requirement of the said Act, no provision for interest aggregating to Rupees 1,117.12 million (2017: Rupees 885.16 million) on 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) 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.

(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.

(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 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).

(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, 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.

(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 pending.

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 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.

(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 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. 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 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 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 2018. 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 Appellate 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 Rupees 17,105.01 million. Being 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.

(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 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. 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

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 RUPEES	2017 RUPEES
13. PROPERTY, PLANT AND EQUIPMENT		
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)	2,095,355,386	1,593,569,849
	11,161,660,296	8,779,337,950

	2018 RUPEES	2017 RUPEES
13.1.1 Movement in capital work-in-progress		
Balance at 01 July	8,779,337,950	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)	33,408,068	26,640,605
	8,008,318,623	9,732,925,846
Balance as at 30 June	11,161,660,296	8,779,337,950

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

	Land -Freehold	Land -Leasehold	Buildings on freehold land	Office equipment	Distribution equipment	Other plant and equipment	Vehicles	Total
	(RUPEES)							
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	70,962,816,939
Additions	25,130,151	-	621,246,132	7,863,688	13,228,991,764	71,059,000	6,288,698	13,960,579,433
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	253,683,496	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								
Cost	-	-	-	-	-	-	(215,625)	(215,625)
Accumulated depreciation	-	-	-	-	-	-	215,625	215,625
	-	-	-	-	-	-	-	-
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								
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 depreciation	-	(790,164)	(983,983,732)	(151,719,055)	(39,149,806,061)	(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
Annual rate of depreciation (%)	-	-	2	10	3.5	10	10	

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

		2018 RUPEES	2017 RUPEES
13.3	**Depreciation charge for the year has been allocated as follows:**		
	Operating cost	4,191,383,172	3,734,844,871
	Capital work-in-progress (Note 13.1.3)	5,200,294	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	87,153,603	83,717,442
	Vehicles	28,705,819	24,729,062
		115,859,422	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 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 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**

These represent security deposits with utility companies against connections.

16. **STORES AND SPARE PARTS**

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)	(44,454,618)	-
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	4,073,166,345	3,885,816,914
Less: Provision for doubtful trade debts (Note 17.1)	(4,073,166,345)	(3,885,816,914)
	-	-

		2018 RUPEES	2017 RUPEES
17.1	**Provision for doubtful trade debts**		
	Balance as at 01 July	3,885,816,914	4,622,678,668
	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
	Balance 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

17.4 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.

18. LOANS AND ADVANCES

Considered good:

Employees against expenses	47,029,566	52,818,415
Advances to suppliers	325,865,876	165,371,693
Current portion of long term loans and advances (Note 14)	38,899,612	32,240,460
	411,795,054	250,430,568

19. OTHER RECEIVABLES

Considered good:

Due from associated companies / undertakings (Note 19.1)	3,406,404,327	3,134,354,482
Sales tax receivable from consumers	10,003,629,860	6,828,286,614
Agriculture subsidy receivable from Government of Punjab	150,006,763	150,006,763
Tariff differential subsidy receivable from Government of Pakistan	44,087,904,736	27,373,355,262
Duties, charges and taxes (Note 19.2)	-	-
Receivable against damaged items during warranty period	21,663,260	30,669,955
Others	27,793,590	1,241,825,182
	57,697,402,536	38,758,498,258

		2018 RUPEES	2017 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	697,106,148
	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 Islamabad Electric Supply Company Limited (IESCO) at the end of any month during the year was Rupees 72.68 million (2017: Rupees 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 Rupees 301.21 million (2017: Rupees 216.29 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).

		2018 RUPEES	2017 RUPEES
19.2	**Duties, charges and taxes**		
	Receivables not yet realized:		
	Electricity duty	236,031,142	214,163,537
	Income tax	371,261,427	204,971,624
	Other taxes	70,876,507	24,078,768
	Neelum Jhelum surcharge	198,461,758	185,682,772
	Debt service surcharge	745,799,248	715,764,903
	Universal obligation surcharge	757,104,822	663,229,184
	T.V. license fee	114,189,285	125,982,929
	Equalization surcharge	9,246,029	20,974,918
		2,502,970,218	2,154,848,635
	Payables not yet realized:		
	Electricity duty	(236,031,142)	(214,163,537)
	Income tax	(371,261,427)	(204,971,624)
	Other taxes	(70,876,507)	(24,078,768)
	Neelum Jhelum surcharge	(198,461,758)	(185,682,772)
	Debt service surcharge	(745,799,248)	(715,764,903)
	Universal obligation surcharge	(757,104,822)	(663,229,184)
	T.V. license fee	(114,189,285)	(125,982,929)
	Equalization surcharge	(9,246,029)	(20,974,918)
		(2,502,970,218)	(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

21. 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

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 currency 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

Gross sales	168,641,324,146	126,533,155,430
Less: Sales tax	28,669,025,105	18,933,934,573
	139,972,299,041	107,599,220,857

23. 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.

24. 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.

		2018 RUPEES	2017 RUPEES
25.	**OPERATING EXPENSES EXCLUDING DEPRECIATION**		
	Salaries, wages and other benefits	8,673,080,416	7,407,930,997
	Staff retirement benefits (Note 6.2)	6,550,418,754	4,930,382,596
	Repair and maintenance	1,298,643,998	1,887,661,606
	Travelling and conveyance	988,385,414	775,279,084
	Electricity bills collection charges	419,970,250	404,706,201
	Transportation	355,414,408	307,601,320
	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	427,712,480	145,079,166
	Telephone and postage	53,875,257	74,631,909
	Management fees	208,916,070	610,619,424
	Rent, rates and taxes	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[illegible]
		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 yearly 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**		
	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	1,841,399,142
	Exchange gain	372,413	5,617,168
		2,694,546,188	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	276,447,144
		731,890,606	415,984,170
		3,426,436,794	3,121,283,160
27.	**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 effect due to:		
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
	-	-

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.

29. LOSS PER SHARE

		2018	2017
Basic loss per share			
Loss after taxation	(Rupees)	(33,824,726,827)	(17,934,510,558)
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 including deposit for shares	(Numbers)	4 141 389 666	4 333 208 649
Loss per share - Diluted	(Rupees)	(8.17)	(4.14)

30. CASH GENERATED FROM OPERATIONS

	2018 RUPEES	2017 RUPEES
Loss before taxation	(33,824,726,827)	(17,934,510,558)
Adjustments for non-cash charges and other 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 stores and spare parts reversed during the year	(44,454,618)	-
Impairment of capital work-in-progress	33,408,068	26,640,605
Profit on bank deposits	(607,618,615)	(303,730,624)
Gain on disposal of property, plant and equipment	(300,000)	-
Finance cost	1,133,018,209	934,061,591
Working capital changes (Note 30.1)	33,054,592,490	18,768,163,438
	8,080,562,288	7,387,771,253

		2018 RUPEES	2017 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	2,448,460,768
		(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 financing	Consumers' security deposits received	Receipt against deposit works	Total
	RUPEES			
Balance as at 01 July 2017	12,684,452,732	7,210,180,701	64,713,687,280	84,608,320,713
Financing obtained	1,021,006,491	-	-	1,021,006,491
Repayment of financing	(28,641,054)	-	-	(28,641,054)
Security deposits received	-	954,354,104	-	954,354,104
Receipts against deposit work received-net	-	-	9,308,157,417	9,308,157,417
Amortization of deferred credit	-	-	(2,405,158,345)	(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 Executive Officer		Executives	
	RUPEES	RUPEES	RUPEES	RUPEES
Basic pay	1,586,760	1,586,760	252,661,800	-
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, it was not practicable to disclose comparative figures of executives in accordance with the requirements of the fifth 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 financial statements, are as follows:

	2018 RUPEES	2017 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	32,684,181
Electricity bills of the Company received by associated companies	921,803	456,291
Electricity bills of associated companies received by the Company	758,193	798,681
Pension paid to employees of associated companies	754,605,799	574,558,813
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 employee 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	-	64,465
Loans and advances - USD	37,904	281,006
Net exposure - USD	(9,742)	(972,083)
Net exposure - CNY	-	64,465

Following significant exchange rates were applied during the year:

Rupees per US Dollar		
Average rate	110.43	104.90
Reporting date rate	121.60	105.00
Rupees per Chinese Yuan		
Average rate	17.20	15.74
Reporting date rate	18.76	15.70

Sensitivity analysis

If the functional currency, at reporting date, had weakened / strengthened by 5% against the USD and CNY with all other variables held 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: Rupees 0.051 million) lower / higher respectively, 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:

	2018 RUPEES	2017 RUPEES
Fixed rate instruments		
Financial assets		
Long term advances	115,859,422	108,446,504
Financial liabilities		
Long term financing	13,506,642,449	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 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 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 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	39,045,856,911	27,545,653,037
Loans and advances	115,859,422	108,446,504
Accrued interest	46,504,557	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
	Short term	Long term	Agency	(RUPEES)	
Banks					
Allied Bank Limited	A1+	AA+	PACRA	2,752,430,294	2,603,729,495
United Bank Limited	A-1+	AAA	JCR-VIS	2,053,672,997	1,297,899,145
MCB Bank Limited	A1+	AAA	PACRA	193,310,467	96,038,949
Habib Bank Limited	A-1+	AAA	JCR-VIS	208,329,091	239,419,175
National Bank of Pakistan	A-1+	AAA	JCR-VIS	1,149,084,398	2,655,309,097
The Bank of Punjab	A1+	AA	PACRA	-	251,805,586
Bank Alfalah Limited	A1+	AA+	PACRA	13,237,194	2,737,710
		Sub total:-		6,370,064,441	7,146,939,157

	Rating			2018	2017
	Short term	Long term	Agency	(RUPEES)	
Bank Al-Habib Limited	A1+	AA+	PACRA	295,420,845	8,255,304
Meezan Bank Limited	A-1+	AA	JCR-VIS	425,826,120	-
Soneri 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+	AA	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	A-1	A-	JCR-VIS	1,630,035	101,460
JS Bank Limited	A1+	AA-	PACRA	5,074,003	16,392,220
Silkbank 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	A1	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	A1	A	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 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 2018:

	Carrying amount	Contractual cash flows	6 months or less	6-12 months	1-3 years	More than 3 years
	(RUPEES)					
Non-derivative financial liabilities:						
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	-	-	-	8,164,534,805
Trade and other payables	116,046,041,236	116,046,041,236	116,046,041,236	-	-	-
Accrued mark-up	7,823,989,341	7,823,989,341	7,197,300,878	-	626,688,463	-
	145,711,383,551	165,409,374,299	127,279,491,395	436,496,001	3,126,086,175	34,567,300,728

Following are the contractual maturities of financial liabilities as at 30 June 2017:

	Carrying amount	Contractual cash flows	6 months or less	Less than 1 year	1-3 years	More than 3 years
	(RUPEES)					
Non-derivative financial liabilities:						
Long term financing	12,684,452,732	31,058,416,527	3,229,292,563	368,002,124	2,208,012,744	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	-	-	-
Accrued mark-up	6,594,081,462	6,594,081,462	6,302,177,109	-	291,904,353	-
	76,424,994,516	94,806,958,311	59,467,749,293	368,002,124	2,499,917,097	32,473,289,797

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 RUPEES	2017 RUPEES
	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
	145,711,383,551	76,424,994,516

34.3 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.

35. 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, 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 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.

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; intangible assets including Enterprise 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 monetary values. Consequently, the related tangible and 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

These financial statements were authorized for issue on 08 OCT 2018 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	RECLASSIFICATION		RUPEES
	FROM	TO	
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

DIRECTOR

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/MYT Petition/ 29688-90 **Date** 03 MAY 2021

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-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 Received
Dy No. 2910
Dated 19-5-21

REGISTRAR 8496 17-5-2021

2021

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.

2021

DISTRIBUTION COMPANY INTEGRATED INVESTMENT PLAN (DIIP) - MEPCO FOR F.Y 2020-21 TO F.Y 2024-25

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MEPCO Khanewal Road Multan.

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

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2021

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.

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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

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

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

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

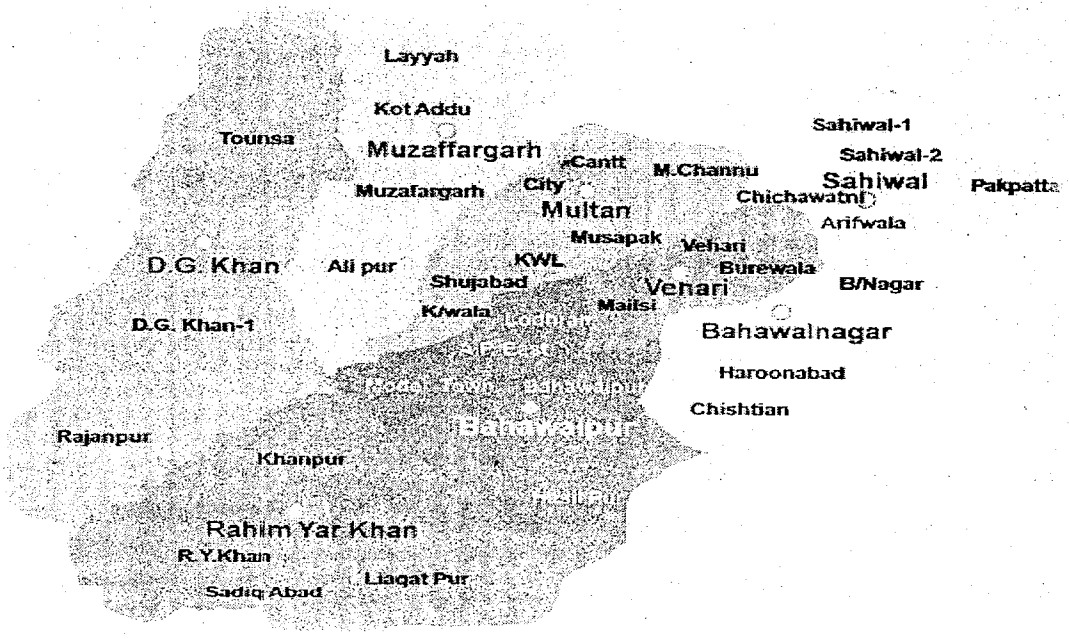
i. General Information

- **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**

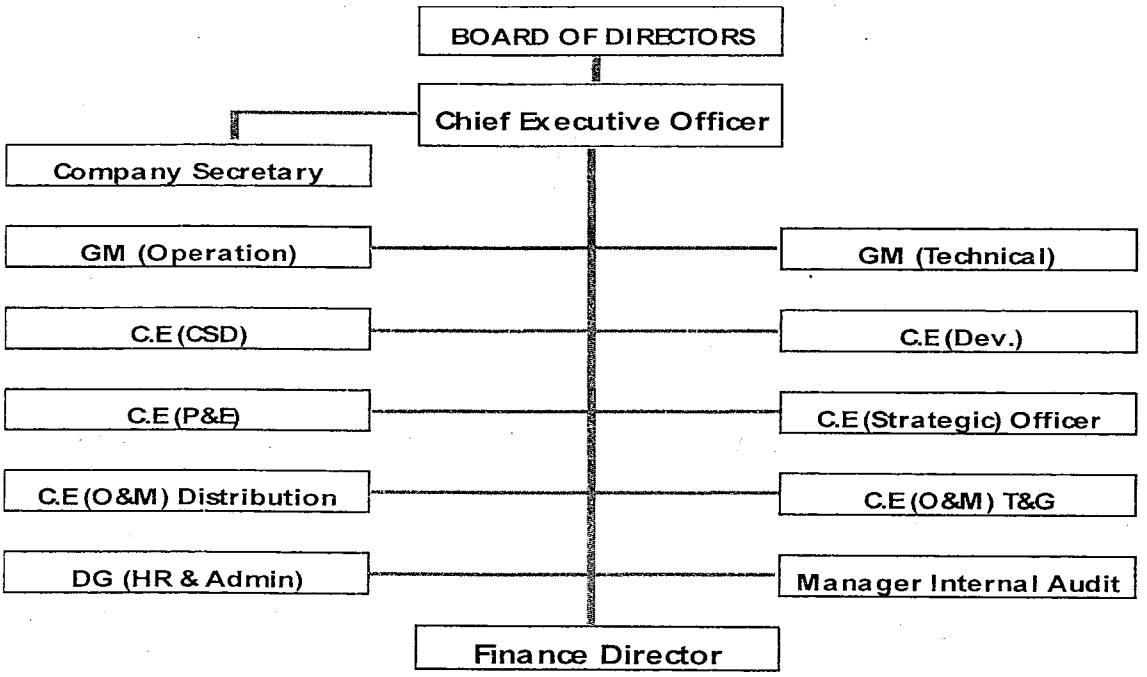
The network facilities of Multan Area Electricity Board (MAEB) of WAPDA were transferred to MEPCO after its incorporation. MEPCO's service area comprises of 13 administrative districts of southern Punjab i.e. Multan, Muzaffargarh, Layyah, D.G.Khan, Rajanpur, Lodhran, Bahawalpur, R.Y.Khan, Khanewal, Sahiwal, 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.

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 & 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

- **General level of Investments:** MEPCO has made the following investments in different projects:

(Mln Rs.)

Description	F.Y 2015-16	F.Y 2016-17	F.Y 2017-18	F.Y 2018-19	F.Y. 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 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**

- **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 Ratio	312	308	328	353	384	429

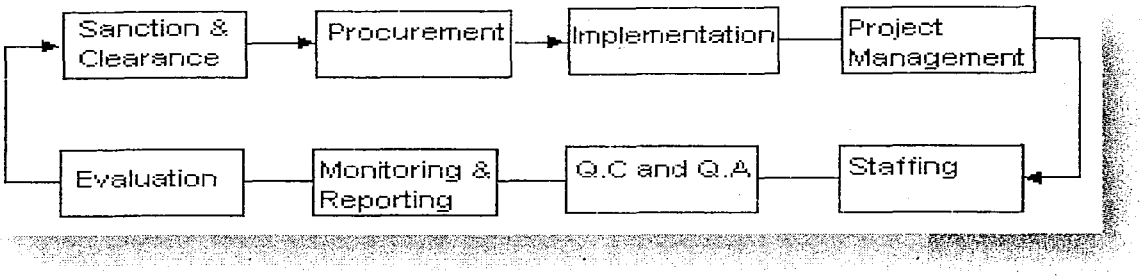
- **Existing Project Design and Implementation System of DISCO**

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**

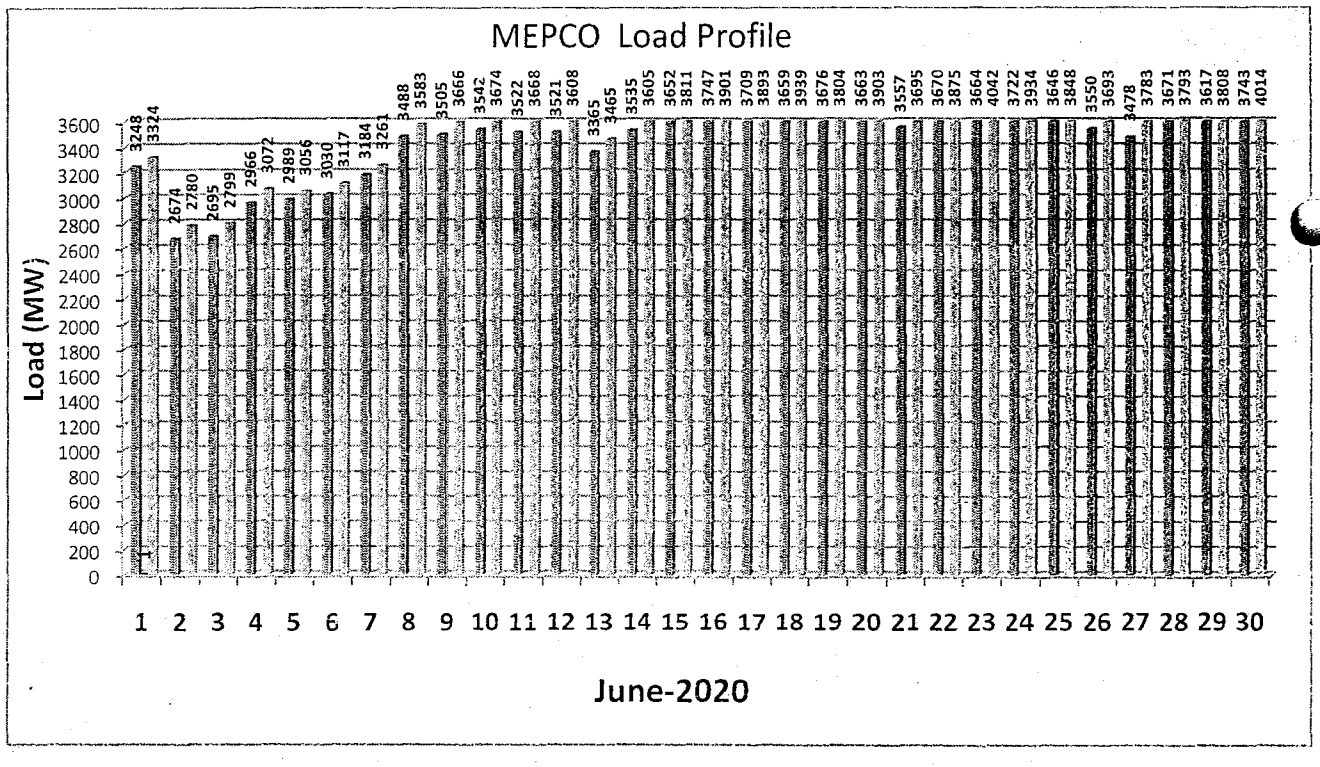
- **Daily Load Demand**

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.

Maximum Demand June-2020

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	Max	Avg.
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		
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	3676	3663	3557	3670	3664	3722	3646	3550	3478	3671	3617	3743	3747	3456
Schedule Load Shedding (MW)	76	106	104	106	67	87	77	95	161	132	146	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	3668	3608	3465	3605	3811	3901	3893	3939	3804	3903	3695	3875	4042	3934	3848	3693	3783	3793	3808	4014	4042	3614

Below is the graphical representation of load fed below and computed demand, the difference is the load-shedding:



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:

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 make 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 (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

Sr #	CATEGORY	Working				Total
		Distt.	GSO	GSC	IT Staff	
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
	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

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**

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.

MEPCO SERVERS & STORAGE & Network INFRASTRUCTURE (EXISTING)						
Sr. No	Device Name	Type	Quantity	Location	Software / Application / OS / DB	Project Name
1	HP DL-380 G8	Rack Mount Server	1	DC MEPCO	**Software** ERP-SAP (PRD, QAS, DEV, SOL, App) / **OS** Linux SUSE **DB** SYBASE ECC-6	ERP-SAP
	HP BLc7000 enclosure	Blade server enclosure	1	DC MEPCO		
	HP BL460c Gen 8	Blade Servers	2	DC MEPCO		
	HP BL460c Gen 9	Blade Servers	7	DC MEPCO		
	HP DL-360 Gen 9	Rack Mount Server	2	DC MEPCO		
	HP DL-60	Rack Mount Server	1	DC MEPCO		
	HP 1840 Store Easy	NAS	1	DC MEPCO		
	Dell Equal Logic PS6210Xs	SAN	1	DC MEPCO		
	HP MSL 4048	Tape Library	1	DC MEPCO		
	Juniper SRX-3400	Router Cum Firewall	2	DC MEPCO		
	Huawei USG 6650	NGFW	2	DC MEPCO		
	Cisco 6807-XL	Core Switch (L2+L3+L4)	1	DC MEPCO		
	N5K-C5548UP-FA Cisco Nexus 5548Up Switch	Switch	1	DC MEPCO		
	Juniper Srx-210	Router Cum firewall (Remote Offices)	19	MEPCO FORMATION		
	Cisco 2960-XL	Access Switches for HQ	16	MEPCO FORMATION		
	Cisco 2960-XL	Switch (Remote Office)	24	MEPCO FORMATION		
	Cisco C3650	Switch (layer 2+Layer3)	1	MEPCO FORMATION		
	AIR-CAP 1552	Cisco Wireless Bridge	2	MEPCO FORMATION		
	AIR-CAP1602	Cisco access point	17	MEPCO FORMATION		
	APC UPS (650, 1KVA, 2KVA)	UPS	23	MEPCO FORMATION		
	Power, Access Control, Fire Supperation& Cooling System	Power Modules, Battery Modules, ATS Panel, Genset	1	DC MEPCO		
	Desktop PCs	PCs	350	MEPCO FORMATION		
	Laptop	Laptop	25	MEPCO FORMATION		
	UPS	UPS	350	MEPCO FORMATION		
	HP Printers	Printers	125	MEPCO FORMATION		
	Scanner	Scanner	53	MEPCO FORMATION		

MEPCO SERVERS & STORAGE & Network INFRASTRUCTURE (EXISTING)						
Sr. No	Device Name	Type	Quantity	Location	Software / Application / OS / DB	Project 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		
	Cisco C-1941	Router (Remote Office)	9	MEPCO FORMATION		
	Cisco C-1921	Router (Remote Office)	1	MEPCO FORMATION		
	Cisco 800 Series	Router	18	MEPCO FORMATION		
	Cisco 2900 Series	Switch	32	MEPCO FORMATION		
	UPS 10 KVA	UPS	2	MEPCO FORMATION		
	KM-Pro-951	Heavy Duty Laser Printer	7	MEPCO FORMATION		
	Canon IR Adv 8595 & 6265 Printers	Heavy Duty Laser Printer	3	MEPCO FORMATION		
	HP M806	Heavy Duty Laser Printer	3	MEPCO FORMATION		
	Line Printers	Heavy Duty Laser Printer	11	MEPCO FORMATION		
	Desktop PCs	PCs	202	MEPCO FORMATION		
	Laptops	Laptop	12	MEPCO FORMATION		
	Printer	Printer	79	MEPCO FORMATION		
	UPS	UPS	39	MEPCO FORMATION		
	Scanner	Scanner	1	MEPCO FORMATION		
3	Dell Power Edge R430 Server (Backup Server + Domain)	Rack Mount Server	2	DC MEPCO	**Software** MicroStar AMI **OS** Window Server 2012 **DB** MS SQL Mongo	RF
	Dell PowerEdge R730 Server (HA Cluster for Database & Application Server)	Rack Mount Server	2	DC MEPCO		
	Dell SCv2020 Storage System	SAN	2	DC MEPCO		
	Dell Power Vault TL1000	Tape Library	2	DC MEPCO		
	Cisco ISR 4351 (3GE, 3NIM,25M, 4G Flash, 4G DRAM, IPB)	Router	2	DC MEPCO		
	Cisco Catalyst 3650 24 port Data 4x1G Uplink	Switch	2	DC MEPCO		
	Brocode FC Switch	Switch	2	DC MEPCO		

MEPCO SERVERS & STORAGE & Network INFRASTRUCTURE (EXISTING)						
Sr. No	Device Name	Type	Quantity	Location	Software / Application / OS / DB	Project Name
4	PowerEdge R620, Intel ,Xeon , E-26XX v2	Server	5	DC PITC	**Application** AMI Galaxy **OS** Windows Server 2012 **DB** MS SQL VM Ware-5	AMI
	Backup & CDP Appliance Dell PowerVault DL4000	Server	1	DC PITC		
	1-NMS &1- vCenter Server Power Edge R 320	Server	2	DC PITC		
	Equallogic PS6210E	SAN	1	DC PITC		
	Dell Power Vault TL4000	Tape Library	1	DC PITC		
	MOXA GSM Modems N-Port (5610) 8 Port RS-232	Device Server	6	AMI Cell		
	Dell Sonic Wall NSA 4500 appliances	FW	1	DC PITC		
	Dell Netowrking N4032F, 24x 10GbE SFP + Fixed Ports, 1x Modular bay, 2x Power Supplies	Switch	2	DC PITC		
	Dell Networking N3024, L3, 24x 1GbE, 2x10Gbe SFP + fixed ports, stacking, IO	Router	2	DC PITC		
	Sonicwall TZ 215	FW	1	AMI Cell		
	Mikrotik Router Board 750	Firewall cum Router	1	AMI Cell		
	Desktop PCs	PCs	194			
	UPS	UPS	194			
	Printer	Printer	194			
5	HP Proliant ML310c Gen8 Server Machine	Server	1	DC PITC	**Application** Hexing AMI G3 **OS** Windows Server 2008 **DB** Oracle	EAS AMR KBK
	Seltec Powerlink 1600 UPS 100AH	UPS	1	DC PITC		
6	Data Base and Web Linus (Model: Dell Power Edge R710, HDD: 1 TB, RAM: 24GB, Cores: 4 [2.4GHz]	Server	1	DC PITC	**Application** AMI Galaxy **OS** Windows Server 2012 **DB** MS SQL	EAS AMR MTI
	UPS alongwith batteries	UPS	1	DC PITC		

MEPCO SERVERS & STORAGE & Network INFRASTRUCTURE (EXISTING)						
Sr. No	Device Name	Type	Quantity	Location	Software / Application / OS / DB	Project Name
7	Web Server (HP Proliant ML310e Gen8 Server Machine)	Server	1	DC PITC	**Application** ESEP **OS** Windows Server 2008 **DB** MS SQL	EAS AMR IMS
	UPS alongwith batteries	UPS	1	DC PITC		
8	Core i5 (HP Elite Desk 800 G2) Tower PC with 16 GB RAM	Computer System	1	DC MEPCO	Windows Server 2018 (Temporary basis)	Unmanned Grid by KICS
9	CISCO Small Buisness RV042	Switch	1	MPCC	-	MPCC
10	HP Itanium, rx 3600 / rx 2620-2, 1.4 GHz, 2 Processors, Dual Core, 4 GB RAM, 3 x 146 GB SASH DD, DAT72 & Ultrium 448, redundant Power Supplies, rack mount 17" TFT.		5	IT Centers, Multan, DGK, Bahawalpur, Sahiwal & RYK	**App** WEB **OS** Open VMS	Cobol Billing Infra
	UPS Emerson 10 KVA, GE 6 KVA, Voltac 3 KVA	UPS	14			
	Stablizer 10 KVA GL-10 KVAST	Stablizer	3			
11	Bio Matric Machines ZK Techo	BioMatric	16	MEPCO FORMATION	-	Other

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

The Table below gives an illustration of the billing and collection pattern of MEPCO:

(Revenue in Million Rs)

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

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

- **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**

  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.

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
- 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.

i. Consumer Growth by Category

Category/ Year	Domestic	Commercial	Small Industry	Industrial	Bulk	T/ Well	Public 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

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

Category-wise Energy Sales (GWh) – Excluding Load Shedding

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 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 **achieved optimally** 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**:

DIIP1 - Goals and Objectives Matrix

Strategic Goals	Strategic Objectives	Target Measurement	Measurement FY 2019-20	Five Year Objectives FY 2020-21 to 2024-25					Supporting Plan
				2020-21	2021-22	2022-23	2023-24	2024-25	
1.0 Improve Operational Efficiency	1.1 Reduce overall electricity losses	%.of kWh	15.2%	15.0%	14.75%	14.6%	14.4%	14.3%	DIIP-Transmission and Distribution Plan
	Improving voltage profile To meet specified regulatory performance standards	% of specified voltage	(+ -) 13%	Improved	Improved	Improved	Improved	Within acceptable limits	
	Improve power factor to meet specified regulatory standards	0.95%	Average 0.92	Improved	Improved	Improved	Improved	Average 0.95	
	Reduce distribution transformers failure rate to <1%	Less than 1%	Reported 0.3%	Improved	Improved	Improved	Improved	Improved	
	Improve HT/LT ratio to 2:1	Ratio	1.56:1	Improved	Improved	Improved	Improved	Improved	

Strategic Goals	Strategic Objectives	Target Measurement	Measurement FY 2019-20	Five Year Objectives FY 2020-21 to 2024-25					Supporting Plan
				2020-21	2021-22	2022-23	2023-24	2024-25	
1.0 Improve Operational Efficiency	1.1.2 Reduce Commercial Loss	% of KWh	0.3 % loss has been reduced. Therefore 1% commercial loss will be reduced.	0.3%	0.2%	0.2%	0.2%	0.1%	DIIP-commercial improvement Plan (CIP)
	1.2 Maintain Revenue recovery up to 100%	%age billed amount excluding subsidy	100%	100%	100%	100%	100%	100%	
	1.3 Reduce meter reading to bill delivery time 1 days	Days	7	7	7	7	7	7	
	1.4 Improve SAIDI/SAIFI To meet specified regulatory performance standards	Hours/No.'s	Over specified limits of NEPRA	To comply with NEPRA specified standards					DIIP-Transmission & Distribution Plan
	1.5 Eliminate fatal & non-fatal accidents	No of accidents	10/10	Eliminate	Eliminate	Eliminate	Eliminate	Eliminate	
	1.6 Automation of Financial, HR and Material Management Processes		Partial Through ERP	Partial DISCO	Partial DISCO	Partial DISCO	Complete DISCO	Complete DISCO	DIIP-Financial Management Improvement Plan (FMIP)
	1.7 E-Transfer of bank scrolls by 100%	%age of collection	60% of collection	All					

Strategic Goals	Strategic Objectives	Target Measurement	Measurement FY 2019-20	Five Year Objectives FY 2020-21 to 2024-25					Supporting Plan
				2020-21	2021-22	2022-23	2023-24	2024-25	
Improve SAP	SAP Pension System	HCM System Improvement	-	Work in Process	70%	30%	100%	100%	DIIP-Financial Management Improvement Plan (FMIP)
	SAP HCM Workflows	HCM System Improvement	-	20%	60%	20%	100%	100%	
	SAP E-tendering	MM System Improvement	-	10%	90%	100%	100%	100%	
	SAP FICO Integration with CIS (ORACLE)	FICO System Improvement		NIL	20%	40%	40%	100%	
	SAP Plant Maintenance/Project System	New SAP Module	-	NIL	10%	25%	25%	40%	
	SAP Dash Board	New SAP Module		NIL	NIL	40%	60%	100%	
	SAP Upgrade to HANA	Improvement SAP		NIL	NIL	NIL	20%	80%	
Improve Regulatory Affairs	1.12 Regulatory MYT Affair	5 Year MYT Petition	-	-	Determination / Notification				
2.0 Improve Customer Care and Service	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%	DIIP-commercial improvement Plan(CIP)
	2.2 Minimize New Connections installation duration	No of days	NEPRA's Guidelines not complied with	To Comply with Consumer Service Manual					
	2.3 Minimize Reconnection installation duration	No of days	NEPRA's Guidelines not	To Comply with Consumer Service Manual					
	2.4 Maximize the time between date of receipt of bill and due date (10 days)	Days	7	7	10	10	10	10	

Strategic Goals	Strategic Objectives	Target Measurement	Measurement FY 2019-20	Five Year Objectives FY 2020-21 to 2024-25					Supporting Plan
				2020-21	2021-22	2022-23	2023-24	2024-25	
3.0 Improve MEPCO's Infrastructure	3.1 Human-ware								
	3.1.2 Start Training & capacity building initiatives		Legacy training	Training needs analysis (TNA), Training plans					DIIP-Human Resource Improvement Plan (HRIP)
	3.2 Orgaware								
	3.2.1 Manpower Plan & Revision of Organization Structure		Implemented	Align organization structure with Business Strategy					DIIP-Human Resource Improvement Plan (HRIP)
	3.2.2 Improve office facilities, Training Facilities / work environment		Inadequate facilities	Needs improvement					
	3.2.5 Improvement in health & education facilities for employees		Health Care Policy Implemented & new educational scholarship under approval	Approval by BOD for Well fare Policies particularly educational scholarships					

Strategic Goals	Strategic Objectives	Target Measurement	Measurement FY 2019-20	Five Year Objectives FY 2020-21 to 2024-25					Supporting Plan
				2020-21	2021-22	2022-23	2023-24	2024-25	
3.0 Improve MEPCO's Infrastructure	**3.3 Techno ware**								
	3.3.1 AMI expansion		**AMI Project being expanded**	All remaining 212570 Three Phase meters will be converted to Smart Meters.					DIIP-Commercial Improvement Plan (CIP)
	3.3.2 P&E expansion to GIS Mapping		**Fully implemented**	Further improvement in 5-years					DIIP-Transmission and Distribution Plan
	3.4 Infor ware								
	3.4.1 Implement ERP & its rollout		**ERP project implemented**	IT infrastructure to be extended and new modules to be implemented					DIIP-Financial Management Improvement Plan (FMIP)

Strategic Goals	Strategic Objectives	Target Measurement	Measurement FY 2019-20	Five Year Objectives FY 2020-21 to 2024-25					Supporting Plan
				2020-21	2021-22	2022-23	2023-24	2024-25	
	3.4.2 Implement CIS & its rollout		CIS completed in all Circles	Time to time development as per the requirements of data based on consumers					DIIP-Commercial Improvement Plan (CIP)
	3.4.3 Strengthening Data Centre		Complete Operational data Centre	Full Utilization of Data Centre by replacing the End of Life (EOL) equipment with updated technology and smooth transition of applications accordingly. Shifting of CIS/AMI/GIS servers from PITC Data Center at Lahore to MEPCO Data Center, Multan as MEPCO Data Center, Multan is well equipped as compared to PITC Data Center.					
	3.4.4 Improve communications through email		Paper based communication	Promote e-communication culture (outlook)					DIIP-Communication 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[1]), 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).

[1] NEPRA Performance Standards (Distribution) Rules, 2005 and Distribution Codes were consulted while preparing these objectives.

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 Million**as required under the achievable scenario and not Rs. **113,123 Million**as 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 back-office 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

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 / up-gradation 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/under-execution projects have been included.

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**)

iii. Reduction In Losses (Best Case)

Year	MW	Units (MKWh)
	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

iv. Reduction In Losses (Achievable Case)

Year	MW	Units (MKWh)
	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. Grid Stations (Best Case)

DIIP 2 - Grid Stations

Sr. No.	Description	Total No.	Total Capacity (MVA)	2020-21 (No)	2021-22 (No)	2022-23 (No)	2023-24 (No)	2024-25 (No)
1	New							
a	132 KV	29	1876	5	7	6	5	6
2	Conversion							
a	66 to 132 KV	2	65	1	-	1	-	-
3	Augmentation							
a	132 KV	55	1008	10	11	11	11	12
4	Extension (Transformer)							
a	132 KV	49	1267	10	10	9	10	10
5	Capacitors							
a	132 KV	13	-	5	3	3	2	-
6	Conversion of ISO Bay							
a	132 KV	-	-	20	-	-	-	-
7	Ext: of 11 KV Control House							
a	132 KV	-	-	11	9	5	1	2
8	Twin Bundle							
a	132 KV	-	-	11	6	3	-	-

b. Transmission Lines (Best Case)

i. New Lines& Reconductoring

Sr. No.	Description	Total Length	Year-1	Year-2	Year-3	Year-4	Year-5
		(km)	(Km)	(Km)	(Km)	(Km)	(Km)
1	132 KV D/C (Rail)	140	47	8	77	-	8
2	132 KV D/C (Lynx)	140	72.5	29	17.5	7.5	13.5
3	133 KV D/C (Dog)	1	1	-	-	-	-
4	132 KV SDT (Rail)	472.5	85.9	194	13	118.6	61
5	132 KV SDT (Lynx)	255	206	29	-	20	-
6	Reconductoring	1142.5	201.5	416	251	195	79
7	Second Circuit Stringing (Lynx)	149.5	34.5	29	86	-	-

- **Expansion and Rehabilitation (Achievable Case) - Scope**

The scope of Work for the Five-Year Plan is tabulated here under:

c. Grid Stations (Achievable Case)

DIIP 3 - Grid Stations

Sr. No	Description	Total No.	Total Capacity (MVA)	Year 1 (No)	Year 2 (No)	Year 3 (No)	Year 4 (No)	Year 5 (No)
1	New							
a	132 KV	26	1716	5	5	5	6	5
2	Conversion							
a	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 Bay							
a	132 KV	20	-	-	20	0	0	0
7	Ext: of 11 KV Control House							
a	11 KV	26	-	-	11	9	5	1
8	Twin Bundle Bus Bars							
a	132 KV	20	-	-	11	6	3	0

d. Transmission Lines (Achievable Case)

ii. New Lines

DIIP 4 – Transmission Lines: New Lines& Reconductoring

Sr. No.	Description	Total Length (km)	Year-1 (Km)	Year-2 (Km)	Year-3 (Km)	Year-4 (Km)	Year-5 (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 (Lynx)	112	26	-	-	86	-

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)

The table DIIP 14 captures the complete scope under Best Case for distribution system:

DIIP5 - Distribution System (Best Case)

Sr. No.	Description	Unit	Quantities					
			2020-21	2021-22	2022-23	2023-24	2024-25	Total
Scope of Work for 11 kV and Below Expansion (Dedicated Feeders on Cost Deposit Basis)								
A								
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 Work for LT Expansion (Village Electrification on Cost Deposit Basis)								
B								
1	**New LT Lines**							
	Number of Works	Nos	1720	2100	3096	2000	1900	**10816**
	Length of new LT line	Km	421	515	759	490	466	**2650**
2	**Transformers**							
	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 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.

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
	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-kv Sectionalizers	Nos	315	435	465	480	435	**2130**
7	11-Kv 500 MCM Cable	Km	38	52	56	58	52	**256**
Scope of Work for LT Rehabilitation								
B.	**LT Lines Rehabilitation**							
	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 Transformers**							
	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/Sluggish)**							
	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**

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:

KM Line			
Osprey	67.55%	6149 x 0.6755	4154 Km
Dog	22.84%	6149 x 0.2284	1404 Km
Rabbit	09.61%	6149 x 0.0961	591 Km
			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 710 Nos.

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%	3976 x 0.5142	2044 KM
Dog	40.70%	3976 x 0.4070	1618 KM
Rabbit	07.88%	3976 x 0.0788	314 KM
			Total 3976 KM

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.

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%)	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	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 %	1491 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 rehabilitation		852 Nos.
Average length of S/C cable per feeder		300 M
Therefore length of cable required	0.3 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 x 4565 = 2100 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-φ, Wasp)	4565 x 0.173	790 km

ABC Cable

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 Nos.
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 Nos.
New additional transformer sub-stations required: 4565 x 90%	=	4109 Nos.

Share of Different Ratings of Transformers

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 %	502 Nos.
		Total:	4109 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 =	8362	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%)		834784 Nos.
	Total:	4,173,916 Nos.

- **Expansion and Rehabilitation (Optimally Achievable Case) - Scope**

The table DIIP 15 captures the complete scope under Achievable Case for distribution system:

DIIP6 - Distribution System (Optimally Achievable Case)

Sr. No.	Description	Unit	Quantities					
			2020-21	2021-22	2022-23	2023-24	2024-25	Total
Scope of Work for 11 kV and Below Expansion (Dedicated Feeders on Cost Deposit Basis)								
A.								
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 Work for LT Expansion (Village Electrification on Cost Deposit Basis)								
B.								
1	**New LT Lines**							
	Number of Works	Nos	1720	2100	3096	2000	1900	**10816**
	Length of new LT line	Km	421	515	759	490	466	**2650**
2	**Transformers**							
	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 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 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.

Scope of Work for 11 kV and Below Rehabilitation								
A.	Rehabilitation of HT Lines	Unit	Quantities					
			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	Km	27	30	29	33	33	**152**
Scope of Work for LT Rehabilitation								
B.	**LT Lines Rehabilitation**							
	Number of proposals	Nos	591	675	690	700	750	**3406**
8	New LT Lines	Km	272	311	317	322	345	**1567**
9	LT Line Reconductoring(with Wasp)	Km	102	117	119	121	130	**589**
	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**
	d. 200 KVA	Nos	65	74	76	77	83	**375**
	Sub Total	Nos	**532**	**608**	**621**	**630**	**675**	**3065**
13	**Augmentation of Overloaded Transformers**							
	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	111	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/Sluggish)**							
	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**

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	359 Km
			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%
Rabbit	07.80%

Number of feeders for rehabilitation 422 Nos.

Therefore, total re-conductoring length (422 x 5.60) 2363 Km

The quantities of ACSR conductors required for re-conductoring are therefore:

KM Line

Osprey	51.42%	2363 x 0.5142	1169 KM
Dog	40.70%	2363 x 0.4070	924 KM
Rabbit	07.88%	2363 x 0.0788	270 KM
			Total 2363 KM

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 2019-20		177,716 Nos.
Replacement of earthing is estimated on 20% of transformers,		
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	3 Nos.
Total number of 11 kV sectionalizers required (3 x 422)	1266 Nos.

Share

Sectionalizers 600 Amps 30 %	380 Nos.
Sectionalizers 200 Amps 70 %	886 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 rehabilitation		506 Nos.
Average length of S/C cable per feeder		300 M
Therefore length of cable required	0.3 x 506 =	152 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		3406 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 Nos.
New additional transformer sub-stations required: 3406 x 90%	=	3065 Nos.

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 %	375 Nos.
		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 =	8362	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%)		834784 Nos.
	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. No.	Description	Unit	Quantities					
			2020-21	2021-22	2022-23	2023-24	2024-25	Total
GIS Mapping								
	HT Mapping GIS (Mapping of 1439 No 11 kV feeders having length 79174 KM 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	Km	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 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

Tools And Plants for HT

Sr. No	Description	H/Q	Circle	Division	Sub Division	Quantity	Amount Rs	Total Rs Millions	Remarks
	GPS Sets		9 X 4	38 X 4	176 X 2	540.00	19500.00	10.53	60 GPS sets 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	
								33.00	

Tools And Plants For LT

Sr. No	Description	H/Q	Circle	Division	Sub Division	Quantity	Amount Rs	Total Rs 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	

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

Commercial DIIP- MEPCO

#	Scope	FY21	FY22	FY23	FY24	FY25	5-Y Total
1	Mobiles for MRs (Nos)			1,084	2,073		3,157
2	(a)Total 3-Phase Connections (All Tariffs) 5 KW & above sanctioned 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:
  - 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:
  - Reducing complaints related to billings to less than 0.01%
  - 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:
  - Expansion of AMI to reduce commercial losses at high-end customers, this contributes to reduction in commercial loss

Other related objectives:

- Streamlined procedure without compromising system of internal controls
- Re-direction of documents on an efficient path to reduce revenue cycle and process cycle time
- 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 theft. 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.

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:

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

- 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.

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 real-time 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.

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 3rd 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.

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 detailsto 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.

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 DIIP - MEPCO						
#	Scope	FY21	FY22	FY23	FY24	FY25	5-Year Total
1	Improving the Working Env. Of offices & training facilities	Furnishing the Office Buildings with new furniture and allied equipment in order to improve the working					-
2	Trainings	Trainings of officers and officials to improve skills					-
3	Improving Health & Education facilities	Implementation of Well fare Policies particularly educational scholarships					
4	Manpower Plan & Revision of 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:

Human-ware:

- Improving MEPCO's infrastructure:
  - Starting training and capacity building initiatives
  - Staffing / Recruitment

Org-ware:

- Manpower Plan & Revision of Organization Structure
- Improving office facilities/work environment
- Conducting motivational campaigns
- 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 implemet 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 Pickups	471	Fork Lifters	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	FY 2020-21		FY 2021-22		FY 2022-23		FY 2023-24		FY 2024-25	
	No.	Total	No.	Total	No.	Total	No.	Total	No.	Total
Bucket Mounted Vehicle	28	284	28	8	28	10	28	11	28	13
Crane		-		-		-		-	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.

Category		2019-2020	
		No. of Participants	Financial Implication (Estimated)
Officers	BPS-18/19	27	16929000
	BPS-16/17	47	15259000
Officials	BPS-05 to 15 (RTC)	663	41017821
	BPS-05 to 15 (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.

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	C-Type	D-Type	E-Type	F-Type	Total
1	59	90	253	495	784	1691

- **Official Hostels**

Sr. No.	Hostels	Total No. Rooms	Full Room Allotted	Room Allotted Sharing Basis	No of Officers residing in 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.
  - 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.

DIIP 10- Staffing Plan aligned with Investment Plan

STAFFING PLAN								
Sr. No	Title	BPS	Total Nos.	F.Y. 2020-21	F.Y. 2021-22	F.Y. 2022-23	F.Y. 2023-24	F.Y. 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	
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	
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

Sr. No	Title	BPS	Total Nos.	F.Y. 2020-21	F.Y. 2021-22	F.Y. 2022-23	F.Y. 2023-24	F.Y. 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 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 (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

Sr. No	Title	BPS	Total Nos.	F.Y. 2020-21	F.Y. 2021-22	F.Y. 2022-23	F.Y. 2023-24	F.Y. 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	1
68	Graphic Designer	11	0	1	0	0	0	
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	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

Sr. No	Title	BPS	Total Nos.	F.Y. 2020-21	F.Y. 2021-22	F.Y. 2022-23	F.Y. 2023-24	F.Y. 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

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

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.

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 elininate 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 + Core) DIIP-Business Plan- MEPCO - Best Case

In Million Rs.

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* (Capex Plans + Opex Plans)	19,588	22,815	24,625	23,333	22,762	113,123

*Excluding Cost Deposit Expenditure

Total Core Business - Transmission and Distribution Plans DIIP-MEPCO --- Best Case

In Million Rs.

	Capex	FY21	FY22	FY23	FY24	FY25	5-Year Total
1	Distribution 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 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 Support Business - DIIP(Best Case)- MEPCO

In Million 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

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 Business - DIIP- MEPCO (Achievable)

Total Capex Support Plans	FY21	FY22	FY23	FY24	FY25	In Million Rs. 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

Total Core Business - Transmission and Distribution Plans DIIP-MEPCO --- Achievable

	Capex	FY21	FY22	FY23	FY24	FY25	In Million Rs. 5-Year Total
1	Distribution 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 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	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

Total (Support + Core) DIIP-Business Plan- MEPCO - Achievable

In Million Rs.

Total Capex Plans	FY21	FY22	FY23	FY24	FY25	5-Year 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
Grand Total* (Capex 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. Grid Stations

DIIP 14 - STG Expansion and Rehabilitation: Grid Stations

Rs. In Million

Description	YEAR					
	2020-21	2021-22	2022-23	2023-24	2024-25	TOTAL COST (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 Bay	194	0	0	0	0	**194**
Ext: of 11KV 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**

- STG- Expansion and Rehabilitation (Achievable Case)
  b. Grid Stations

DIIP 15 - STG Expansion and Rehabilitation: Grid Stations

Rs. In Million

Description	YEAR					
	Year-1	Year-2	Year-3	Year-4	Year-5	Total Cost (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

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 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**

▪ Distribution System-Expansion and Rehabilitation (Best Case)

DIIP16 - Distribution System Expansion and Rehabilitation (Best Case)

Scope of Work for 11 kV and Below Rehabilitation

A.		Million 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							
B.	**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**						
	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 Transformers**						
	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**
	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)	2,956	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 Store & installation Charges 20%)		**6,201**	**7,260**	**7,555**	**7,715**	**7,487**	**36,218**
Total Cost of Distt. Rehabilitation (including Store, installation Charges(20%), Contingency Charges (2%), Escalation per annum (6.5%))		**6,304**	**7,795**	**8,687**	**9,445**	**9,727**	**41,958**

Cost for GIS Mapping and P&E:

Description	Unit	Scope of Work					
		2018-19	2019-20	2020-21	2021-22	2022-23	Total
11 KV Feeders Mapping	MRs.	0.34	0.31	0.29	0.28	0.24	1.46
LT Circuits Mapping	MRs.	0.58	2.69	2.74	2.74	2.74	11.47
Tools 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)**

DIIP17 - Distribution System Expansion and Rehabilitation (Optimally Achievable Case)

Scope of Work for 11 kV and Below Rehabilitation

A.		Million 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**
	Sub Total	**561**	**640**	**655**	**664**	**712**	**3231**
13	**Augmentation of Overloaded Transformers**						
	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 Store & 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%), Contingency Charges (2%), Escalation per annum (6.5%))		**4,576**	**5,543**	**5,793**	**6,067**	**6,337**	**28,316**

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

Commercial DIIP- MEPCO

In Million Rs

#	Capex	FY21	FY22	FY23	FY24	FY25	5-Year Total
1.1	Mobile Phones for MRs.	6	35	130	111	6	289
1.2	Data Center		1,490	2,238	1,724	1,322	6,774
1.3	AMRs and Elec Meters	225	622	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**

In Million Rs

#	Opex	FY21	FY22	FY23	FY24	FY25	5-Year Total
1.1	Mobile Phones for MRs.	3	5	36	53	84	181
1.2	Data Center		118	252	212	143	725
1.3	AMRs and Elec Meters	-	-	-	-	-	-
1.4	CSC	12	12	12	13	14	63
1.5	Surveillance	4	7	9	12	14	46
	Total	**18**	**141**	**310**	**290**	**255**	**1,014**

HR DIIP-MEPCO

Capex		FY21	FY22	FY23	FY24	FY25	In Million Rs 5-Year Total
2.1	Improving Working Environment Of offices & training facilities	699	791	905	1,037	1,193	4,625
2.2	Improving 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 5-Year Total
2.1	HR Development Training and Capacity Building	79	100	107	110	113	509
2.2	Improving Working Environment Of offices & Health Facilities	1,389	1,401	1,587	1,791	2,020	8,188
2.3	Improving Transport Facilities	6	46	97	126	159	434
	Sub-Total-A	1,474	1,547	1,791	2,027	2,292	**9,131**

	Staffing Opex	FY21	FY22	FY23	FY24	FY25	In Million Rs 5-Year Total
2.5		310	766	507	420	380	**2,383**
	Sub-Total-B	310	766	507	420	380	2,383
Total Opex HR (A+B)		1,784	2,313	2,298	2,447	2,672	11,514

Communication DIIP-MEPCO

Capex		FY21	FY22	FY23	FY24	FY25	In Million Rs 5-Year Total
3.0-A	Internal Communication	6	-	11	-	-	17
3.0-B	External Communication	4	-	-	-	-	4
	Total	10	-	11	-	-	**21**

Opex		FY21	FY22	FY23	FY24	FY25	In Million Rs 5-Year Total
3.0-A	Internal Communication	1	1	14	15	15	45
3.0-B	External Communication	28	29	31	33	35	156
	Total	29	30	45	48	50	**202**

Financial DIIP-MEPCO

Capex		FY21	FY22	FY23	FY24	FY25	In Million Rs 5-Year Total
4.0-C	ERP SAP	25	35	10	45	50	165
	Total	**25**	**35**	**10**	**45**	**50**	**165**

Opex		FY21	FY22	FY23	FY24	FY25	In Million Rs 5-Year Total
4.0-A	ERP SAP	-	-	-	-	-	-
	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

Section - VII

Benefits and Financial Analysis

A. **Expansion and Rehabilitation of Secondary Transmission and Distribution System(Best & Achievable Case)**

i. Tangible Benefits

Transmission-Loss Reduction

Year	MW	Units (MKWh)	MW	Units (MKWh)
	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

Additional Energy Available for Sales (Common for Tran Distn)

Year	Best		Achievable	
	MVA Added	Additional Energy For Sales	MVA Added	Additional Energy 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

Distribution Loss Reduction (Best Case)
Savings

Year	HT Rehabilitaion	LT Rehabilitation	Energy Meters	ABC 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 (Optimally Achievable Case)

Saving

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**

Total Loss Reduction - DIIP Best Case						
Loss Reduction MKWh	**FY2021**	**FY2022**	**FY2023**	**FY2024**	**FY2025**	**Total**
Total DIIP Loss Reduction for Achievable for MYT	352.6	287.9	252.6	250.0	222.5	**1365.6**

Total Loss Reduction - DIIP Achievable Case						
Loss Reduction MKWh	**FY2021**	**FY2022**	**FY2023**	**FY2024**	**FY2025**	**Total**
Total DIIP Loss Reduction for Achievable 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
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 Measurement	Measurement FY 2019-20	Five Year Objectives FY 2020-21 to 2024-25					Supporting Plan
				2020-21	2021-22	2022-23	2023-24	2024-25	
	3.4.2 Implement CIS & its rollout		CIS completed in all Circles	Time to time development as per the requirements of data based on consumers					DIIP-Commercial Improvement Plan (CIP)
	3.4.3 Strengthening Data Centre		Complete Operational data Centre	Full Utilization of Data Centre by replacing the End of Life (EOL) equipment with updated technology and smooth transition of applications accordingly. Shifting of CIS/AMI/GIS servers from PITC Data Center at Lahore to MEPCO Data Center, Multan as MEPCO Data Center, Multan is well equipped as compared to PITC Data Center.					
	3.4.4 Improve communications through email		Paper based communication	Promote e-communication culture (outlook)					DIIP-Communication 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[1]), 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).

[1] NEPRA Performance Standards (Distribution) Rules, 2005 and Distribution Codes were consulted while preparing these objectives.

Strategic Goals	Strategic Objectives	Target Measurement	Measurement FY 2019-20	Five Year Objectives FY 2020-21 to 2024-25					Supporting Plan
				2020-21	2021-22	2022-23	2023-24	2024-25	
3.0 Improve MEPCO's Infrastructure	**3.3 Techno ware**								
	3.3.1 AMI expansion		**AMI Project being expanded**	All remaining 212570 Three Phase meters will be converted to Smart Meters.					DIIP-Commercial Improvement Plan (CIP)
	3.3.2 P&E expansion to GIS Mapping		**Fully implemented**	Further improvement in 5-years					DIIP-Transmission and Distribution Plan
	3.4 Infor ware								
	3.4.1 Implement ERP & its rollout		**ERP project implemented**	IT infrastructure to be extended and new modules to be implemented					DIIP-Financial Management Improvement Plan (FMIP)

Strategic Goals	Strategic Objectives	Target Measurement	Measurement FY 2019-20	Five Year Objectives FY 2020-21 to 2024-25					Supporting Plan
				2020-21	2021-22	2022-23	2023-24	2024-25	
3.0 Improve MEPCO's Infrastructure	3.1 Human-ware								
	3.1.2 Start Training & capacity building initiatives		Legacy training	Training needs analysis (TNA), Training plans					DIIP-Human Resource Improvement Plan (HRIP)
	3.2 Orgaware								
	3.2.1 Manpower Plan & Revision of Organization Structure		Implemented	Align organization structure with Business Strategy					DIIP-Human Resource Improvement Plan (HRIP)
	3.2.2 Improve office facilities, Training Facilities / work environment		Inadequate facilities	Needs improvement					
	3.2.5 Improvement in health & education facilities for employees		Health Care Policy Implemented & new educational scholarship under approval	Approval by BOD for Well fare Policies particularly educational scholarships					

Strategic Goals	Strategic Objectives	Target Measurement	Measurement FY 2019-20	Five Year Objectives FY 2020-21 to 2024-25					Supporting Plan
				2020-21	2021-22	2022-23	2023-24	2024-25	
Improve SAP	SAP Pension System	HCM System Improvement	-	Work in Process	70%	30%	100%	100%	DIIP-Financial Management Improvement Plan (FMIP)
	SAP HCM Workflows	HCM System Improvement	-	20%	60%	20%	100%	100%	
	SAP E-tendering	MM System Improvement	-	10%	90%	100%	100%	100%	
	SAP FICO Integration with CIS (ORACLE)	FICO System Improvement		NIL	20%	40%	40%	100%	
	SAP Plant Maintenance/Project System	New SAP Module	-	NIL	10%	25%	25%	40%	
	SAP Dash Board	New SAP Module		NIL	NIL	40%	60%	100%	
	SAP Upgrade to HANA	Improvement SAP		NIL	NIL	NIL	20%	80%	
Improve Regulatory Affairs	1.12 Regulatory MYT Affair	5 Year MYT Petition	-	-	Determination / Notification				
2.0 Improve Customer Care and Service	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%	DIIP-commercial improvement Plan(CIP)
	2.2 Minimize New Connections installation duration	No of days	NEPRA's Guidelines not complied with	To Comply with Consumer Service Manual					
	2.3 Minimize Reconnection installation duration	No of days	NEPRA's Guidelines not	To Comply with Consumer Service Manual					
	2.4 Maximize the time between date of receipt of bill and due date (10 days)	Days	7	7	10	10	10	10	

Strategic Goals	Strategic Objectives	Target Measurement	Measurement FY 2019-20	Five Year Objectives FY 2020-21 to 2024-25					Supporting Plan
				2020-21	2021-22	2022-23	2023-24	2024-25	
1.0 Improve Operational Efficiency	1.1.2 Reduce Commercial Loss	% of KWh	0.3 % loss has been reduced. Therefore 1% commercial loss will be reduced.	0.3%	0.2%	0.2%	0.2%	0.1%	DIIP-commercial improvement Plan (CIP)
	1.2 Maintain Revenue recovery up to 100%	%age billed amount excluding subsidy	100%	100%	100%	100%	100%	100%	
	1.3 Reduce meter reading to bill delivery time 1 days	Days	7	7	7	7	7	7	
	1.4 Improve SAIDI/SAIFI To meet specified regulatory performance standards	Hours/No.'s	Over specified limits of NEPRA	To comply with NEPRA specified standards					DIIP-Transmission & Distribution Plan
	1.5 Eliminate fatal & non-fatal accidents	No of accidents	10/10	Eliminate	Eliminate	Eliminate	Eliminate	Eliminate	
	1.6 Automation of Financial, HR and Material Management Processes		Partial Through ERP	Partial DISCO	Partial DISCO	Partial DISCO	Complete DISCO	Complete DISCO	DIIP-Financial Management Improvement Plan (FMIP)
	1.7 E-Transfer of bank scrolls by 100%	%age of collection	60% of collection	All					

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 **achieved optimally** 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:

DIIP1 - Goals and Objectives Matrix

Strategic Goals	Strategic Objectives	Target Measurement	Measurement FY 2019-20	Five Year Objectives FY 2020-21 to 2024-25					Supporting Plan
				2020-21	2021-22	2022-23	2023-24	2024-25	
1.0 Improve Operational Efficiency	1.1 Reduce overall electricity losses	% of kWh	15.2%	15.0%	14.75%	14.6%	14.4%	14.3%	DIIP-Transmission and Distribution Plan
	Improving voltage profile To meet specified regulatory performance standards	% of specified voltage	(+ -) 13%	Improved	Improved	Improved	Improved	Within acceptable limits	
	Improve power factor to meet specified regulatory standards	0.95%	Average 0.92	Improved	Improved	Improved	Improved	Average 0.95	
	Reduce distribution transformers failure rate to <1%	Less than 1%	Reported 0.3%	Improved	Improved	Improved	Improved	Improved	
	Improve HT/LT ratio to 2:1	Ratio	1.56:1	Improved	Improved	Improved	Improved	Improved	

ANNEXURE-4

NEXT FIVE YEARS GOALS & OBJECTIVES

2024							
1	Tarbela 5th-Extension	Hydro	1,410	1,410	WAPDA	Committed	Sep-23
2	Jamshoro CFPP Unit 2	Imp.Coal	660	644	GENCO	Committed	Dec-23
3	Blue Star	Hydro	3	3	PEDO	Candidate	2024
4	Generic_Candidate Local Coal	Local Coal	1,514	1,514	Yet to be Decided	Candidate	2024
5	Generic_Candidate Solar	Solar	1,500	1,500	Yet to be Decided	Candidate	2024
6	Generic_Candidate Wind_Mid	Wind	300	300	Yet to be Decided	Candidate	2024
7	Generic_Candidate Wind_North	Wind	89	89	Yet to be Decided	Candidate	2024
8	Generic_Candidate Wind_South	Wind	1,000	1,000	Yet to be Decided	Candidate	2024
Generation Additions in 2024 (MW)			6,475	6,459			
Cumulative Addition up till 2024 (MW)			21,668	21,260			
2025							
1	Keyal Khwar	Hydro	128	128	WAPDA	Committed	Sep-24
2	Mohmand	Hydro	800	800	WAPDA	Committed	Nov-24
3	Generic_Candidate Solar	Solar	1,500	1,500	Yet to be Decided	Candidate	2025
4	Generic_Candidate Wind_South	Wind	922	922	Yet to be Decided	Candidate	2025
5	Dasu 1	Hydro	2,160	2,160	WAPDA	Committed	Feb-25
Generation Additions in 2025 (MW)			5,510	5,510			
Cumulative Addition up till 2025 (MW)			27,179	26,770			

27	Hamza Sugar Mills 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.) 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.) Ltd.	Bagasse	40	40	AEDB	Committed	Mar-22
33	Mehran Energy Ltd.	Bagasse	27	26.5	AEDB	Committed	Mar-22
34	RYK Energy Ltd.	Bagasse	25	25	AEDB	Committed	Mar-22
35	Sadiqabad Power (Pvt.) Ltd.	Bagasse	45	45	AEDB	Committed	Mar-22
36	Shahtaj Sugar Mills Ltd.	Bagasse	32	32	AEDB	Committed	Mar-22
37	Sheikhoo Power (Pvt.) Ltd.	Bagasse	30	30	AEDB	Committed	Mar-22
38	TAY Powergen Company (Pvt.) Ltd.	Bagasse	30	30	AEDB	Committed	Mar-22
39	Two Star Energy (Pvt.) Ltd.	Bagasse	50	49.8	AEDB	Committed	Mar-22
Generation Additions in 2022 (MW)			4,851	4,713			
Cumulative Addition up till 2022 (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 Solar	Solar	1,500	1,500	Yet to be Decided	Candidate	2023
4	Generic_Candidate Wind_Mid	Wind	300	300	Yet to be Decided	Candidate	2023
5	Generic_Candidate Wind_North	Wind	200	200	Yet to be Decided	Candidate	2023
6	Generic_Candidate Wind_South	Wind	1,000	1,000	Yet to be Decided	Candidate	2023
7	CASA	Import	1,000	1,000	GOP	Committed	May-23
Generation Additions in 2023 (MW)			4,968	4,968			
Cumulative Addition up till 2023 (MW)			15,193	14,800			

2022							
1	HNDS Energy Pvt. Ltd.	Solar	50	50	AEDB	Committed	Jul-21
2	Helios Power Pvt. Ltd.	Solar	50	50	AEDB	Committed	Jul-21
3	Thar-I (Shanghai 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. Ltd.	Solar	10	10.28	AEDB	Committed	Sep-21
7	Artistic Wind Power Pvt. Limited.	Wind	50	50	AEDB	Committed	Oct-21
8	Meridian Energy Pvt. Ltd.	Solar	50	50	AEDB	Committed	Nov-21
9	Zhenfa Pakistan New Energy Company (Pvt.) Ltd.	Solar	100	100	PPDB/ AEDB	Committed	Nov-21
10	Karot	Hydro	720	720	PPIB/AJK	Committed	Dec-21
11	Jamshoro CFPP Unit 1	Imp.Coal	660	644	GENCO	Committed	Dec-21
12	Gwadar	Imp.Coal	300	273.1	PPIB	Committed	Jan-22
13	Gul Ahmed Electric 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 Ltd.	Wind	50	50	AEDB	Committed	Feb-22
17	Lakeside Energy Pvt. Ltd	Wind	50	50	AEDB	Committed	Feb-22
18	Liberty Wind Power 1 Pvt. Ltd.	Wind	50	50	AEDB	Committed	Feb-22
19	Liberty Wind Power 2 Pvt. Ltd.	Wind	50	50	AEDB	Committed	Feb-22
20	Metro Wind Power Ltd.	Wind	60	60	AEDB	Committed	Feb-22
21	NASDA Green Energy Pvt. Ltd	Wind	50	50	AEDB	Committed	Feb-22
22	Trans Atlantic Energy (Pvt.) Limited	Wind	48	48.3	AEDB	Committed	Feb-22
23	Alliance Power (Pvt.) Ltd.	Bagasse	30	30	AEDB	Committed	Mar-22
24	Bahawalpur Energy 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.) Ltd.	Bagasse	45	45	AEDB	Committed	Mar-22

List of Projects (Committed+Candidate) till 2025 (IGCEP-47)

#	Name of Project	Fuel Type	Installed Capacity	Nominal Capacity	Agency	Status	Schedule of Commissioning
2020							
1	Zorlu Solar Pakistan Pvt. Ltd.	Solar	100	100	PPDB/ 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
Generation Additions in 2020 (MW)			1,441	1,421			
Cumulative Addition up till 2020 (MW)			1,441	1,421			
2021							
1	Etihad Power 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 Ltd.	Wind	50	50	AEDB	Committed	Nov-20
4	Shaheen Renewable Energy-1 Pvt. Ltd.	Wind	51	51	AEDB	Committed	Nov-20
5	Lawi	Hydro	69	69	PEDO	Committed	Jan-21
6	Tricorm Wind Power Pvt. Ltd	Wind	50	50	AEDB	Committed	Feb-21
7	Western Energy Pvt. Limited	Wind	50	50	AEDB	Committed	Feb-21
8	Lucky	Local Coal	660	607	PPIB	Committed	Mar-21
9	Access Electric Pvt. 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 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 Power Pvt. Limited	Wind	50	50	AEDB	Committed	Jun-21
16	Tenga Generasi 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
Generation Additions in 2021 (MW)			3,933	3,698			
Cumulative Addition uptill 2021 (MW)			5,374	5,119			

ANNEXURE-3

NTDC GENERATION PLAN

BREAKUP OF MEPCO LOSSES (2019-20)

Description	Area	Current Status
Technical Losses	STG	1.5
	Distribution	12.4
Administrative Loss	-	1.3
Total Loss	-	15.2

ANNEXURE-2

TRANSMISSION & DISTRIBUTION LOSSES

Name of Grid Station	Code No.	Serial No:	Make	Date of Commissioning	Voltage Ratio	CAPACITY			MAXIMUM LOAD RECORDED				Load Shedded	Total/ Actual Load	Loading% age
						MVA	LV	H.V	Time	Date	Load	% age.			
132KV Sahiwal New	T-1	1150075	PEL	04.02.2016	132/11	40	2008	175	0:00	20.06.20	1210	60.26	0	1210	60.26
	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
132KV Sahiwal-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
	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
132KV Sheikh Fazal	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
	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 Sahuka	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
132KV Vehari	T-1	HV1150073	PEL	16.01.2016	132/11	40	2008	175	11:00	16.06.20	1185	59.01	0	1185	59.01
	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 Chishtian	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

Name of Grid Station	Code No.	Serial No:	Make	Date of Commissioning	Voltage Ratio	CAPACITY			MAXIMUM LOAD RECORDED				Load Shedded	Total/ Actual Load	Loading% age
						MVA	LV	H.V	Time	Date	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
132KV Kacha Khuh	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
	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-1	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
132KV Kehror Pacca	T-1	11100016	SIEMENS	29.03.2011	132/11	40	2008	175	17:00	27.6.20	1360	67.73	0	1360	67.73
	T-2	10500022	SIEMENS	20.10.2008	132/11	26	1305	114	18:00	23.6.20	930	71.26	0	930	71.26
	T-3	HV1200005	PEL	21.04.2020	132/11	40	2008	175	18:30	27.6.20	940	46.81	0	940	46.81
132KV 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	132/11	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 Ludden	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
132KV Mailsi	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
	T-2	201512451	CHINT China	29.09.2016	132/11	40	2008	175	14:00	18.6.20	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
132KV McLeod Gunj	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
	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
132KV Minchin Abad	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
	T-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
132KV Mianchannu	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
	T-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
132KV Makhdoom Pur Pahoran	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
	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
132KV Noor Pur	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
	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	TRAFOUNION	14.03.2019	132/11	13	653	57	0:00	0	0	0.00	0	0	0.00
132KV Noor Ser	T-1	HV 1090015	PEL	21-12-2016	132/11	26	1305	114	12:00	30.6.20	550	42.15	0	550	42.15
	T-2	1H 9359T1	Meidensha (Japan)	26.10.2015	132/11	13	653	57	12:00	30.6.20	350	53.60	0	350	53.60
132KV Pakpattan	T-1	LPK 11100008	SIEMENS	25.01.2011	132/11	40	2008	175	0:00	19.06.20	1660	82.67	0	1660	82.67
	T-2	1150076	PEL Pakistan	27.01.2016	132/11	40	2008	175	0:00	24.06.20	1600	79.68	0	1600	79.68
	T-3	201512464	CHINT CHINA	01.11.2016	132/11	40	2008	175	0:00	19.06.20	1500	74.70	0	1500	74.70
132KV Qabula	T-1	LPK 10300015	SIEMENS	23.10.2003	132/11	26	1305	114	0:00	17.06.20	700	53.64	0	700	53.64
	T-2	1080019	PEL Pakistan	17.03.2009	132/11	26	1305	114	0:00	14.06.20	680	52.11	0	680	52.11
	T-3	201512473	CHINT CHINA	25.11.2016	132/11	40	2008	175	7:12	23.06.20	1260	62.75	0	1260	62.75
132KV Qadirabad	T-1	1120039	PEL Pakistan	02.11.2012	132/11	26	1305	114	0:00	23.06.20	720	55.17	0	720	55.17
	T-2	141239	ELECTRO PUTERE	20.09.2003	132/11	13	653	57	0:00	23.06.20	570	87.29	0	570	87.29
132KV Sahiwal Old	T-1	8631191	IRAN TRAFO	05.08.2009	132/11	40	2008	175	0:00	16.06.20	1200	59.76	0	1200	59.76
	T-2	10500028	SIEMENS	03.10.2005	132/11	26	1305	113.9	0:00	22.06.20	1040	79.69	0	1040	79.69
	T-3	18343T2	Meiden	04.05.2017	132/11	26	1305	57	0:00	16.06.20	520	39.85	0	520	39.85

Name of Grid Station	Code No.	Serial No:	Make	Date of Commissioning	Voltage Ratio	CAPACITY			MAXIMUM LOAD RECORDED				Load Shedded	Total/ Actual Load	Loading% age
						MVA	LV	H.V	Time	Date	Load	% age.			
132KV Bahawal Nagar-II	T-1	-	RAD Knacar	10.10.2019	132/11	13	653	57	24:00	22.06.20	195	29.86	0	195	29.86
132KV Burewala	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
	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
132KV Burewala Old	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
	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
132KV Chak 211/W.B.	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
	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
132KV Chishtian	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
	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
132 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
132KV Chak 83/12-L	T-1	1140036	PEL Pakistan	30.06.2016	132/11	26	1305	113.7	0:00	16.06.20	760	58.24	0	760	58.24
	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
132KV Chichawatni	T-1	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
	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
132KV Dhahran Wala	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
	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
132KV Dunya Pur	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
	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
132KV Faqirwali	T-1	HV 1150003	PEL	23.01.2017	132/11	26	1305	114	15:00	22.6.20	337	25.82	0	337	25.82
	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
132KV Fort Abbas	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
	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
132KV Garah More	T-1	8230593	IRAN TRANSFO	29.05.2014	132/11	26	1305	114	12:00	29.6.20	900	68.97	0	900	68.97
	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
132KV Haroon Abad	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
	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
132KV Hasil Pur	T-1	138860	ELECTRO PUTERE	10.07.1989	132/66	40	350	175	15.00	24.06.20	110	31.43	0	110	31.43
	T-2	HV 1100025	PEL PAKISTAN	24.08.2010	132/11	26	1305	114	16.00	20.06.20	970	74.33	0	970	74.33
	T-3	HV 1150061	PEL	14.12.2015	132/11	40	2008	175	16.00	23.06.20	1710	85.16	0	1710	85.16
132KV Harappa	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
	T-2	LPK10800019	SIEMENS	25.06.2008	132/11	26	1305	113.7	0:00	22.06.20	915	70.11	0	915	70.11
132KV Head Sidhnai	T-1	8830262	IRAN TRANSFO	16.11.2012	132/11	26	1305	113.7	0:00	20.06.20	880	67.43	0	880	67.43
	T-2	LPK 10500026	SIEMENS	24.01.2017	132/11	26	1305	114	0:00	18.06.20	730	55.94	0	730	55.94
132KV Hoota	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
	T-2	LPK-005816	SIEMENS	26.04.2016	132/11	13	653	57	0:00	20.06.20	520	79.63	0	520	79.63
132KV Jehanian	T-1	830900127	TOSHIBA	28.11.2012	132/11	13	653	57	16:30	29.6.20	460	70.44	0	460	70.44
	T-2	138659	ELECTRO PUTERE	09.07.2000	132/11	26	1305	114	16:00	12.6.20	960	73.56	0	960	73.56
	T-3	HV1150066	PEL	04.01.2016	132/11	40	2008	175	18:00	28.6.20	1580	78.69	0	1580	78.69
132KV Khanewal	T-2	1200002	PEL	09.03.2020	132/11	40	2008	175	0:00	18.06.20	1440	71.71	0	1440	71.71
	T-3	LPK10900033	SIEMENS	27.06.2009	132/11	40	2008	175	0:00	24.06.20	1670	83.17	0	1670	83.17

Name of Grid Station	Code No.	Serial No:	Make	Date of Commissioning	Voltage Ratio	CAPACITY			MAXIMUM LOAD RECORDED				Load Shedded	Total/ Actual Load	Loading% age
						MVA	LV	H.V	Time	Date	Load	% age.			
132KV D.G.Khan-II	T-1	8830263	IranTransfo	08.07.2014	132/11KV	26	1305	114	22:00	26.06.20	926	70.96	0	926	70.96
	T-2	HV-1120044	PEL	22.03.2018	132/11KV	40	2008	175	22:00	22.06.20	1365	67.98	0	1365	67.98
132KV Sakhi Sarwar	T-1	106430	Ganz	25.08.2009	132/11KV	10	502	43.7	22:00	20.06.20	300	59.76	0	300	59.76
	T-2	108274	Siemens	23.04.2017	132/11KV	13	653	56.9	22:00	15.06.20	130	19.91	0	130	19.91
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	19.08
132KV Kot Chutta	T-1	88302	IranTrans:	14.12.2010	132/11KV	26	1305	114	22:00	26.06.20	635	48.66	0	635	48.66
	T-2	HV-260004	PEL	19.09.2007	132/11KV	26	1305	114	22:00	25.06.20	440	33.72	0	560	42.91
	T-3	830900126	Toshiba	29.08.2017	132/11KV	13	653	56.9	22:00	26.06.20	330	50.54	0	330	50.54
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	54.79
132KV Jam Pur	T-1	HV-1090013	PEL	16.06.2009	132/11KV	26	1305	114	13:00	27.06.20	650	49.81	0	650	49.81
	T2	LPK-81700009	Siemens	26.12.2016	132/11KV	26	1305	114	22:00	19.06.20	545	41.76	0	545	41.76
132KV Fazil Pur	T-1	123753	Elta	04.06.2012	132/11KV	13	653	56.85	22:00	26.06.20	250	38.28	0	250	38.28
	T-2	GM95070	Iran Transfo	09.03.2016	132/11KV	26	1305	114	22:00	27.06.20	710	54.41	0	710	54.41
66KV Dajal	T-1	102832	Elprom	27.02.2018	66/11KV	13	653	113.8	22:00	26.06.20	370	56.66	0	370	56.66
	T-2	930384	China	22.07.2014	66/11KV	6.3	316	55.1	22:00	26.06.20	140	44.30	0	140	44.30
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	53.64
132KV Rajan Pur	T-1	HV-1100008	PEL	28.04.2010	132/11KV	26	1305	114	15:00	15.06.20	850	65.13	0	850	65.13
	T-2	HV-1100039	PEL	15.04.2013	132/11KV	26	1305	114	15:00	09.06.20	720	55.17	0	720	55.17
	T-3	139981	E/Putere	24-04-2019	132/11KV	13	653	56.9	22:00	17.06.20	400	61.26	0	400	61.26
132KV Rojhan	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	68.91
132KV S/Lund	T-1	8230592	IranTrans:	06.07.2017	132/11KV	26	1305	114	14:00	09.06.20	780	59.77	0	780	59.77
	T-2	199983	E/Putere	31.08.2012	132/11KV	13	653	56.9	10:00	12.06.20	165	25.27	0	165	25.27
132KV N.A.Wali	T-1	HV-1090008	PEL	27.05.2009	132/11KV	26	1305	114	16:00	17.06.20	730	55.94	0	730	55.94
	T-2	112611	Elprom	17.04.2017	132/11KV	13	653	56.9	14:00	28.06.20	510	78.10	0	510	78.10
132KV S.S.Din	T-1	1150011	PEL	12.09.2017	132/11KV	26	1305	114	21:00	27.06.20	400	30.65	0	400	30.65
	T-2	HV-1150050	PEL	12.09.2017	132/11KV	26	1305	114	21:00	27.06.20	510	39.08	0	510	39.08
132KV Tounsa	T-1	10400031	Siemens	02.08.2012	132/11KV	26	1305	114	15:00	15.06.20	840	64.37	0	840	64.37
	T-2	HV-1110001	PEL	02.03.2017	132/11KV	26	1305	114	15:00	18.06.20	740	56.70	0	560	42.91
	T-3	12019	OTE Itely	19.03.2019	132/11KV	13	653	56.9	22:00	15.06.20	330	50.54	0	330	50.54
132KV Arifwala	T-1	201512462	CHINT CHINA	29.10.2016	132/11	40	2008	175	0:00	10.06.20	1640	81.67	0	1640	81.67
	T-2	LPK 11000004	SIEMENS	17.12.2009	132/11	40	2008	175	0:00	10.06.20	1670	83.17	0	1670	83.17
	T-3	1150062	PEL	26.12.2015	132/11	40	2008	175	0:00	24.06.20	1600	79.68	0	1600	79.68
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	44.44
132KV Bunga Hayat	T-1	1100010	PEL Pakistan	25.05.2010	132/11	26	1305	113.7	0:00	17.06.20	1040	79.69	0	1040	79.69
	T-2	1200006	PEL Pakistan	11.06.2020	132/11	40	2008	175	0:00	22.06.20	1050	52.29	0	1050	52.29
132KV Bahawal Nagar	T-1	HV 1150064	PEL PAKISTAN	29.12.2015	132/11	40	2008	175	14:00	15.06.20	1030	51.29	0	1030	51.29
	T-2	138660	Electroputere Rumania	31.03.2017	132/66	40	350	175	0:00	0	0	0.00	0	0	0.00
	T-3	HV 1120048	PEL PAKISTAN	22.01.2013	132/11	40	2008	175	15:00	17.06.20	1285	63.99	0	1285	63.99
	T-4	T5-33	HEC	26.11.2018	132/11	26	1305	114	14:00	30.6.20	930	71.26	0	930	71.26

Name of Grid Station	Code No.	Serial No:	Make	Date of Commissioning	Voltage Ratio	CAPACITY			MAXIMUM LOAD RECORDED				Load Shedded	Total/ Actual Load	Loading% age
						MVA	LV	H.V	Time	Date	Load	% age.			
J. D. Wali	T-1	1H9575 T-5	Meiden	18-12-87	132/11KV	26	1305	113.7	1430	27.06.20	1110	85.06	0	1110	85.06
	T-2	PELHV1150070	PEL	25.02.16	132/11KV	26	1305	113.7	1630	20.06.20	880	67.43	0	880	67.43
	T-3	179558	Elta	24.07.19	132/11KV	13	653	56.9	1330	22.06.20	480	73.51	0	480	73.51
Khan Bela	T-1	1H9575 T-1	Meiden	22-07-88	132/11KV	26	1305	113.7	2130	23.06.20	1040	79.69	0	1040	79.69
	T-2	T5-48	HEC	28.02.18	132/11KV	26	1305	113.7	2130	29.06.20	890	68.20	0	890	68.20
Khan Pur	T-1	260005	PEL	15-12-07	132/11KV	26	1305	114	2100	24.06.20	940	72.03	0	940	72.03
	T-2	201512448	Chint China	25.01.18	132/11KV	40	2008	175	1500	24.06.20	1591	79.23	0	1591	79.23
	T-3	201512467	Chint China	21-01-17	132/11KV	40	2008	175	1400	24.06.20	1290	64.24	0	1290	64.24
Liaqat Pur	T-1	1100007	PEL	05-05-10	132/11KV	26	1305	114	2100	25.06.20	910	69.73	0	910	69.73
	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.Qureshian	T-1	1H9575 T-6	Meiden	05-03-88	132/11KV	26	1305	113.7	1930	25.06.20	1045	80.08	0	1045	80.08
	T-2	PELHV1080018	PEL	03.03.16	132/11KV	26	1305	113.7	1430	25.06.20	1040	79.69	0	1040	79.69
	T-3	98866	Elprom	19.12.19	132/11KV	13	653	56.9	2030	12.06.20	340	52.07	0	340	52.07
Mubarak Pur	T-1	PELHV1150069	PEL	13.01.17	132/11KV	26	1305	114	1600	14.06.20	590	45.21	0	590	45.21
	T-2	PELHV1150068	PEL	13.01.17	132/11KV	26	1305	114	1100	28.06.20	830	63.60	0	830	63.60
Nawazabad	T-1	8830267	Irantransfo	01.10.12	132/11KV	26	1305	114	1630	24.06.20	697	53.41	0	697	53.41
	T-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-1	PELHV1120051	PEL	22.05.16	132/11KV	40	2008	175	1100	13.06.20	1850	92.13	0	1850	92.13
	T-2	LPK10900011	Siemens	25-02-09	132/11KV	40	2008	175	1500	13.06.20	1810	90.14	0	1810	90.14
	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	-	-	-	-	-	-	-
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
	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	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-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-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-1	102571	Siemens	10.07.06	132/11KV	13	653	57	1400	27.06.20	250	38.28	0	250	38.28
	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
	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
132KV D.G.Khan-I	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

Name of Grid Station	Code No.	Serial No:	Make	Date of Commissioning	Voltage Ratio	CAPACITY			MAXIMUM LOAD RECORDED				Load Shedded	Total/ Actual Load	Loading% age
						MVA	LV	H.V	Time	Date	Load	% age.			
	T-2	201512443	Chint	27.02.2017	132/11KV	40	2008	175	15.00	25.06.20	1230	61.25	0	1230	61.25
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	59.76
	T-2	8830264	Iran Transfo	16.03.2016	132/11KV	26	1305	114	21.00	27.06.20	1020	78.16	0	1020	78.16
132KV Fateh Pur	T-1	10700037	Siemens	07.02.2017	132/11KV	26	1305	114	14.00	15.06.20	940	72.03	0	940	72.03
	T-2	009567	Siemens	13.04.2015	132/11KV	13	653	56.9	15.00	17.06.20	520	79.63	0	520	79.63
	T-3	-	-	24.10.2019	132/11KV	13	653	56.9	-	-	-	-	-	-	-
132KV Gujrat	T-1	HV-260003	PEL	04.09.2007	132/11KV	26	1305	114	21.00	26.06.20	820	62.84	0	820	62.84
	T-2	LPK-10300010	Siemens	08.05.2017	132/11KV	26	1305	114	21.00	27.06.20	1010	77.39	0	1010	77.39
	T-3	178138	Elprom	02.07.2019	132/11KV	13	653	56.9	21.00	26.06.20	300	45.94	0	300	45.94
132KV Jattoi	T-1	14030	Energo	11.05.1970	132/11KV	10	502	43.7	21.00	15.06.20	450	89.64	0	450	89.64
	T-2	198960	ELTA	25.04.2013	132/11KV	26	1305	114	15.00	16.06.20	850	65.13	0	850	65.13
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	60.54
	T-2	HV-1170028	PEL	15.11.2019	132/11KV	26	1305	114	14.00	28.06.20	860	65.90	0	860	65.90
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	81.16
	T-2	-	Siemens	26.03.2013	132/11KV	13	653	56.9	16.00	29.06.20	350	53.60	0	350	53.60
132KV K.P.Sadat	T-1	99B10298	Shenbian	19.05.2014	132/11KV	26	1305	144	14.00	20.06.20	540	41.38	0	540	41.38
	T-2	14027	Energo	09.03.2018	132/11KV	10	502	43.7	13.00	11.06.20	140	27.89	0	140	27.89
132KV Kot Addu	T-1	140636	E/Putere	19.03.1994	132/66KV	40	350	175	15.00	18.06.20	250	71.43	0	250	71.43
	T-3	HV-1120040	PEL	06.12.2012	132/11KV	26	1305	114	15.00	11.06.20	1000	76.63	0	1000	76.63
	T-4	T5-95	HEC	14.04.2015	132/11KV	26	1305	114	13.00	26.06.20	960	73.56	0	960	73.56
	T-5	201708421	Chint	09.08.2018	132/11KV	40	2008	175	22.00	26.06.20	1200	59.76	0	1200	59.76
132KV Layyah	T-1	HV-1120042	PEL	20.12.2012	132/11KV	26	1305	114	15.00	27.06.20	780	59.77	0	780	59.77
	T-2	75-97	HEC	30.01.2008	132/11KV	26	1305	114	14.00	16.06.20	730	55.94	0	730	55.94
	T-3	111999	Elprom	01.02.2018	132/11KV	26	1305	114	22.00	16.06.20	910	69.73	0	910	69.73
	T-4	-	Pauwels	01.02.2018	132/66KV	37.5	328	164	0.00	0	0	0.00	0	0	0.00
132KV M/Garh	T-1	LPK-11100009	Siemens	27.07.2016	132/11KV	40	2008	175	16.30	17.06.20	1570	78.19	0	1570	78.19
	T-2	LPK-11200012	Siemens	18.06.2012	132/11KV	40	2008	175	16.00	18.06.20	1260	62.75	0	1260	62.75
	T-3	HV-1140007	PEL	06.09.2014	132/11KV	40	2008	175	14.00	18.06.20	1020	50.80	0	1020	50.80
132KV M/Khas	T-1	HV-1100023	PEL	28.03.2016	132/11KV	26	1305	114	20.00	27.06.20	980	75.10	0	980	75.10
	T-2	HV-1090016	PEL	16.07.2009	132/11KV	26	1305	114	21.00	27.06.20	940	72.03	0	940	72.03
	T-3	-	BBC	10.10.2019	132/11KV	13	653	56.9	21.00	23.06.20	400	61.26	0	400	61.26
66KV Kot Sultan	T-1	-	Elprom	08.07.2013	66/11KV	13	653	113.8	15.00	20.06.20	470	71.98	0	470	71.98
	T-2	102836	Elprom	29.01.2018	66/11KV	13	653	113.8	14.00	22.06.20	480	73.51	0	480	73.51
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	38.17
66KV 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	65.43
Ahmed Pur East.	T-1	140638	E/Putre	17-11-93	132/66KV	40	349	175	1400	27.06.20	122	34.96	0	122	34.96
	T-2	198956	Elta	17-08-09	132/11KV	26	1305	113.7	1300	15.06.20	810	62.07	0	810	62.07
	T-3	PELHV1150067	PEL	14.02.16	132/11KV	40	2008	175	1600	28.06.20	940	46.81	0	940	46.81
	T-4	138859	E/Putre	16.05.17	132/11KV	26	1305	114	1000	28.06.20	860	65.90	0	860	65.90
Feroza	T-1	LPK108270	Siemens	30-12-02	132/11KV	13	653	56.9	2130	29.06.20	535	81.93	0	535	81.93
	T-2	125573	Elta	15.10.12	132/11KV	13	653	56.9	1530	11.06.20	425	65.08	0	425	65.08

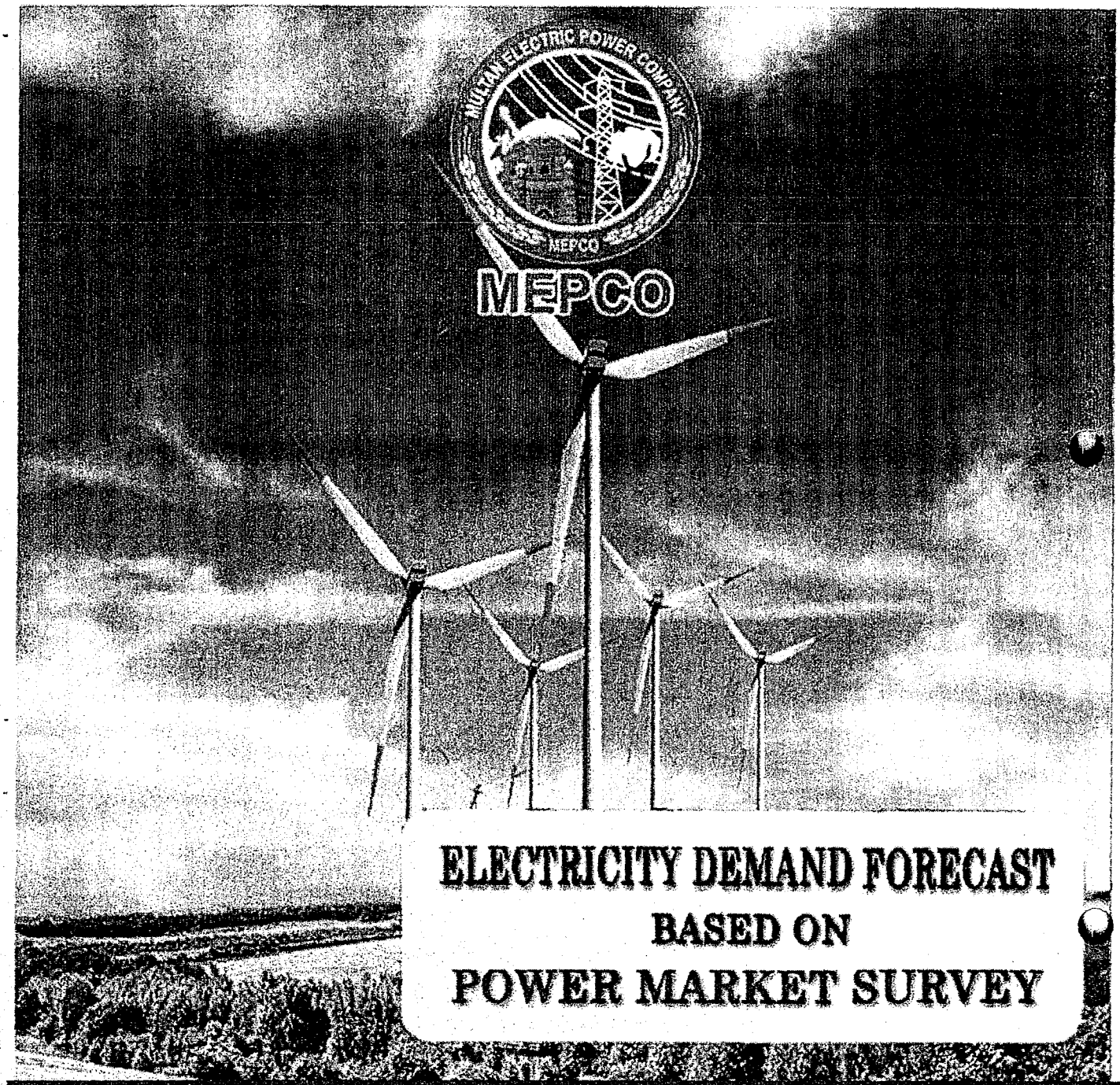
Name of Grid Station	Code No.	Serial No:	Make	Date of Commissioning	Voltage Ratio	CAPACITY			MAXIMUM LOAD RECORDED				Load Shedded	Total/ Actual Load	Loading% age
						MVA	LV	H.V	Time	Date	Load	% age.			
132KV Mesco Multan.	T-1	201512457	Chint China	23.04.17	132/11KV	40	2008	113.7	12:00	27.06.20	1380	68.73	0	1380	68.73
	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
132KV Maan Kot	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
	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
132KV Marrot	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
	T-2	PELHV1170034	PEL	20.06.19	132/11KV	26	1305	114	17:00	18.06.20	740	56.70	0	740	56.70
132KV Miran Pur	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
	T-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
132KV PGHS Multan	T-1	PELHV1160058	PEL	19.07.18	132/11KV	26	1305	114	13:00	19.06.20	409	31.34	0	409	31.34
	T-2	PELHV1170007	PEL	19.07.18	132/11KV	26	1305	114	12:00	16.06.20	391	29.96	0	391	29.96
132KV Qasim Pur Multan	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
	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
132KV Qasim Bagh Multan	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
	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
132KV Samma Satta.	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
	T-2	PELHV1100011	PEL	20-08-11	132/11KV	26	1305	114	18:00	16.06.20	660	50.57	0	660	50.57
132KV Shujabad	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
	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
132KV Vehari Road Multan	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
	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
132KV Wapda Town Multan	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
	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
	T-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
132KV Yazman	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
	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
132KV Ali Pur	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
	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
132KV Choubara	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
	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
132KV C/Munda	T-1	10200007	Siemens	02.06.2002	132/11KV	26	1305	114	18.00	24.06.20	900	68.97	0	900	68.97
	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 C/Azam	T-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

MONTHLY STATEMENT SHOWING MAXIMUM LOAD OF POWER TRANSFORMERS FOR 06/20

Name of Grid Station	Code No.	Serial No:	Make	Date of Commissioning	Voltage Ratio	CAPACITY			MAXIMUM LOAD RECORDED				Load Shedded	Total/ Actual Load	Loading% age
						MVA	LV	H.V	Time	Date	Load	% age.			
132KV Bahawal Pur	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
	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 Cantt	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
132KV Baghdad-ul-Jadid	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
	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
132KV Bosan Road Multan	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
	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
	T-3	LPK10800036	Siemens	05.08.08	132/11KV	40	2008	175	15:00	23.06.20	1580	78.69	0	1580	78.69
132KV Basti Malook	T-1	PELHV1120036	PEL	27.11.12	132/11KV	40	2008	175	18:00	16.06.20	1090	54.28	0	1090	54.28
	T-2	8230585	Irantransfo	12-06-06	132/11KV	26	1305	114	15:00	23.06.20	780	59.77	0	780	59.77
	T-3	8830260	Irantransfo	07.04.16	132/11KV	26	1305	114	18:00	23.06.20	780	59.77	0	780	59.77
132KV Industrial Estate Multan	T-1	PELHV1120037	PEL	12.09.18	132/11KV	40	2008	175	16:00	22.06.20	1350	67.23	0	1350	67.23
	T-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
132KV Jail Road Multan	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
	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
132KV Jalal Pur Pir Wala	T-1	PELHV1200010	PEL	17.06.20	132/11KV	40	2008	175	14:00	27.06.20	1080	53.78	0	1080	53.78
	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
132KV Khanewal Road Multan	T-1	PELHV1130028	PEL	29.01.20	132/11KV	40	2008	175	13:00	01.06.20	925	46.07	0	925	46.07
	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
132KV Kabir Wala	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
	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
132KV Lar	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
	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
132KV Lodhran	T-1	LPK11200011	Siemens	19-07-12	132/11KV	40	2008	175	16:00	27.06.20	1570	78.19	0	1570	78.19
	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
132KV Makhdum Rashid	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	13:00	28.06.20	950	72.80	0	950	72.80

ANNEXURE-1

LOADING POSITION OF GRID STATIONS



MEPCO

ELECTRICITY DEMAND FORECAST
BASED ON
POWER MARKET SURVEY

PERIOD 2019 TO 2028

PREPARED BY MEPCO
WITH FACILITATION FROM

NTDC & CPPA

August 2019

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

On the eve of publishing of this report we would like to express our sincere gratitude to CPPA-G Load Forecast Consultants, Engr. Bilal Ahmed and Engr. Farhan Hussan Javed, and NTDC Load Forecast Team comprising Engr. Tauseef ur Rehman Khan – Deputy Manager Load Forecast and Mr. Shahid Abbas – Staff Economist. Their contribution and expertise have been very instrumental and invaluable for the quality of this report. Their devotion and dedication to keep the forecast methodology at par with the best international industrial practices is highly commendable. We highly appreciate the efforts of Power System Planning, NTDC for initiating the forecast process every year and facilitating all DSICOs to ensure the timely completion of the report.

PMS Team
MEPCO

Executive Summary

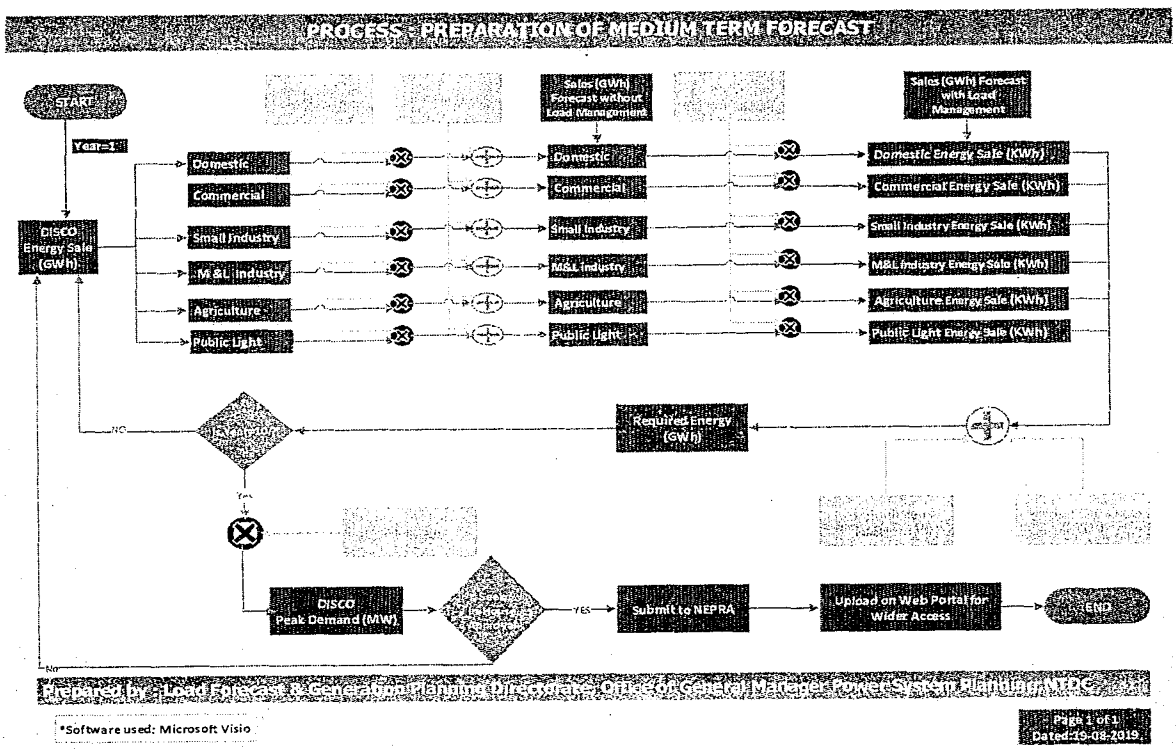
Multan Electric Power Company (MEPCO) is currently supplying electricityto civil divisions of Bahawalpur, DG Khan, Multan, Sahiwal and their respective districts.Earlier it was known as Multan Area Electricity Board (AEB) and its distribution network in the year 2001 comprised of seventy-one 132 kV and 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 andenergy 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.

Process Map


PROCESS - PREPARATION OF MEDIUM TERM FORECAST
START
Year=1
DISCO Energy Sale (GWh)
Domestic
Commercial
Small Industry
M&L Industry
Agriculture
Public Light
Sales (GWh) Forecast without Load Management
Domestic
Commercial
Small Industry
M&L Industry
Agriculture
Public Light
Sales (GWh) Forecast with Load Management
Domestic Energy Sale (KWh)
Commercial Energy Sale (KWh)
Small Industry Energy Sale (KWh)
M&L Industry Energy Sale (KWh)
Agriculture Energy Sale (KWh)
Public Light Energy Sale (KWh)
Required Energy (GWh)
NO
YES
DISCO Peak Demand (MW)
YES
Submit to NEPRA
Upload on Web Portal for Wider Access
END
No
Prepared by - Load Forecast & Generation Planning Directorate, Office of General Manager Power System Planning NTDC
*Software used: Microsoft Visio
Page 1 of 1
Dated:19-08-2019

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Introduction

This report is the 27th 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

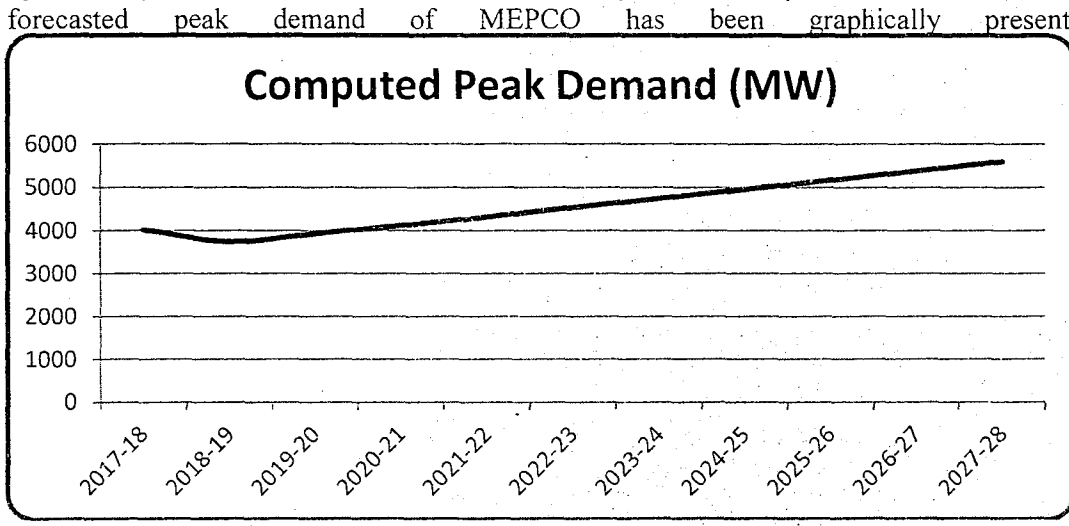


Figure 1-1.

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(

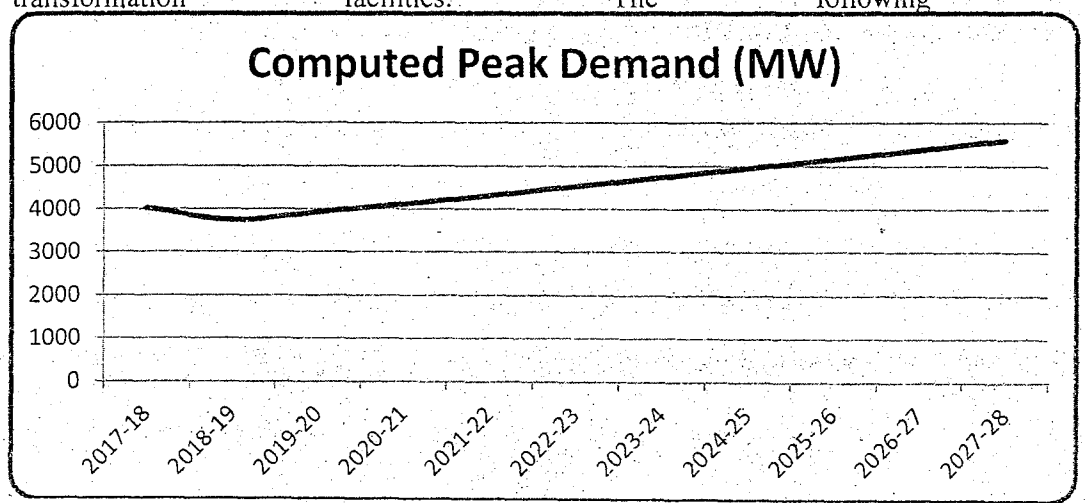


Figure 1-1) shows the computed peak demand of MEPCO for the current forecast period.

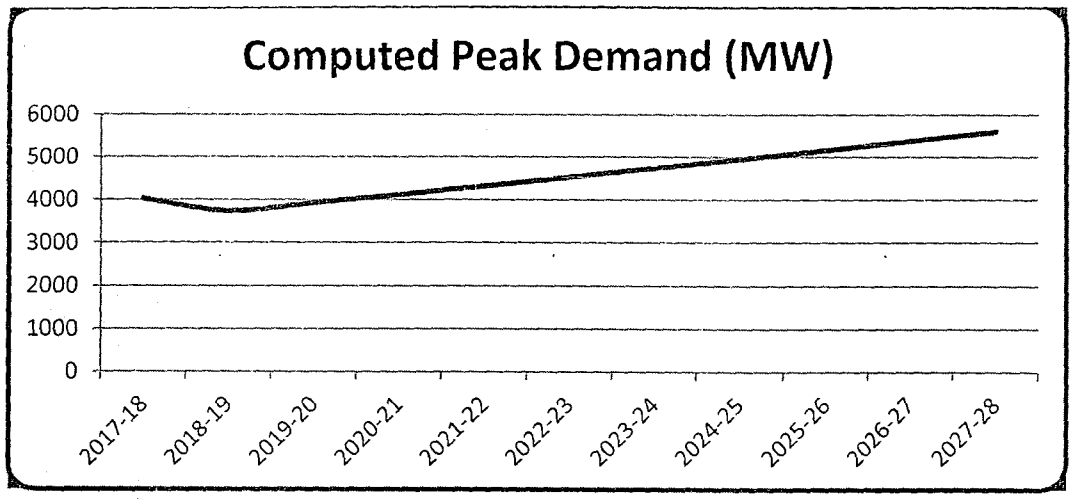


Figure 1-1: **Computed Peak Demand Forecast**

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.

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

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 2017-18are given in **Figure 1-2**.

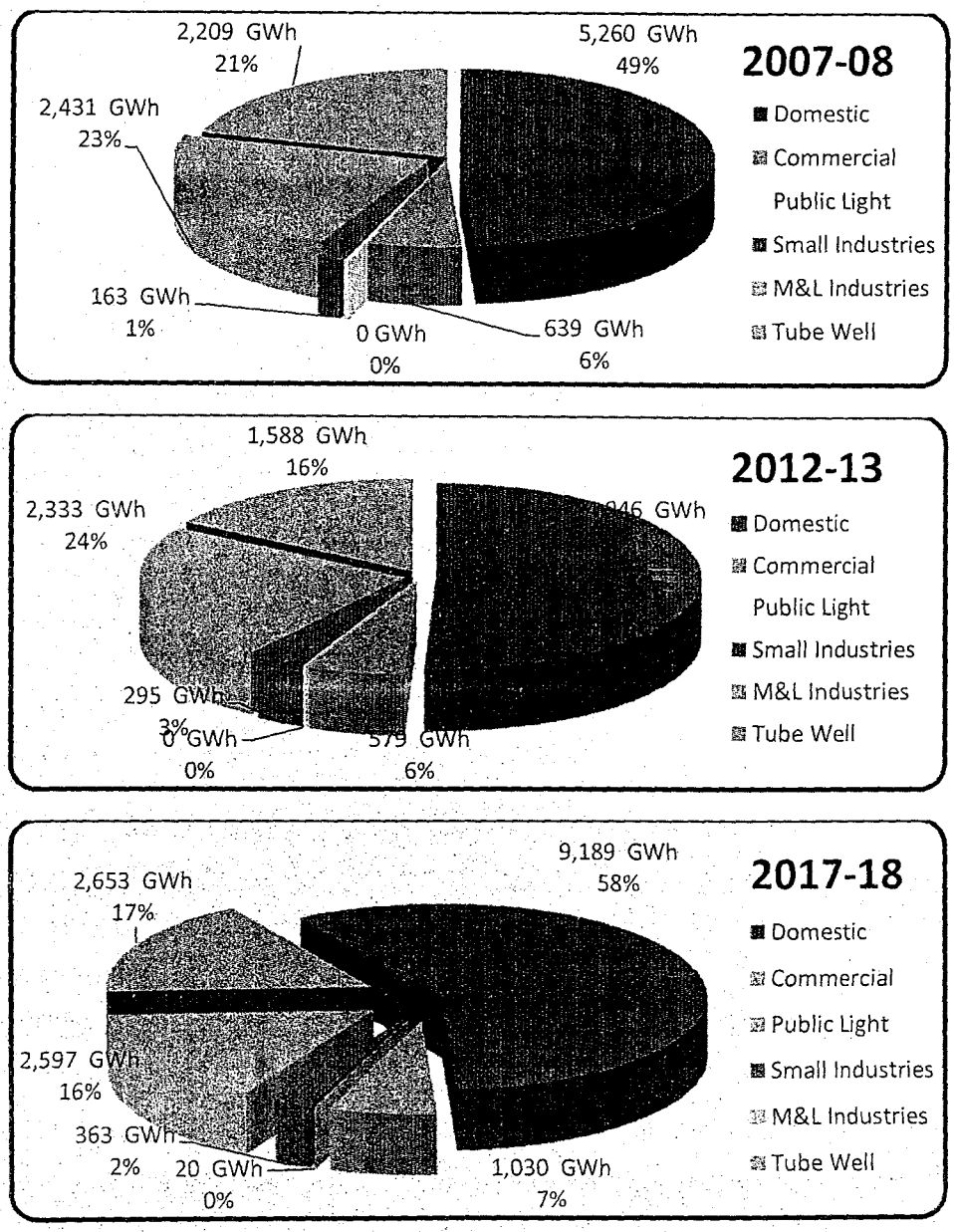


Figure 1-2: Historical Category-wise Sale

Figures of category-wise sale for the last five years i.e. 2013-14 to 2017-18 are given in the table below.

Table 2.1-1: Historical Sale of MEPCO

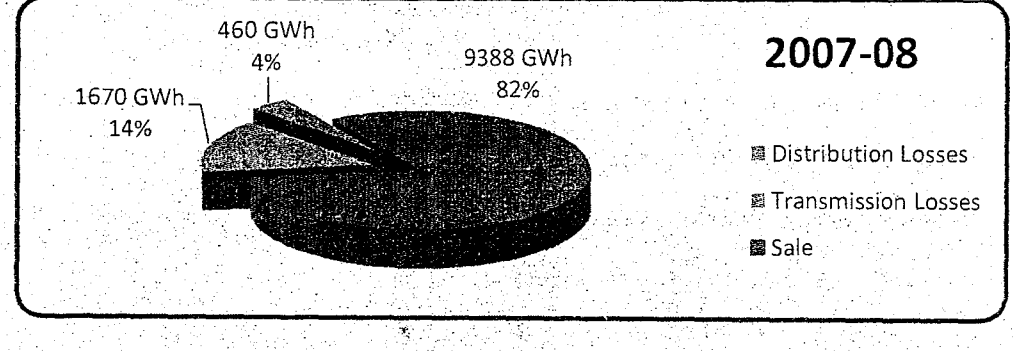
Financial Year	Domestic (GWh)	Commercial (GWh)	Public Light (GWh)	Small Industries (GWh)	M&L Industries (GWh)	Tube Well (GWh)	Bulk (GWh)	Total (GWh)
2014	5527	640	17	305	2685	2090	173	11437
2015	6022	657	16	310	2761	1745	200	11711
2016	6635	730	16	323	2532	1880	224	12341
2017	7574	846	20	333	1956	2271	252	13252
2018	8896	967	20	364	2597	2653	293	15853
Ave. Growth (2013-2017)	12.6%	10.9%	4.2%	4.5%	-0.8%	6.1%	14.2%	8.5%

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.



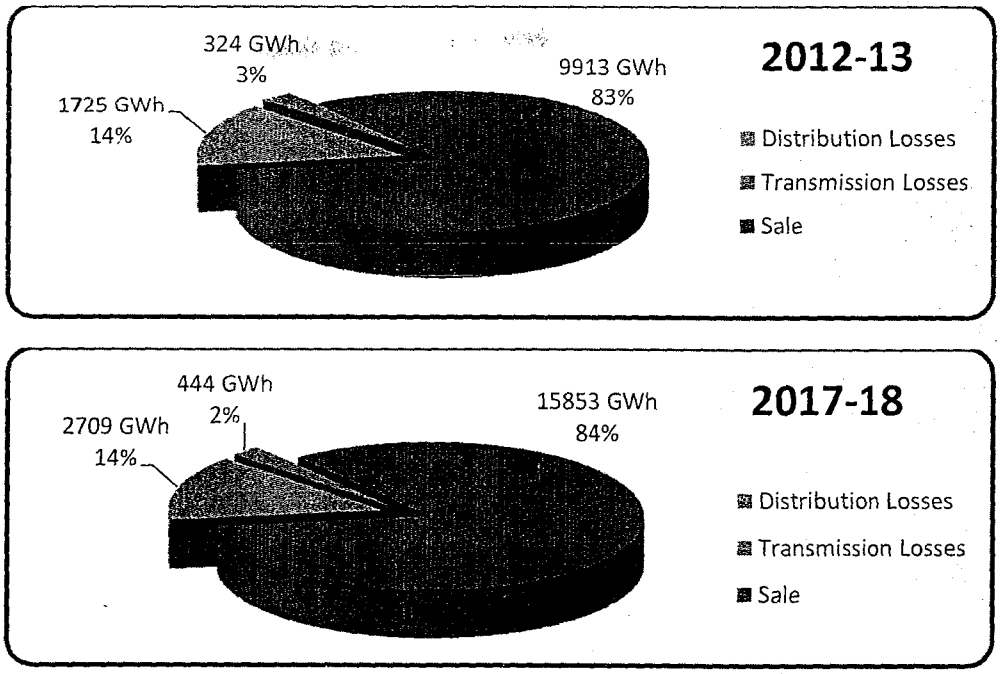


Figure 1-3: Historical Energy Sale and Losses (Transmission and Distribution)with their percentages

2.3 Recorded and Computed Peak Demand

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.

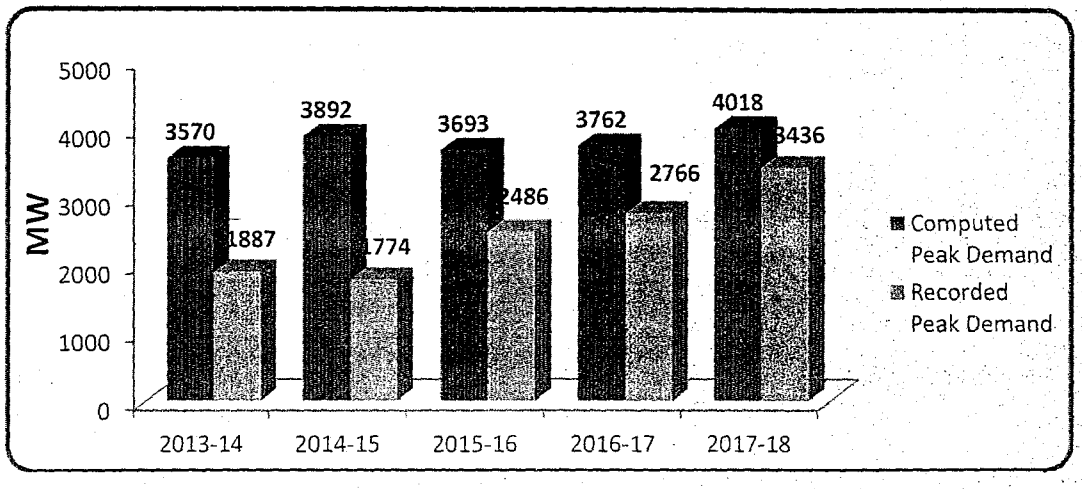


Figure 1-4: Historical Recorded and Computed Peak Demands

Historical figures of recorded and computed peak, energy sale and purchase, losses and load factors for MEPCO are given in the following table.

Table 2.3-1: Historical Peak Demand, Energy Sale & Purchase, Losses and Load Factor

Year	Energy Sale	Energy Purchase	Losses		Computed Energy Purchased	Recorded Peak	Computed Peak	Load Factor[2]	Comp. Load Factor
			11 KV	132 KV					
	GWh	GWh	GWh	GWh	GWh	MW	MW	%	%
2014	11437	13375	1939	484	19741.8	1887	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. Growth Rate (2014-18)	8.51%	8.54%				16.16%	3.00%		

2.4 Number of Consumers

Historical figuresof number of consumers within MEPCO's jurisdiction for the last five yearsaregiven 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.

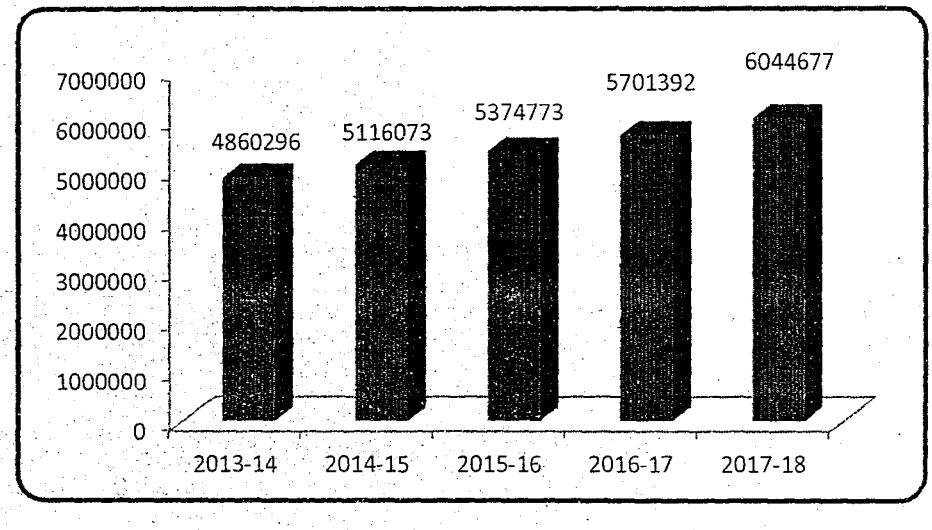


Figure 1-5: Number of Consumers

Category-wise number of consumers for the last five years i.e. 2013-14 to 2017-18is shown in the following table.

Table 2.4-1: Historical Number of Consumers in MEPCO

Year	Domestic	Commercial	Public Light	Small Industries	M&L 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 (2014-2018)	5.9%	4.2%	2.3%	2.2%	3.9%	1.5%	2.2%	5.6%

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 eachconsumer 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.

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.

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

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 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.

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 evening, the coincidence factor between these two 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.

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.

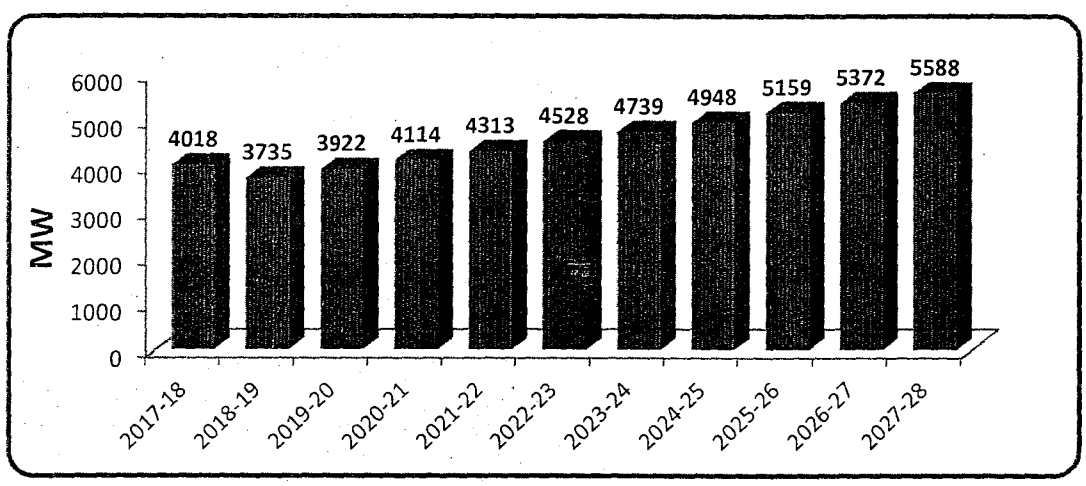


Figure 1-6: Computed Peak Demand

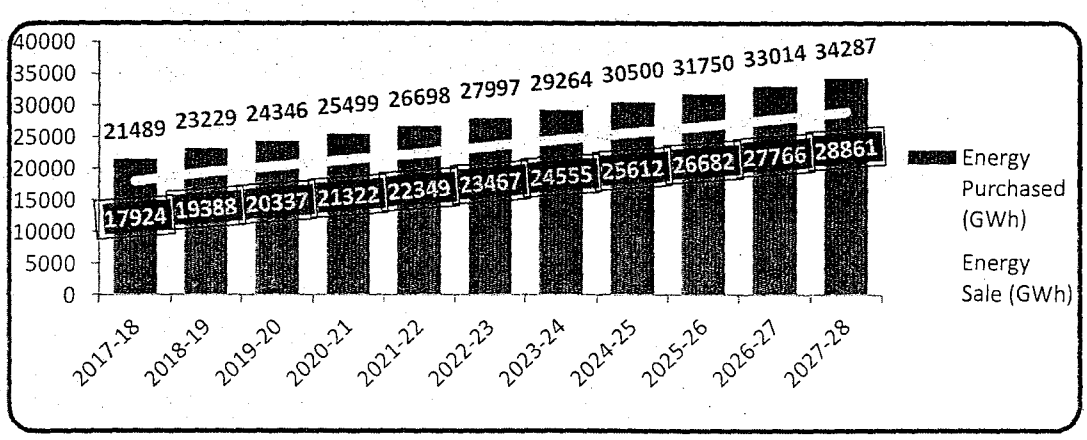


Figure 1-7: Energy Purchased Vs Energy Sale

4.2 Category-wise Forecasted Energy Sale (GWh)

Amount and percentage share of each consumer category in the total consumption for the year 2022-23and year 2027-28have been depicted in **Figure 1-8**. If we criticallyanalyze**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.

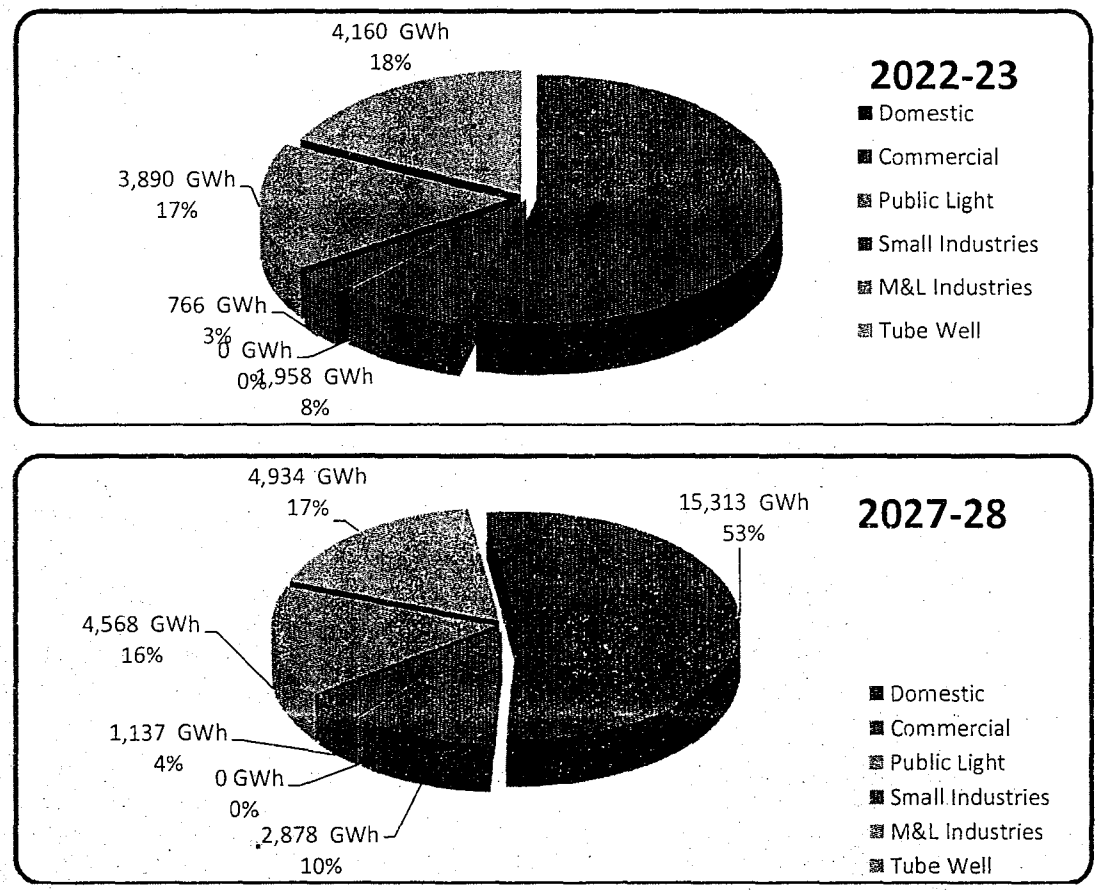


Figure 1-8: Forecasted Category Wise Sale

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 factorfor 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 providesthe basisfortransmission 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.

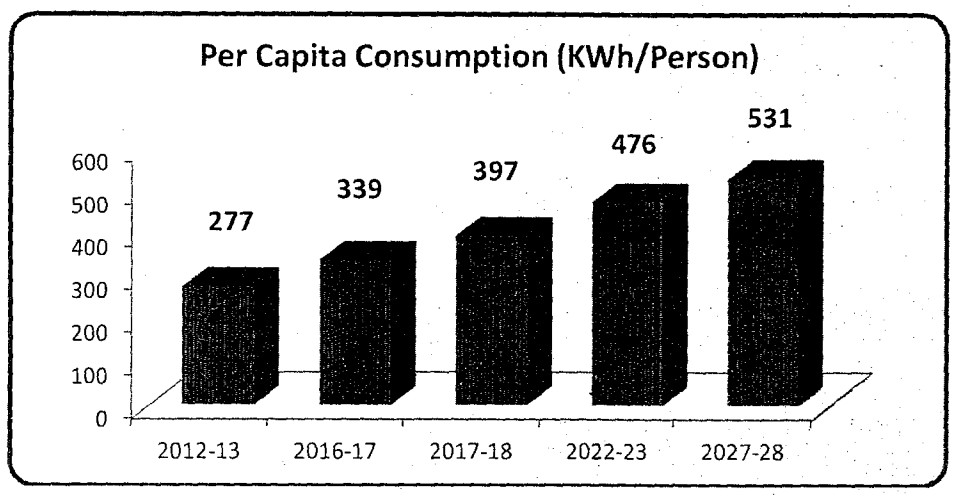


Figure 1-9: Per Capita Consumption

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. 2026-27have been presented in the table.

Table 1-1: Forecast without incorporatingLoad Sheddingeffect (Low Forecast)

Year	Energy Sale		Distribution Losses		Energy Received at 11 kV	Peak Demand at 11 kV	Transmission Losses		Energy Sent out at 132 kV	Load Factor	Peak Demand at 132 kV
	(GWh)	G.R	(GWh)	(%)	GWh	MW	(GWh)	(%)	(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
2021-22	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 (2018-2028)	5.28%				5.19%	5.32%			5.18%		5.31%

Table 1-2: Computed Forecast(Base Forecast)

Year	Computed Sale	G.R	Distribution Losses		Energy Received at 11 kV	Peak Demand at 11 kV	Transmission Losses		Energy Sent out at 132 kV	Load Factor	Computed Peak Demand at 132 kV	G.P
		(%)	(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	
2027-28	28861	3.9	4659	13.90	33520	5588	767.6	2.24	34287	68.5	5716	4.0
Ave. Growth (2018-2028)	4.88%				4.79%	3.35%			4.78%		3.34%	

Table 1-3: Consumer Category Wise Sale – GWh without incorporating Load Shedding effect (Low Forecast)

Year	Domestic		Commercial		Public Light		Small Industries		M&L Industries		Tube Well		Total	
	Energy	G.R	Energy	G.R	Energy	G.R	Energy	G.R	Energy	G.R	Energy	G.R	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 (2018-2028)	4.3%		10.1%		2.9%		11.6%		4.9%		5.5%		5.3%	

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Table 1-4: Consumer Category Wise Sale – GWh (Base Forecast)

Year	Domestic		Commercial		Public Light		Small Industries		M&L Industries		Tube Well		Total	
	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	
2027-28	15313	3.6	2878	7.3	31	2.9	1137	7.1	4568	2.9	4934	3.2	28861	3.9
Ave Growth (2018-2028)	4.0%		9.5%		2.9%		10.7%		4.5%		5.1%		4.9%	

Table 1-5: Consumer Category Wise Demand – MW without incorporating Load Shedding effect (Low Forecast)

Year	Domestic		Commercial		Public Light		Small Industries		M&L Industries		Tube Well		Total	
	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 (2018-2028)	4.4%		10.8%		2.9%		11.6%		4.8%		5.4%		5.4%	

Table 1-6: Consumer Category Wise Demand – MW (Base Forecast)

Year	Domestic		Commercial		Public Light		Small Industries		M&L Industries		Tube Well		Total	
	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	4.2
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 (2018-2028)	2.5%		8.5%		1.4%		9.1%		2.9%		3.5%		3.4%	

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Table 1-7: Division-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (Division: Bahawal Pur)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak Demand
	(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 (2018-2028)	5.61 %						5.47 %		5.46 %

Table 1-8: Division-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (Division: D.G.Khan)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak Demand
	(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 %

Table 1-9: Division-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (Division: Multan)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak Demand
	(GWh)	G.R.(%)	(GWh)	%	(GWh)	%	(GWh)	%	(MW)
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 (2018-2028)	4.26 %						4.17 %		4.28 %

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Table 1-10: Division-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (Division: Sahiwal)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak Demand
	(GWh)	G.R.(%)	(GWh)	%	(GWh)	%	(GWh)	%	(MW)
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 (2018-2028)	3.49 %						3.39 %		3.53 %

Table 1-11: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District:Bahawal Nagar)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak Demand
	(GWh)	G.R.(%)	(GWh)	%	(GWh)	%	(GWh)	%	(MW)
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 (2018-2028)	7.24%						7.14%		7.10%

Table 1-12: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District:Bahawal Pur)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak 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 (2018-2028)	3.71%						3.61%		3.67%

Table 1-13: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District:Rahim Yar Khan)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak Demand
	(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 (2018-2028)	6.51%						6.31%		6.34%

Table 1-14: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District:Lodhran)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak 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 (2018-2028)	4.10%						4.00%		4.08%

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Table 1-15: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District:D.G. Khan)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak 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 (2018-2028)	2.78%						2.72%		2.81%

Table 1-16: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Layyah)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak Demand
	(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 (2018-2028)	4.19%						4.11%		4.39%

Table 1-17: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Muzaffar Garh)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak Demand
	(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
2027-28	3018	6.49	460	13.23	80	2.24	3559	50.4	806
Ave. Growth (2018-2028)	8.91%						8.98%		9.55%

Table 1-18: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Rajan Pur)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak 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 (2018-2028)	2.66%						2.58%		2.68%

Table 1-19: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Khane Wal)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak Demand
	(GWh)	G.R.(%)	(GWh)	%	(GWh)	%	(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 (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 Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak 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 (2018-2028)	4.10%						4.02%		4.20%

Table 1-21: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Vehari)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak Demand
	(GWh)	G.R.(%)	(GWh)	%	(GWh)	%	(GWh)	%	(MW)
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 (2018-2028)	5.08%						4.98%		4.90%

Table 1-22: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Sahiwal)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak 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
Ave. Growth (2018-2028)	3.28%						3.18%		3.19%

Table 1-23: District-wise Sale (GWh), Generation (GWh) and Demand (MW) Forecast (District: Pak Pattan)

Year	Energy Sale		Distribution Losses		Transmission Losses		Generation	Load Factor	Peak Demand
	(GWh)	G.R.(%)	(GWh)	%	(GWh)	%	(GWh)	%	(MW)
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%

Table 1-24: Monthly Peak Demand Forecast (Base Forecast)

Year	July	August	September	October	November	December	January	February	March	April	May	June
	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(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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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

Table 1-26: List of Overloaded Substations during Period 2017-18 to 2027-28Overloading Criterion= 85%

S.No.	Name	Rating	Grid #	Total Capacity	Total Capacity	Overloading Criterion	Overloading Criterion	Year of Overloading	Overloading Status	Power Factor
		KV		(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 KV	Grid #	Total Capacity (MVA)	Total Capacity (MW)	Overloading Criterion (MW)	Overloading Criterion (%)	Year of Overloading	Overloading Status (MW)	Power 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	77.28	65.69	85.00	2024-25	64.90	0.84
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	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

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S.No.	Name	Rating KV	Grid #	Total Capacity (MVA)	Total Capacity (MW)	Overloading Criterion (MW)	Overloading Criterion (%)	Year of Overloading	Overloading Status (MW)	Power Factor
47	Maroot	66	606	39.5	32.39	27.53	85.00	2018-19	24.10	0.82
48	Fateh Pur	132	642	39	34.71	29.50	85.00	2023-24	28.50	0.89
49	Karam Pur	132	685	52	42.64	36.24	85.00	2021-22	35.40	0.82
50	Chishtian New	132	728	78	65.52	55.69	85.00	2020-21	55.40	0.84
51	Makhdom Rashid	132	766	39	32.76	27.85	85.00	2017-18	29.90	0.84
52	R Y.Khan-II	132	767	92	82.80	70.38	85.00	2022-23	66.50	0.90
53	Khan Garh	132	769	26	23.14	19.67	85.00	2021-22	19.00	0.89
54	Chunawala	132	773	0	0.00	0.00	85.00	2017-18	3.60	0.90
55	Lar	132	780	52	44.20	37.57	85.00	2019-20	35.00	0.85
56	Vehari	220	806	39	32.76	27.85	85.00	2022-23	27.70	0.84
57	Nau Abad	220	815	26	21.84	18.56	85.00	2017-18	18.90	0.84
58	Haroonabad	132	924	92	82.80	70.38	85.00	2024-25	69.70	0.90
59	KarrorPakka	132	927	92	76.36	64.91	85.00	2017-18	65.50	0.83
60	Uch Sharif	132	932	52	43.68	37.13	85.00	2025-26	35.70	0.84
61	Dunya Pur	132	982	52	43.68	37.13	85.00	2021-22	36.50	0.84
62	Burewala Old	132	989	66	55.44	47.12	85.00	2017-18	65.70	0.84
63	Nawaz Abad	132	1058	52	42.64	36.24	85.00	2024-25	35.60	0.82
64	Makhdum Pur	132	1059	39	32.76	27.85	85.00	2022-23	26.80	0.84
65	Jail Roa	132	1072	52	44.72	38.01	85.00	2021-22	36.60	0.86
66	Sahiwal-III	132	1089	52	44.20	37.57	85.00	2017-18	47.60	0.9
67	Man Kot	132	1115	26	21.58	18.34	85.00	2017-18	18.50	0.83
68	Hota	132	1123	39	31.59	26.85	85.00	2017-18	25.70	0.81

Table 1-27: List of Overloaded Substations during Period 2017-18 to 2027-28 Overloading Criterion= 100%

S.No.	Name	Rating KV	Grid #	Total Capacity (MVA)	Total Capacity (MW)	Overloading Criterion (MW)	Overloading Criterion (%)	Year of Overloading	Overloading Status (MW)	Power Factor
1	Bonga Hayat	132	17	52	42.64	42.64	100.00	2019-20	39.60	0.82
2	Bosan Road	132	18	120	108.00	108.00	100.00	2019-20	104.00	0.90
3	Burewala	132	20	106	90.10	90.10	100.00	2017-18	96.60	0.85
4	Damar Wala	132	36	52	46.28	46.28	100.00	2023-24	43.20	0.89
5	Garah More	132	42	52	43.68	43.68	100.00	2023-24	42.30	0.84
6	Harappa	132	58	66	56.76	56.76	100.00	2026-27	55.80	0.86
7	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	46.28	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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S.No.	Name	Rating KV	Grid #	Total Capacity (MVA)	Total Capacity (MW)	Overloading Criterion (MW)	Overloading Criterion (%)	Year of Overloading	Overloading Status (MW)	Power 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	0.84
47	Jail Roa	132	1072	52	44.72	44.72	100.00	2025-26	43.40	0
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

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Table 1-28: List of Grids with their Codes and MVA Capacities

Sr. No.	Grid No.	KV	Grid Name	Transformer (MVA)				Total (MVA)		Sr. No.	Grid No.	KV	Grid Name	Transformer (MVA)				Total (MVA)
				T1	T2	T3	T4							T1	T2	T3	T4	
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		4	9	132	Bahawal Nagar	40	0	40	0	80
5	12	132	Basti Malook	40	26	26	0	92		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	0	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		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
23	102	132	Khanpur	26	40	40	0	106		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		28	122	132	Liaquatpur	26	26	0	0	52
29	123	132	Lodhran	40	40	40	0	120		30	131	132	Mehra Khas	26	26	0	0	52

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Sr. No.	Grid No.	KV	Grid Name	Transformer (MVA)				Total (MVA)		Sr. No.	Grid No.	KV	Grid Name	Transformer (MVA)				Total (MVA)
				T1	T2	T3	T4							T1	T2	T3	T4	
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		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		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	Jalalpur 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	115
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		60	374	132	Shuja Abad	40	26	26	0	92
61	376	132	Head Sidnai	26	26	0	0	52		62	397	66	Uch Sharif	13	13	0	0	26

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Sr. No.	Grid No.	KV	Grid Name	Transformer (MVA)				Total (MVA)		Sr. No.	Grid No.	KV	Grid Name	Transformer (MVA)				Total (MVA)
				T1	T2	T3	T4							T1	T2	T3	T4	
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
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
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
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	26
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	0	0	52

Table 1-29: Maximum Demand (MW) of Substations (Base Forecast)

Sr. No	Grid No	Name of Grid Station	KV	Year										
				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	37.6	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	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
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	87.4
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

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Sr. No	Grid No	Name of Grid Station	KV	Year										
				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	23.5	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	17.3	19.2	21.1	23.1	25	27	29

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Sr. No	Grid No	Name of Grid Station	KV	Year										
				2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
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	51.8
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

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Sr. No.	Grid No.	KV	Grid Name	Transformer (MVA)				Total (MVA)		Sr. No.	Grid No.	KV	Grid Name	Transformer (MVA)				Total (MVA)
				T1	T2	T3	T4							T1	T2	T3	T4	
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
77	543	66	Kot Sultan	13	13	0	0	26		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
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		94	705	132	Fort Manro	7.5	0	0	0	7.5

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Sr. No	Grid No	Name of Grid Station	KV	Year										
				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
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. No	Grid No	Name of Grid Station	KV	Year										
				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
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	8.6	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	16.3	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	10.8	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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Sr. No	Grid No	Name of Grid Station	KV	Year										
				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	0	17	17.7	18.4	19.1	19.9	20.6	21.4	22.2	22.9
123	1216	D.G Khan-III	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	17.8	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	8.6
137	1219	Makhdoom Jahani	132	0	0	0	0	24.3	25.7	27.2	28.6	30.1	31.6	33.2

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Sr. No	Grid No	Name of Grid Station	KV	Year										
				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
139	1237	NawanKot	132	0	0	0	0	0	36.6	39.7	42.8	45.9	49.2	52.5
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	Rahim 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	6.1	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
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

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Sr. No	Grid No	Name of Grid Station	KV	Year										
				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

Table 1-30: Family of Grids (Existing, Proposed & Transit Grid)

Sr No.	Group No	Grid No	Name of Grid Station	KV	Year										
					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	26.7	27.5	28.4
11	9	1226	Bahawal Nagar-I	132	0	0	0	0	0	0	0	0	0	0	0
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	66.9
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	13.2	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	67.2	68.9

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Sr No.	Group No	Grid No	Name of Grid Station	KV	Year										
					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 Miani	132	0	0	0	0	0	0	0	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	66.5
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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Sr No.	Group No	Grid No	Name of Grid Station	KV	Year										
					2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
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
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	0	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	0	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	43 3
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
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	0	0	0	0	0	0	0	0
55	112	1215	Sanawan	132	0	0	0	0	0	0	0	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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Sr No.	Group No	Grid No	Name of Grid Station	KV	Year										
					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-III	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-II	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	0	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	0	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

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Sr No.	Group No	Grid No	Name of Grid Station	KV	Year										
					2017-18	2018-19	2019-20	2020-21	2021-22	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	7.6	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	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

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Sr No.	Group No	Grid No	Name of Grid Station	KV	Year										
					2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
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	8.7	8.9
96	274	274	132 KV Fazal Pu	132	6.7	7	7.2	7.3	7.5	7.6	7.8	8	8.2	8.4	8.5
97	274	1239	Muhammad Pur De	132	0	0	0	0	0	0	0	0	0	0	0
98	276	276	132 KV Fortabba	132	10.1	11.9	13.7	15.5	17.3	19.2	21.1	23.1	25	27	29
99	276	1345	Khichi Wala	132	8.7	10.6	12.4	14.2	16.1	18	19.9	21.8	23.8	25.8	27.8
100	276	1225	Khichi Wala	132	0	0	0	0	0	0	0	0	0	0	0
101	285	285	132 KV Jalal Pu	132	36.4	40.3	42.9	45.4	48.1	50.8	53.5	56.3	59.1	61.9	64.8
102	285	1330	Makhdoom Jahani	132	7.3	8.2	8.7	9.2	9.7	10.3	10.9	11.4	12	12.5	13.1
103	285	1331	Lodhran-II	132	4.9	5.5	5.8	6.2	6.6	7	7.4	7.8	8.2	8.6	9.1
104	285	1219	Makhdoom Jahani	132	0	0	0	0	0	0	0	0	0	0	0
105	293	293	132 KV Jam Pur	66	11.1	11.8	12.4	13.1	13.7	14.5	15.2	15.9	16.7	17.4	18.2
106	293	1314	Maggi More	132	1.9	2	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.4
107	293	1212	Maggi More	132	0	0	0	0	0	0	0	0	0	0	0
108	297	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
109	313	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
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	21.9
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	22.4

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Sr. No.	Group No	Grid No	Name of Grid Station	KV	Year										
					2017-18	2018-19	2019-20	2020-21	-2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
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	74.1
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	17.3
117	376	376	132 KV Sidhna	132	30.6	32.1	33.4	34.7	36.1	37.6	39	40.5	42	43.6	45.1
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	28.9
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	60.7
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	43.2
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	13.6
124	530	1237	NawanKot	132	0	0	0	0	0	0	0	0	0	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	51.8
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	56.2
127	533	1365	NawanKot	132	7.6	8.7	9.7	10.7	11.7	12.8	13.9	15	16.1	17.3	18.5
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	55.1
129	534	1334	KotSamaba	132	7	7.8	8.3	8.8	9.4	9.9	10.5	11.1	11.7	12.3	12.9
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	13.4
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	38.9
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	18.9

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Sr. No.	Group No	Grid No	Name of Grid Station	KV	Year										
					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-II	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 No.	Group No.	Grid No	Name of Grid Station	KV	Year										
					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	16.7	17.2	17.6	18.1	18.7	19.2	19.7	20.2	20.8
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 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
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	66	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	0	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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Sr No.	Group No	Grid No	Name of Grid Station	KV	Year										
					2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
171	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	9.5	9.5
172	730	730	132 KV Chowk Az	132	16.1	17	17.9	18.8	19.8	20.8	21.8	22.8	23.8	24.9	25.9
173	730	1367	PirJaggi	132	9	9.5	10.1	10.7	11.3	11.9	12.6	13.2	13.9	14.5	15.2
174	743	743	132 KV Jam Pur	132	12.6	13.2	13.8	14.4	15.1	15.8	16.6	17.3	18	18.8	19.5
175	743	1369	Muhammad Pur De	132	3.4	3.6	3.8	4	4.2	4.4	4.7	4.9	5.1	5.3	5.6
176	763	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
177	766	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
178	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	89.7	95.7
179	767	1335	KotSamaba	132	8.9	10.5	12	13.5	15.1	16.7	18.4	20	21.7	23.3	25
180	769	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
181	773	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
182	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	2.5	2.5
183	780	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
184	806	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
185	815	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
186	818	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
187	852	852	66 KV Head Rajk	66	6	6.4	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.8	9.1
188	852	1359	Derawar More	132	4	4.2	4.4	4.7	4.9	5.2	5.4	5.7	5.9	6.2	6.5
189	852	1235	Derawar More	132	0	0	0	0	0	0	0	0	0	0	0

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Sr No.	Group No	Grid No	Name of Grid Station	KV	Year										
					2017-18	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	20.6	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	16.3	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	16.6
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

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Sr No.	Group No	Grid No	Name of Grid Station	KV	Year										
					2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
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	33.7
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	31.3
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	46.9
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	60.3
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	50.2
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	15.7
216	1113	1363	Pak Pattan-II	132	5.1	5.3	5.6	5.8	6	6.2	6.5	6.7	7	7.2	7.5
217	1113	1236	Pak Pattan-II	132	0	0	0	0	0	0	0	0	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	24.1
219	1115	1318	Qadirpur Rawan	132	2.6	2.8	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	28.9
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	2.8
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	32.9
223	1148	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
224	1241	1241	Rahim Yar Khan	132	0	0	1.6	8	16	32	40	40	40	40	40

Table 1-31: Category-wise Energy (kWh)and Maximum Demand (kW)of Substations for Year 2022-2 (Base Forecast)

Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&I Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
1	376	132 KV Sidhnai	132	kWh	121789	10837	32	3536	5342	16660	0	0	158196	0	0
				kW	40891	4948	12	538	1219	4564	0	0	41738		
2	133	132 KV M/Channu	132	kWh	283020	34114	230	10879	102297	100312	0	0	530851	0	0
				kW	67309	9985	88	1656	23355	27483	0	0	107796		
3	547	132 KV S.S.Din	132	kWh	17780	2035	0	762	2195	5823	0	0	28595	0	0
				kW	8457	929	0	116	500	1595	0	0	9278		
4	186	132 KV S/Satta	132	kWh	43073	5131	0	2766	64866	13973	0	0	129808	0	0
				kW	17561	2343	0	421	14809	3828	0	0	31169		
5	183	132 KV Swl Old	132	kWh	146427	40472	1053	6751	95699	29943	0	0	320345	0	0
				kW	34824	10500	401	1028	21851	8204	0	0	65285		
6	959	132 KV A.Hassan Text	132	kWh	0	0	0	0	13673	0	0	0	13673	0	0
				kW	0	0	0	0	1357	0	0	0	1357		
7	2	132 KV A.P Eaast	132	kWh	118013	8300	48	6905	11880	63099	0	0	208243	0	0
				kW	39623	2871	18	1051	2713	17287	0	0	52758		
8	891	132 KV Alhamd Textil	132	kWh	0	0	0	0	21298	0	0	0	21298	0	0
				kW	0	0	0	0	1357	0	0	0	1357		
9	229	132 KV Ali Pur	132	kWh	107087	26792	201	12198	6495	37236	0	0	190008	0	0
				kW	39434	12234	76	1857	1481	10202	0	0	52227		
10	5	132 KV Arifwala	132	kWh	122730	15407	78	4456	23894	79400	0	0	245965	0	0
				kW	46701	6281	30	678	5462	21753	0	0	64725		
11	9	132 KV B/Nagar	132	kWh	103603	13971	164	2039	48398	8653	0	0	176829	0	0
				kW	21503	3067	63	310	11055	2371	0	0	32614		
12	1068	132 KV BWP Cantt	132	kWh	98739	13922	340	3683	3035	2586	0	0	122306	0	0

Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&E Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
				kW	30464	4674	129	561	692	709	0	0	31644		
13	626	132 KV Baghdad	132	kWh	191066	20998	914	3885	12225	14663	0	0	243753	0	0
				kW	40391	5993	348	591	2789	4017	0	0	43304		
14	8	132 KV Bahawal Pur	132	kWh	306553	61549	1301	8750	44848	10801	0	0	433803	0	0
				kW	72906	14638	495	1332	10239	2959	0	0	87183		
15	12	132 KV Basti Malook	132	kWh	110379	7341	0	3605	52832	97640	0	0	271797	0	0
				kW	36001	3223	0	549	12064	26751	0	0	62870		
16	1093	132 KV Bati Bangla	132	kWh	23077	1332	21	1967	96	4761	0	0	31252	0	0
				kW	7983	608	8	299	21	1304	0	0	8179		
17	17	132 KV Bonga Hayat	132	kWh	61564	11434	8	1135	1754	71094	0	0	146989	0	0
				kW	41340	5933	3	173	399	19478	0	0	53861		
18	18	132 KV Bosan Road	132	kWh	347254	114618	3749	9280	19015	1461	0	0	495376	0	0
				kW	99102	36345	1426	1412	4340	400	0	0	121573		
19	20	132 KV Burewala New	132	kWh	212667	30201	96	9476	39041	48178	0	0	339659	0	0
				kW	60693	8619	37	1442	8915	13199	0	0	78969		
20	989	132 KV Burewala old	132	kWh	56448	3267	0	2243	15504	33421	0	0	110883	0	0
				kW	53698	2869	0	341	7164	9156	0	0	62245		
21	729	132 KV CTM Ismailaba	132	kWh	1	0	0	0	80534	0	0	0	80536	0	0
				kW	0	0	0	0	10741	0	0	0	10741		
22	528	132 KV Chak 211/WB	132	kWh	88047	4487	0	4529	1148	37509	0	0	135720	0	0
				kW	32423	2049	0	689	261	10276	0	0	36559		
23	538	132 KV Chak No.83/12	132	kWh	84543	3150	0	3672	5029	71755	0	0	168150	0	0
				kW	24746	1564	0	559	1150	19659	0	0	38142		
24	728	132 KV Chishtian	132	kWh	172126	16153	433	4475	24384	60611	0	0	278181	0	0
				kW	54581	7376	165	681	5568	16606	0	0	67981		

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Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
25	29	132 KV Choubara	132	kWh	19193	3078	68	303	762	356	0	0	23760	0	0
				kW	9129	1528	26	46	173	98	0	0	9130		
26	730	132 KV Chowk Azam	132	kWh	54676	7996	6	1593	10327	1090	0	0	75689	0	0
				kW	21523	3260	2	242	2358	299	0	0	22977		
27	31	132 KV Chowk Munda	132	kWh	69101	14885	0	4730	93442	7331	0	0	189490	0	0
				kW	10518	2427	0	720	21333	2008	0	0	29605		
28	773	132 KV Chunawala	132	kWh	12016	984	0	1603	409	1713	0	0	16725	0	0
				kW	5715	401	0	244	92	469	0	0	5745		
29	775	132 KV Coca Cola	132	kWh	0	0	0	0	18678	0	0	0	18678	0	0
				kW	0	0	0	0	2827	0	0	0	2827		
30	33	132 KV D.G Khan	132	kWh	191749	35979	172	5650	27036	23141	0	0	283726	0	0
				kW	34202	6733	65	860	6174	6340	0	0	46218		
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		
32	706	132 KV DG Cement Fac	132	kWh	6	0	0	0	12256	0	0	0	12262	0	0
				kW	1	0	0	0	1131	0	0	0	1132		
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		
34	36	132 KV Damar Wala	132	kWh	69971	18055	0	63163	4951	23480	0	0	179619	0	0
				kW	26625	8588	0	9614	1129	6433	0	0	41911		
35	982	132 KV Dunya Pur	132	kWh	90113	8071	0	3612	8661	56228	0	0	166686	0	0
				kW	31172	3685	0	550	1977	15405	0	0	42231		
36	541	132 KV Faqirwali	132	kWh	42433	1734	0	1980	1811	597	0	0	48555	0	0
				kW	9688	566	0	301	418	164	0	0	8909		
37	642	132 KV Fateh Pur	132	kWh	89778	9271	21	4061	4093	3609	0	0	110833	0	0

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Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
				kW	31056	4601	8	618	934	989	0	0	30565		
38	274	132 KV Fazal Pur	132	kWh	16230	3812	0	655	3077	6601	0	0	30375	0	0
				kW	6389	1741	0	100	703	1808	0	0	8592		
39	530	132 KV Feroza	132	kWh	45672	12089	0	1533	2216	5890	0	0	67399	0	0
				kW	14896	4600	0	233	504	1614	0	0	17478		
40	705	132 KV Fort Manroo	132	kWh	372	960	0	0	0	1463	0	0	2795	0	0
				kW	424	1096	0	0	0	401	0	0	1537		
41	276	132 KV Fortabbas	132	kWh	70484	7306	37	2772	5982	3863	0	0	90444	0	0
				kW	20115	2780	14	422	1369	1058	0	0	20607		
42	42	132 KV Garah More	132	kWh	112890	6321	13	7198	7737	41155	0	0	175315	0	0
				kW	37903	3137	5	1096	1393	11275	0	0	43848		
43	52	132 KV Gujrat South	132	kWh	29769	472	0	3191	4389	1441	0	0	39263	0	0
				kW	8496	216	0	486	808	395	0	0	8320		
44	58	132 KV Harappa	132	kWh	112747	8310	0	2989	86191	50575	0	0	260812	0	0
				kW	35752	2314	0	455	19678	13856	0	0	57643		
45	924	132 KV Haroonabad	132	kWh	210653	24628	28	4101	41901	10002	0	0	291314	0	0
				kW	57255	8519	11	624	9567	2740	0	0	62973		
46	472	132 KV Hasilpur	132	kWh	163673	19538	312	5922	22355	38860	0	0	250660	0	0
				kW	46710	6372	119	901	5104	10647	0	0	57978		
47	1123	132 KV Hota	132	kWh	27827	1275	0	1294	254	73511	0	0	104161	0	0
				kW	19854	1323	0	197	58	20140	0	0	33257		
48	531	132 KV J.D.W	132	kWh	58502	4736	0	3565	13430	74097	0	0	154331	0	0
				kW	35149	2703	0	543	3066	20301	0	0	49409		
49	69	132 KV Jahanian	132	kWh	162745	14332	32	5805	13242	71490	0	0	267646	0	0
				kW	46446	5113	12	884	3023	19586	0	0	62303		

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Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
50	1072	132 KV Jail Road	132	kWh	123833	10921	488	5478	42693	8419	0	0	191832	0	0
				kW	33658	3117	186	834	9749	2307	0	0	42372		
51	285	132 KV Jalal Pur Pir	132	kWh	124482	8507	0	7697	13873	72440	0	0	226999	0	0
				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	0
				kW	14609	3051	0	148	1128	330	0	0	15992		
53	743	132 KV Jam Pur	132	kWh	50731	6905	54	899	3719	1021	0	0	63329	0	0
				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	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	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	0
				kW	14652	3002	0	483	330	3448	0	0	17532		
57	297	132 KV K.P.Tamewali	132	kWh	71048	4882	72	4849	2600	62224	0	0	145675	0	0
				kW	23173	2229	27	738	592	17048	0	0	35046		
58	88	132 KV K/Khuh	132	kWh	105826	6677	0	3243	7985	95462	0	0	219193	0	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	0
				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	0	0
				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	0	0
				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	0

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Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
				kW	32255	2479	28	350	36392	3677	0	0	63904		
63	927	132 KV Kahror Pacca	132	kWh	155255	11114	90	5767	8257	192009	0	0	372492	0	0
				kW	63297	6343	34	878	1885	52605	0	0	100034		
64	1113	132 KV Kamir	132	kWh	27227	479	0	580	3313	18072	0	0	49671	0	0
				kW	12950	322	0	88	758	4951	0	0	15255		
65	685	132 KV Karam Pur	132	kWh	48767	1989	0	827	2661	80345	0	0	134589	0	0
				kW	27835	649	0	126	607	22012	0	0	40983		
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		
67	112	132 KV Kot Adu	132	kWh	110218	26180	467	10431	13697	10502	0	0	171496	0	0
				kW	29260	7865	178	1588	3130	2877	0	0	35918		
68	544	132 KV Kot Chutta	132	kWh	80689	8687	0	2138	37039	4721	0	0	133274	0	0
				kW	26317	3419	0	325	8455	1293	0	0	31849		
69	313	132 KV Lal Sohanra	132	kWh	21680	3163	0	2570	2615	11034	0	0	41061	0	0
				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	0
				kW	30730	3122	0	713	11505	15084	0	0	48924		
71	316	132 KV Layyah	132	kWh	98504	14844	324	5262	8169	4486	0	0	131589	0	0
				kW	35140	5843	123	801	1865	1229	0	0	37351		
72	122	132 KV Liaqat Pur	132	kWh	35097	9788	78	1310	4400	3939	0	0	54612	0	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	0
				kW	55797	5281	38	1077	5197	38273	0	0	84530		
74	317	132 KV Ludden	132	kWh	65888	3581	0	2393	5096	90351	0	0	167309	0	0
				kW	28929	1947	0	364	1162	24754	0	0	45724		

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Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
75	534	132 KV M.W.Q	132	kWh	86975	16384	7	4805	7829	18598	0	0	134598	0	0
				kW	39715	9352	3	731	1790	5095	0	0	45349		
76	140	132 KV M/Garh	132	kWh	175559	26095	169	8610	289242	15977	0	0	515652	0	0
				kW	51387	9930	64	1310	66042	4377	0	0	113144		
77	766	132 KV M/Rasheed	132	kWh	95608	3822	0	4043	17355	46067	0	0	166894	0	0
				kW	36380	1455	0	615	3963	12621	0	0	45679		
78	132	132 KV MESCO	132	kWh	297491	90155	3226	14340	76567	1980	0	0	483759	0	0
				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	0
				kW	36167	16828	0	4184	720	6623	0	0	51617		
80	552	132 KV Mailsi	132	kWh	165733	14200	336	8200	11338	142843	0	0	342650	0	0
				kW	54055	5590	128	1248	2587	39135	0	0	82194		
81	1059	132 KV Makhdoom Pur	132	kWh	66678	5450	0	3753	4081	28635	0	0	108598	0	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	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	0
				kW	14207	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	0	0
				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	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	0
				kW	23216	1001	2	230	4130	17217	0	0	36636		
87	546	132 KV Noor Sar	132	kWh	38993	2346	0	1451	2478	7432	0	0	52700	0	0

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Sr No.	Grid Number	Name of Grid Station	KV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive-Power (Mvar)
										Private	Public				
				kW	12718	924	0	221	566	2036	0	0	13172		
88	934	132 KV PAEC S.Sarwar	132	kWh	39265	0	0	0	0	0	0	0	39265	0	0
				kW	10424	0	0	0	0	0	0	0	10424		
89	724	132 KV PARCO R/Pur	132	kWh	1	0	0	0	16372	0	0	0	16373	0	0
				kW	0	0	0	0	3279	0	0	0	3279		
90	933	132 KV PMDC DGK	132	kWh	6076	0	0	0	0	0	0	0	6076	0	0
				kW	1734	0	0	0	0	0	0	0	1734		
91	154	132 KV Pakpattan	132	kWh	188794	17777	193	5041	31435	156475	0	0	399716	0	0
				kW	65309	6342	73	767	7175	42870	0	0	98029		
92	165	132 KV Qaboola	132	kWh	61728	1906	0	1712	4314	107947	0	0	177607	0	0
				kW	32030	1088	0	261	984	29574	0	0	51149		
93	166	132 KV Qadir Abad	132	kWh	92279	3094	0	1751	14050	10288	0	0	121462	0	0
				kW	37622	1413	0	266	3208	2819	0	0	36262		
94	763	132 KV Qasim Bagh	132	kWh	122000	17757	3747	27254	9850	1986	0	0	182594	0	0
				kW	30949	5334	1426	4148	2248	544	0	0	37952		
95	168	132 KV QasimPur	132	kWh	275596	45705	1804	28402	177925	33349	0	0	562781	0	0
				kW	78652	14101	686	4323	40623	9137	0	0	118017		
96	171	132 KV R.Y.K	132	kWh	357905	61082	496	18004	266196	44875	0	0	748558	0	0
				kW	65898	11621	189	2740	60773	12294	0	0	130488		
97	767	132 KV R.Y.K-II	132	kWh	123433	28359	139	3057	107155	4713	0	0	266857	0	0
				kW	45453	12950	53	465	24472	1291	0	0	71981		
98	354	132 KV Rajan Pur	132	kWh	110556	18379	335	4277	15733	18384	0	0	167664	0	0
				kW	35057	5994	127	651	3591	5037	0	0	40366		
99	589	132 KV Rojhan	132	kWh	17304	5140	6	1162	449	3700	0	0	27761	0	0
				kW	7901	2173	2	177	102	1014	0	0	9096		

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Sr. No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
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	0
				kW	14288	2228	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	0
				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		
105	536	132 KV Sheikh fazal	132	kWh	81184	5557	0	4375	14507	39922	0	0	145545	0	0
				kW	28084	3021	0	666	3313	10937	0	0	36817		
106	374	132 KV Shujabad	132	kWh	146773	10299	259	9178	12728	71984	0	0	251221	0	0
				kW	52359	4703	98	1397	2908	19722	0	0	64949		
107	551	132 KV Swl New	132	kWh	203476	30822	470	6363	26309	16512	0	0	283953	0	0
				kW	61125	9259	179	968	6006	4524	0	0	69753		
108	216	132 KV Taunsa	132	kWh	109241	13478	0	3266	11199	32742	0	0	169925	0	0
				kW	31176	6689	0	497	2556	8970	0	0	39911		
109	932	132 KV Uch Sharif	132	kWh	80524	6252	1	4965	3853	40099	0	0	135695	0	0
				kW	26263	3103	0	756	879	10986	0	0	33590		
110	219	132 KV Vehari	132	kWh	202140	48971	495	13887	28463	97271	0	0	391226	0	0
				kW	57688	16442	188	2114	6502	26650	0	0	90955		
111	220	132 KV Vehari Road	132	kWh	288579	43548	1635	54502	87111	16542	0	0	491916	0	0
				kW	59896	11047	622	8296	19837	4532	0	0	88638		
112	1041	132 KV WAPDA Town	132	kWh	96067	9334	447	967	4992	41	0	0	111849	0	0

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Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&I, Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
				kW	26748	2880	170	147	1147	11	0	0	26438		
113	404	132 KV Yazman	132	kWh	105366	10550	182	4880	9611	1435	0	0	132025	0	0
				kW	26729	3441	69	743	2193	393	0	0	26855		
114	27	132 KV chichawatni	132	kWh	162889	22456	0	5922	38943	56440	0	0	286651	0	0
				kW	47679	6746	0	901	8897	15463	0	0	67733		
115	65	132 KV industrial Es	132	kWh	250055	20766	215	8606	218766	13347	0	0	511756	0	0
				kW	55971	4559	82	1310	49944	3657	0	0	98194		
116	1118	132 Miran Pur	132	kWh	29316	1354	0	1197	516	32309	0	0	64691	0	0
				kW	19686	1405	0	182	118	8852	0	0	25101		
117	815	220 KV Nau Abad B/P	220	kWh	60105	3327	59	5164	13342	36968	0	0	118964	0	0
				kW	18544	2234	22	786	3046	10128	0	0	27808		
118	818	220 KV PARCO Gujrat	220	kWh	0	0	0	0	231729	0	0	0	231729	0	0
				kW	0	0	0	0	48957	0	0	0	48957		
119	806	220 KV Vehari	220	kWh	73930	4732	180	5423	11781	43344	0	0	139391	0	0
				kW	21099	1801	69	825	2689	11875	0	0	30686		
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	0	0	44128		
121	115	66 KV Bakhshan Khan	66	kWh	10174	4832	0	3106	850	5590	0	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	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	66	kWh	19849	2595	0	365	1030	5938	0	0	29778	0	0

Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&I Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
				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	275	1110	3535	0	0	31148		
128	543	66 KV Kot Sultan	66	kWh	41901	4796	19	2142	1661	1395	0	0	51914	0	0
				kW	9379	1304	7	326	380	382	0	0	9422		
129	606	66 KV Maroot	66	kWh	57653	3319	0	447	12245	75229	0	0	148892	0	0
				kW	27423	1579	0	68	2793	20611	0	0	41978		
130	327	66 KV Mciod Gunj	66	kWh	65004	4696	0	1865	5689	9103	0	0	86357	0	0
				kW	21202	1787	0	284	1298	2494	0	0	21651		
131	545	66 KV Minchinabad	66	kWh	63175	5249	0	1675	1666	12941	0	0	84706	0	0
				kW	23264	2724	0	255	380	3545	0	0	24134		
132	550	66 KV Nawan Kot	66	kWh	6058	842	0	27	216	335	0	0	7477	0	0
				kW	2305	370	0	4	49	92	0	0	2255		
133	549	66 KV Rang Pur	66	kWh	13117	3428	17	1197	1560	20078	0	0	39395	0	0
				kW	4991	1449	6	182	355	5501	0	0	9987		
134	1221	Arifwala-II	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
135	1333	Arifwala-II	132	kWh	55759	3147	0	3283	21973	42793	0	0	126955	0	0
				kW	16974	1026	0	400	4008	8906	0	0	25404		
136	1226	Bahawal Nagar-II	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		

Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
137	1346	Bahawal Nagar-II	132	kWh	108678	10321	80	4114	35940	20339	0	0	179473	0	0
				kW	18045	1813	24	501	6559	4274	0	0	26908		
138	1232	Buch Villas	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
139	1354	Buch Villas	132	kWh	79637	8517	7	5162	14200	6372	0	0	113894	0	0
				kW	17738	2102	2	629	2592	1362	0	0	21172		
140	1216	D.G Khan-III	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
141	1322	D.G Khan-III	132	kWh	10180	1947	0	229	2662	150	0	0	15168	0	0
				kW	1453	291	0	28	484	33	0	0	1955		
142	1323	D.G Khan-III	132	kWh	26907	2920	0	1592	3469	2313	0	0	37202	0	0
				kW	10239	1067	0	194	634	451	0	0	10420		
143	1235	Derawar More	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
144	1358	Derawar More	132	kWh	58820	11133	229	1674	5057	3915	0	0	80827	0	0
				kW	15799	3081	70	204	924	738	0	0	17697		
145	1359	Derawar More	132	kWh	24892	2323	0	779	1341	241	0	0	29576	0	0
				kW	5683	848	0	95	245	49	0	0	5709		
146	1224	Donga Bonga	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
147	1342	Donga Bonga	132	kWh	57063	6722	5	1038	5961	94	0	0	70883	0	0
				kW	12408	1860	2	126	1087	17	0	0	13473		
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	0

Sr. No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
				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	0
				kW	8122	331	0	62	133	3906	0	0	10415		
151	1338	Gaggo	132	kWh	32747	1450	0	947	14193	18041	0	0	67377	0	0
				kW	7476	331	0	115	2588	3602	0	0	12268		
152	1339	Gaggo	132	kWh	37745	7428	6	3546	11359	21062	0	0	81146	0	0
				kW	10446	3230	2	432	2071	4312	0	0	16872		
153	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		
154	1341	Gaggo	132	kWh	12266	1386	0	902	7257	11347	0	0	33158	0	0
				kW	5092	633	0	110	1323	2401	0	0	7839		
155	1227	Kassowal	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
156	1347	Kassowal	132	kWh	60578	9424	0	2686	6389	18141	0	0	97218	0	0
				kW	14185	2265	0	327	1162	3805	0	0	18678		
157	1234	Khanewal-II	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
158	1357	Khanewal-II	132	kWh	89212	8551	29	4054	25407	41705	0	0	168958	0	0
				kW	17711	3124	9	494	4635	8623	0	0	29255		
159	1228	Khanpur Bagga Sher	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
160	1348	Khanpur Bagga Sher	132	kWh	0	547	0	0	80832	0	0	0	81380	0	0
				kW	0	167	0	0	14761	0	0	0	13173		
161	1225	Khichi Wala	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		

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Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
162	1344	Khichi Wala	132	kWh	79006	7697	2	2508	4384	2445	0	0	96041	0	0
				kW	14430	2008	0	305	797	387	0	0	15554		
163	1345	Khichi Wala	132	kWh	71813	7652	31	4448	10270	4501	0	0	98716	0	0
				kW	16396	2329	9	542	1872	900	0	0	19175		
164	1229	Khottan Wala	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
165	1349	Khottan Wala	132	kWh	78533	7199	188	7744	3879	1283	0	0	98825	0	0
				kW	16679	1730	57	943	706	271	0	0	17103		
166	1222	Kot Samaba	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
167	1334	Kot Samaba	132	kWh	21798	2720	0	1464	1924	15912	0	0	43818	0	0
				kW	7963	1242	0	178	348	3381	0	0	10921		
168	1335	Kot Samaba	132	kWh	38004	2956	0	729	38717	2693	0	0	83099	0	0
				kW	11196	1080	0	89	7064	590	0	0	17935		
169	1336	Kot Samaba	132	kWh	72323	26139	247	3749	13521	4951	0	0	120930	0	0
				kW	18347	6282	75	457	2463	1059	0	0	25425		
170	1240	Layyah-II	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
171	1371	Layyah-II	132	kWh	44539	2615	3	1369	1771	10656	0	0	60952	0	0
				kW	10429	1038	1	167	324	2245	0	0	11770		
172	1372	Layyah-II	132	kWh	56873	11936	474	1482	10773	702	0	0	82239	0	0
				kW	16231	3759	144	180	1967	140	0	0	19110		
173	1373	Layyah-II	132	kWh	4076	184	0	91	42	191	0	0	4583	0	0
				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

Sr. No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&E Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
				kW	0	0	0	0	0	0	0	0	0		
175	1331	Lodhran-II	132	kWh	19227	1040	0	2166	4297	12897	0	0	39627	0	0
				kW	5164	380	0	264	782	2651	0	0	7697		
176	1332	Lodhran-II	132	kWh	65050	11349	143	3464	7706	32892	0	0	120604	0	0
				kW	20485	3839	44	422	1406	7012	0	0	26996		
177	1218	Machiwal	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
178	1325	Machiwal	132	kWh	23642	346	0	1038	1147	16794	0	0	42966	0	0
				kW	17992	243	0	126	208	3516	0	0	19086		
179	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		
180	1327	Machiwal	132	kWh	34888	4872	0	2292	1824	31735	0	0	75610	0	0
				kW	7965	1309	0	279	330	6308	0	0	13923		
181	1212	Maggi More	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
182	1313	Maggi More	132	kWh	24661	2788	0	802	797	581	0	0	29629	0	0
				kW	5238	771	0	98	144	124	0	0	5163		
183	1314	Maggi More	132	kWh	10776	756	0	203	763	160	0	0	12657	0	0
				kW	2894	246	0	25	139	35	0	0	2861		
184	1219	Makhdoom Jahanian	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
185	1328	Makhdoom Jahanian	132	kWh	42113	6317	496	1204	1396	11530	0	0	63056	0	0
				kW	12019	2308	151	147	253	2417	0	0	14423		
186	1329	Makhdoom Jahanian	132	kWh	2140	549	0	343	234	5871	0	0	9137	0	0
				kW	1150	456	0	42	42	1279	0	0	2518		

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Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
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	1239	Muhammad Pur Dewan	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
189	1369	Muhammad Pur Dewan	132	kWh	16779	1561	0	459	1712	1399	0	0	21909	0	0
				kW	4788	460	0	56	313	307	0	0	4895		
190	1370	Muhammad Pur Dewan	132	kWh	23055	4410	0	649	2967	6533	0	0	37614	0	0
				kW	7260	1611	0	79	542	1432	0	0	8840		
191	1237	Nawan Kot	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
192	1364	Nawan Kot	132	kWh	51620	12564	25	2521	3474	6268	0	0	76471	0	0
				kW	13095	3019	8	307	630	1341	0	0	16205		
193	1365	Nawan Kot	132	kWh	37623	7313	0	1439	11329	1728	0	0	59431	0	0
				kW	10737	2904	0	175	2068	379	0	0	13849		
194	1366	Nawan Kot	132	kWh	21645	12051	0	762	7398	1757	0	0	43612	0	0
				kW	5648	3669	0	93	1350	385	0	0	9600		
195	1231	P.G.E.H.S	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
196	1352	P.G.E.H.S	132	kWh	447	481	0	72	21403	147	0	0	22550	0	0
				kW	151	152	0	9	3909	30	0	0	3634		
197	1353	P.G.E.H.S	132	kWh	61460	10335	0	881	5399	1915	0	0	79991	0	0
				kW	13690	2551	0	107	985	409	0	0	15342		
198	1236	Pak Pattan-II	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	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

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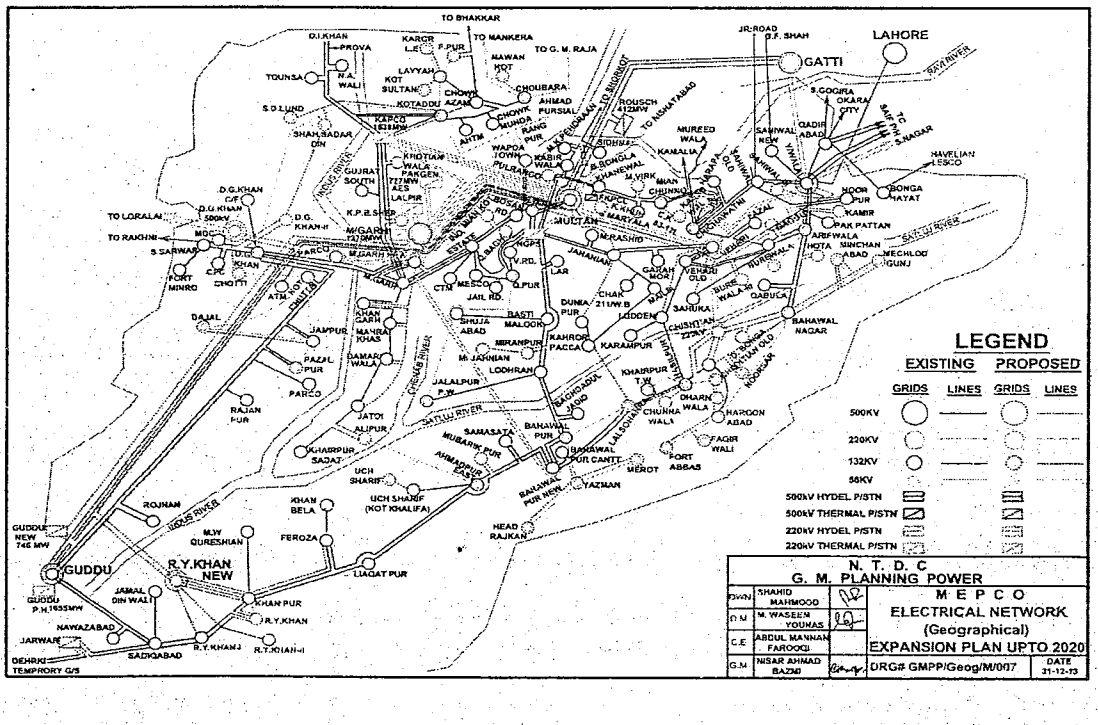
Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
				kW	10760	1475	37	176	1889	2577	0	0	13875		
200	1361	Pak Pattan-II	132	kWh	20861	3082	30	868	2142	561	0	0	27544	0	0
				kW	6350	1005	9	106	389	117	0	0	6479		
201	1362	Pak Pattan-II	132	kWh	12406	884	0	368	1047	17142	0	0	31846	0	0
				kW	4721	323	0	45	189	3622	0	0	7359		
202	1363	Pak Pattan-II	132	kWh	16630	2265	0	306	2724	1871	0	0	23795	0	0
				kW	6328	1217	0	37	497	410	0	0	6940		
203	1238	Pir Jaggi	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
204	1367	Pir Jaggi	132	kWh	41307	4583	7	1438	2587	1220	0	0	51141	0	0
				kW	13008	1495	2	175	471	241	0	0	13148		
205	1368	Pir Jaggi	132	kWh	25323	2029	0	1032	533	643	0	0	29561	0	0
				kW	4535	441	0	126	97	141	0	0	4467		
206	1214	Qadirpur Rawan	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
207	1317	Qadirpur Rawan	132	kWh	39307	5991	106	1788	2508	5199	0	0	54899	0	0
				kW	7638	1520	32	218	457	1057	0	0	8990		
208	1318	Qadirpur Rawan	132	kWh	8205	300	0	383	837	2748	0	0	12473	0	0
				kW	3406	78	0	47	150	569	0	0	3683		
209	1319	Qadirpur Rawan	132	kWh	80066	11626	4	5042	84302	19510	0	0	200550	0	0
				kW	27081	3661	1	614	15392	3984	0	0	43911		
210	1217	R.Y Khan-III	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
211	1324	R.Y Khan-III	132	kWh	110975	23016	71	3546	5545	4710	0	0	147863	0	0
				kW	23033	7507	22	432	1007	973	0	0	28143		

Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive Power (Mvar)
										Private	Public				
212	1241	Rahim Yar Khan Indus	132	kWh	0	0	0	0	175200	0	0	0	175200	0	0
				kW	0	0	0	0	32000	0	0	0	32000		
213	1215	Sanawan	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
214	1320	Sanawan	132	kWh	57338	10675	35	3245	7826	1836	0	0	80954	0	0
				kW	13091	3899	11	395	1140	364	0	0	15535		
215	1321	Sanawan	132	kWh	48260	8197	482	8156	6437	12135	0	0	83667	0	0
				kW	10250	1970	147	993	1175	2560	0	0	14302		
216	1230	Sanjar Pur	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
217	1350	Sanjar Pur	132	kWh	98760	17790	50	4001	21338	10906	0	0	152845	0	0
				kW	20975	4642	15	487	3891	2296	0	0	27977		
218	1351	Sanjar Pur	132	kWh	5631	617	0	318	0	5682	0	0	12249	0	0
				kW	3214	512	0	39	0	1187	0	0	4136		
219	1213	Shah Jamal	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
220	1315	Shah Jamal	132	kWh	44942	6565	0	2492	6169	1471	0	0	61640	0	0
				kW	10261	2398	0	303	899	292	0	0	11620		
221	1316	Shah Jamal	132	kWh	31378	6649	0	8150	1372	10124	0	0	57672	0	0
				kW	8955	2760	0	992	249	1572	0	0	12402		
222	1233	Suraj Miani	132	kWh	0	0	0	0	0	0	0	0	0	0	0
				kW	0	0	0	0	0	0	0	0	0		
223	1355	Suraj Miani	132	kWh	42550	39874	1143	3277	2791	0	0	0	89635	0	0
				kW	7772	7916	348	399	509	0	0	0	14741		
224	1356	Suraj Miani	132	kWh	16856	2007	0	2540	49746	4985	0	0	76134	0	0

MEPCO

Sr No.	Grid Number	Name of Grid Station	kV	Unit	Domestic	Commercial	Public Lighting	Small Industry	M&L Industries	Tubewell		Traction	Total of Grid Station	Power Factor (%)	Reactive-Power (Mvar)
										Private	Public				
				kW	3018	353	0	309	9085	1082	0	0	12017		

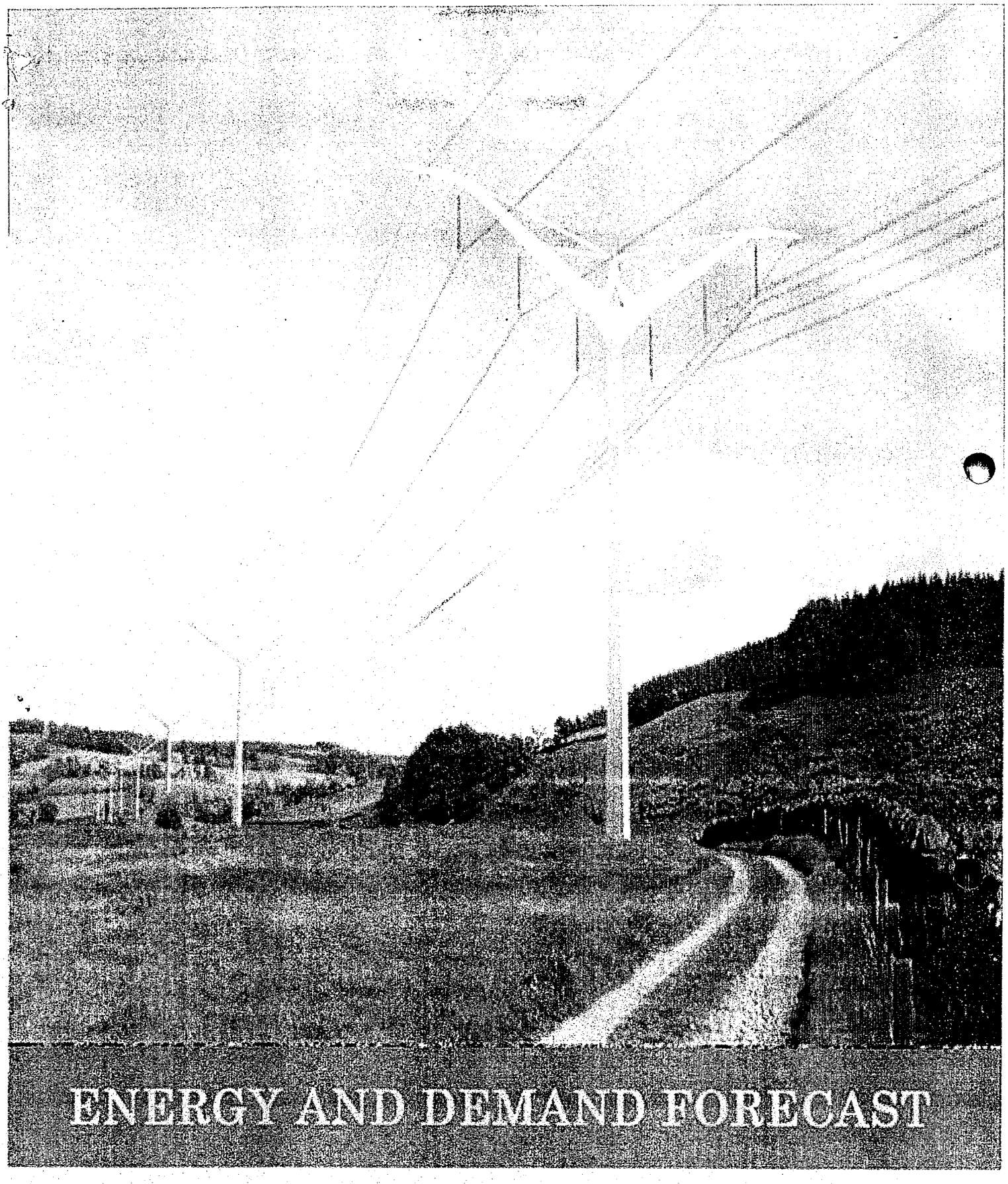
Figure 1- 10: Distribution Network Map (MEPCO)



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.



ENERGY AND DEMAND FORECAST

ANNEXURE-8

YEAR WISE STG PROJECT LIST

STG PROJECT LIST BEST CASE

LIST OF PROJECT S T/LINES & GRID STATIONS

Financial Year 2020-21

Sr. No.	Proposed Substation	Type	Transformer Capacity (MVA)	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
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
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
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. No.	Name of Grid Station	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Jalal Pur Pir Wala	2020-21	9.7	-	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 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	-	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

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. No.	Name of Grid Station	Remarks	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Kabirwala	Extension of 11KV switch room where T-3 Power Transformer panel board installed.	2020-21	2.2	-	2.2
2	132KV Basti Malook	Extension of existing 11KV switch room	2020-21	2.2	-	2.2
3	132KV Kot Addu	Extension of existing 11KV control house building	2020-21	2.2	-	2.2
4	132KV Ahmad Pur East	11KV control room (T-4)	2020-21	2.2	-	2.2
5	132KV Rahim Yar Khan-I	11KV control room (T-4)	2020-21	2.2	-	2.2
6	132KV Pakpattan	Extension required to accommodate the Panel Board on addition of 4th PTF Bay	2020-21	2.2	-	2.2
7	132KV Arif Wala	Extension required to accommodate the Panel Board on addition of 4th PTF Bay	2020-21	2.2	-	2.2
8	132KV Khanewal	Extension required to accommodate the Panel Board on addition of 4th PTF Bay	2020-21	2.2	-	2.2
9	132KV Garah More	Extension required to accommodate the Panel Board on Augmentation of PTF.	2020-21	2.2	-	2.2

10	132KV Kacha Khu	Extension required to accommodate the Panel Board on Augmentation of PTF.	2020-21	2.2	-	2.2
11	132KV 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)

Sr. No.	Name of T/Line	Length (km)	Type	Conductor	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	F/F RYK-3 (I/O of R.Y.K-1 - Sadiqbad)	5	DC	RAIL	2020-21	60	4	65
2	F/F 132 Arifwala-2 (I/O of Arifwala - Qaboola T/L)	3	DC	RAIL	2020-21	47	4	51
3	F/F132kV Rawan Road (I/O of Punjab Housing - Man Kot)	4	DC	LYNX	2020-21	31	4	35
4	F/F 132KV Pak Pattan-2 (Noorpur - Pakpattan-2)	27	DC	Rail	2020-21	288	17	305
5	F/F 132KV Gaggo (In/Out Arrangement of Arifwala - Burewala T/L at 132 KV Gagoo Mandi)	0.5	DC	LYNX	2020-21	10	-	10
6	F/F 132 KV Dajal (132 KV Jampur - 132 KV Dajal))	20	SDT	LYNX	2020-21	114	17	131
7	132 KV T/L Muzaffargarh - Khangarh	19	SC	Reconductoring with RAIL	2020-21	119	4	123
8	132 KV T/L Khangarh - Mehrakhas	24	SC	Reconductoring with RAIL	2020-21	131	9	139
9	132 KV T/L Mehrakhas - Dammarwala	16	SC	Reconductoring with RAIL	2020-21	92	4	96
10	132KV 2nd circuit Lodhran – Jalal Pur Pir Wala	40	SDT	LYNX	2020-21	55	-	55

11	132KV 2nd circuit Basti Malook - Shujabad	22	SDT	LYNX	2020-21	29	-	29
12	132KV D/C Transmission Line from 220KV Lal Sohanra – Baghdad-ul-Jadid	12	DC	Rail	2020-21	136	9	145
13	132KV G/S Shadan Lund to 132KV G/S Shah Sadar Din Din CCT	22	SDT	Rail	2020-21	173	9	181
14	132KV Transmission Line from 500KV D.G Khan - Shah Sadar Din CCT	43.9	SDT	Rail	2020-21	327	9	336
15	132 KV T/L Burewala New - Sahuka	20	SDT	RAIL	2020-21	291	17	308
16	132KV NGPS – Vehari Road T/Line	7	SC	Reconductoring with HTLS	2020-21	92	-	92
17	132KV New Multan - Qasim Pur T/L	18	SC	Reconductoring with HTLS	2020-21	271	-	271
18	132KV Vehari Road - Qasim Pur T/L	3	SC	Reconductoring with HTLS	2020-21	52	-	52
19	132KV Wapda Town – Bosan Road T/L & PGHS – Bosan Road Transmission Line (portion from **Wapda Town – Bosan Road**)	6	SC	Reconductoring with HTLS	2020-21	99	-	99
20	132KV R.Y.Khan - Sadiqabad CCT-II	21	SC	Reconductoring with Rail	2020-21	291	-	291
21	132KV Jattoi – K.P.Sadat T/Line	34	SC	Reconductoring with LYNX	2020-21	222	17	239
22	132KV D/C KAPCO – Kot Addu T/Line	2	SC	Reconductoring with HTLS	2020-21	45	-	45
23	132KV D.G Khan 1st - 500KV D.G Khan G/S CCT-1	21	SC	Reconductoring with HTLS	2020-21	293	-	293
24	132KV D.G Khan 1st - 500KV D.G Khan G/S CCT-2	21	SC	Reconductoring with HTLS	2020-21	304	-	304
25	132KV Rahim Yar Khan-1 to Sadiqabad CCT (from Tower No.36 to 65)	9.5	SC	Reconductoring with RAIL	2020-21	63	9	72

26	In/Out arrangement of 132KV Guddu - Kot Chutta T/Line at 132KV Grid Station Jampur Dajal Road	0.5	DC	LYNX	2020-21	2	-	2
27	In/Out arrangement of 132KV Sakhi Sarwar - Fort Manro – Rakhni at 132KV Grid Station Fort Manro	0.5	DC	LYNX	2020-21	3	-	3
28	In/Out arrangement of 66KV Choubara - T-off Nawan Kot - Mankera CCT at 66KV Grid Station Nawan Kot	1	DC	Dog	2020-21	11	-	11
29	220/132KV Vehari – Mailsi T/L	65	DC	LYNX	2020-21	419	9	428
30	132KV Jahanian-Dunyapur T/L	27	SDT	LYNX	2020-21	142	9	150
31	132KV Jahanian-Chak 211/WB T/L	23	SDT	LYNX	2020-21	123	9	132
32	132KV Chak 211/WB-Mailsi T/L	27	SDT	LYNX	2020-21	142	9	150
33	220/132KV Vehari-132KV Burewala T/L	47	SDT	LYNX	2020-21	237	9	245
34	132KV Mailsi-Kehror Pacca T/L	34.5	2nd Circuit Stringing	LYNX	2020-21	47	-	47
35	In/Out arrangement of 132KV Sahiwal Old –Pak Pattan T-Off Noorpur T/L at 132KV G/S Noorpur	1	DC	LYNX	2020-21	1	-	1
36	In/Out arrangement of 132KV B/Nagar – Noor Sar T-Off Qabula T/L at 132KV G/S B/Nagar	1	DC	LYNX	2020-21	2	-	2

Sub Total (F)	**4933** (MRs.)

Grand Total (A+B+C+D+E+F)	**8991** (MRs.)

LIST OF PROJECT S T/LINES & GRID STATIONS

Financial Year 2021-22

Sr. No.	Proposed Substation	Type	Transformer Capacity (MVA)	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
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	268
6	SADIQABAD-2	New	2x40	2021-22	360	30	390
7	BUDLA SANT/VEHARI ROAD-2	New	2x40	2021-22	360	30	390
8	Bosan Road	Ext	40	2021-22	117	6	124
9	Qasimpur	Ext	40	2021-22	117	6	124
10	Bahawalpur Cantt	Ext	26	2021-22	60	5	65
11	MESCO	Ext	40	2021-22	117	6	124
12	Vehari Road Multan	Ext	40	2021-22	117	6	124
13	DUNYA PUR	Ext	26	2021-22	60	5	65
14	K.P.TAMMEWALI	Ext	26	2021-22	60	5	65

15	GARHMORE	Ext	26	2021-22	60	5	65
16	KAROR	Ext	26	2021-22	98	5	103
17	LIAQATPUR	Ext	26	2021-22	60	5	65
18	Khichiwala	Aug	40	2021-22	96	0	96
19	Vehari	Aug	40	2021-22	96	0	96
20	Khichiwala	Aug	40	2021-22	96	0	96
21	Fateh Pur	Aug	40	2021-22	96	0	96
22	Layyah	Aug	40	2021-22	96	0	96
23	Kacha Khu	Aug	40	2021-22	96	0	96
24	J.D.WALI	Aug	40	2021-22	96	0	96
25	BAHAWALNAGAR	Aug	40	2021-22	96	0	96
26	GARHMORE	Aug	40	2021-22	96	0	96
27	DG KHAN-1	Aug	40	2021-22	96	0	96
28	MAN KOT	Aug	40	2021-22	96	0	96

Sub Total (A)	**4462 (MRs.)**

132 KV CAPACITOR BANKS

Sr. No.	NAME OF GRID STATION	MVAR PROPOSED	YEAR	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (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

Sub Total (B)	**102** (MRs.)

TWIN BUNDLING OF 132KV BUS BAR

Sr. No.	Name of Grid Station	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (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)	**30** (MRs.)

EXTENSION OF 11KV CONTROL HOUSE BUILDING

Sr. No.	Name of Grid Station	Remarks	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Qasim Pur Multan	Extension of existing 11KV switch room.	2021-22	2.3	-	2.3
2	132KV Chowk Munda	Extension of existing 11KV control house building	2021-22	2.3	-	2.3
3	132KV Dunyapur	Extension required to accommodate the panel board on Augmentation of PTF.	2021-22	2.3	-	2.3
4	132KV Sahiwal New	Extension required to accommodate the panel board on Augmentation of PTF.	2021-22	2.3	-	2.3

5	132KV K.P Tamewali	Extension required to accommodate the panel board on Augmentation of PTF.	2021-22	2.3	-	2.3
6	132KV Mailsi	Extension required to accommodate the panel board on Augmentation of PTF.	2021-22	2.3	-	2.3
7	66KV Nawan Kot	Extension of existing 11KV control house building	2021-22	2.3	-	2.3
8	132KV Khan Pur	11KV control room (T-1)	2021-22	2.3	-	2.3
9	132KV Rahim Yar Khan-II	11KV control room (T-2)	2021-22	2.3	-	2.3

Sub Total (D)	**21.1** (MRs.)

132 KV T/LINES (NEW+RECONDUCTORING)

Sr. No.	Name of T/Line	Length (km)	Type	Conductor	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	F/F Machiwal (I/O of Vehari 220 KV - Burewala)	1	DC	LYNX	2021-22	13	5	17
2	F/F Lodhran - 2 (I/O 220/132 KV BWP - Lodhran)	4	DC	RAIL	2021-22	52	5	57
3	F/FJatoi-2 (Jatoi - Jatoi-2 - Alipur)	36	SDT	RAIL	2021-22	310	9	319
4	F/F P.Ghaib 132 KV (I/O 220 KV NGPS - 132 Vehari Road)	2	DC	RAIL	2021-22	32	5	37
5	F/F Shah Jamal (I/O 220 KV Muzaffargarh - 132 KV D.G.Khan)	12	DC	LYNX	2021-22	95	9	104
6	F/F Sadiqabad-2 (In/Out Arrangement of Sadiqabad - J.D.W	2	DC	RAIL	2021-22	32	5	37

	Station							
20	132KV Qabula-Sahuka T/L	25	SDT	Rail	2021-22	219	9	228
21	132KV Bonga Hayat-Pak Pattan T/L	22	SDT	Rail	2021-22	198	9	207
22	132KV Lal Sonhara-Hasil Pur T/L	65	SC	Reconductoring with Rail	2021-22	242	5	247
23	132KV Yousafwala-Sahiwal New CCT-I	5	SC	Reconductoring with Rail	2021-22	43	5	48
24	132KV Mian Channu-220/132 KV Kassowal	18	SC	Reconductoring with Rail	2021-22	101	5	105
25	220/132 KV Vehari-Ludden T/L	29	SDT	Stringing of 2nd	2021-22	42	-	42

Sub Total (E)	**3065** (MRs.)

Grand Total (A+B+C+D+E)	**7680** (MRs.)

22	WAPDA TOWN	Aug	40	2020-21	90	0	90
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.)

132 KV CAPACITOR BANKS

Sr. No.	NAME OF GRID STATION	MVAR PROPOSED	YEAR	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	Head Sidhnai	24	2020-21	31.95	-	31.95
2	Lodhran	36	2020-21	37.27	-	37.27
3	Ahmed Pur 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

Sub Total (B)	**176** (MRs.)

TWIN BUNDLING OF 132KV BUS BAR

Sr. No.	Name of Grid Station	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (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

LIST OF PROJECT S T/LINES & GRID STATIONS

Financial Year 2022-23

Sr. No.	Proposed Substation	Type	Transformer Capacity (MVA)	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	Khanewal-2	New	2X40	2022-23	383	32	415
2	Muzaggargarh-2	New	2x40	2022-23	383	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 CHANNU-2	New	2x40	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
14	BAHAWALPUR	Ext	26	2022-23	104	6	110
15	CHOTI	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

22	Karam Pur	Aug	40	2022-23	102	0	102
23	A.P.EAST	Aug	40	2022-23	102	0	102
24	K.P.TAMMEWALI	Aug	40	2022-23	102	0	102
25	MAN KOT	Aug	40	2022-23	102	0	102
26	GUJRAT SOUTH	Aug	40	2022-23	102	0	102
27	MAN KOT	Aug	40	2022-23	102	0	102

Sub Total (A)	**4224** (MRs.)

132 KV CAPACITOR BANKS

Sr. No.	NAME OF GRID STATION	MVAR PROPOSED	YEAR	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (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	-	42.27

Sub Total (B)	**124** (MRs.)

TWIN BUNDLING OF 132KV BUS BAR

Sr. No.	Name of Grid Station	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Choubara	2022-23	5.3	-	5.3
2	132KV Chowk Munda	2022-23	5.3	-	5.3
3	132KV Mubarak Pur	2022-23	5.3	-	5.3

Sub Total (C)	**16** (MRs.)

EXTENSION OF 11KV CONTROL HOUSE BUILDING

	Power Plant T/L at 132 KV Sadiqabad-2)							
7	F/F Budla Sant/Vehari Road-2 (In/Out Arrangement of P.Ghaib - Makhdom Rashid T/L at 132 KV Budla Sant)	3	DC	LYNX	2021-22	38	5	43
8	132 KV T/L KAPCO - Gujrat - Muzaffargarh	60	DC	Reconductoring with RAIL	2021-22	59	-	59
9	132 KV T/L Yazman - Maroot	66	SDT	RAIL	2021-22	544	9	553
10	500KV Sardar Garh- Jamal Din Wali T/Line	45	SDT	Rail	2021-22	390	9	399
11	132KV Layyah – Karor T/Line	29	SDT	LYNX	2021-22	40	-	40
12	132KV NGPS – Basti Malook T/Line	44	SC	Reconductoring with LYNX	2021-22	67	-	67
13	132KV Industrial Estate – Jail Road – Mesco T/Line	17	SC	Reconductoring with LYNX	2021-22	29	-	29
14	132KV Sadiqabad-Guddu T/Line	46	SC	Reconductoring with LYNX	2021-22	72	-	72
15	132KV Rahim Yar Khan - Sardar Garh CCT-II	54	SC	Reconductoring with LYNX	2021-22	84	-	84
16	132KV Rahim Yar Khan -I - Rahim Yar Khan-II T/Line	15	SC	Reconductoring with LYNX	2021-22	24	-	24
17	132KV R.Y.Khan-II-Sardar Garh CCT-I	54	SC	Reconductoring with LYNX	2021-22	83	-	83
18	132KV Kot Addu – Chowk Munda T/Line	38	SC	Reconductoring with LYNX	2021-22	62	-	62
19	IN & Out arrangement of 132KV NGPS – Khanewal Transmission Line at Kabirwala Grid	13	DC	LYNX	2021-22	99	5	103

Sr. No.	Name of Grid Station	Remarks	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Ludden	Extension required to accommodate the panel board on Augmentation of PTF.	2022-23	2.5	-	2.5
2	132KV Karam Pur	Extension required to accommodate the panel board on Bifurcation of 11 KV Feeders.	2022-23	2.5	-	2.5
3	132KV Jalal Pur Pir Wala	Extension with new control room for T-3 Power Transformer	2022-23	2.5	-	2.5
4	132KV Makhdum Rashid	Extension of existing 11KV switch room.	2022-23	2.5	-	2.5
5	132KV Damar 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. No.	Name of T/Line	Length (km)	Type	Conductor	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	F/F Khanewal-2 (I/O of NGPS - Khanewal)	1	DC	LYNX	2022-23	32	5	37
2	F/F Muzaffargarh-2 (220/132 KV Muzaffargarh - Muzaffargarh-2)	5	SDT	RAIL	2022-23	66	5	71
3	F/F Vehari-2 (Vehari 220/132 Kv - Vehari-2)	8	SDT	RAIL	2022-23	93	5	98
4	F/F Kot Mithan (I/O Rjanpur - Rojhan)	6	DC	LYNX	2022-23	65	5	70
5	F/F Drawar More (132 KV Head Rajkan - 132 KV Drawar More)	24	DC	RAIL	2022-23	314	10	324

6	F/F 132 KV Kot khalifa (I/O of APE - Liaqatpur)	7	DC	LYNX	2022-23	64	5	69
7	F/F 132 KV Musa Virk Mian Channu-2 (In/Out Arrangement of Khanewal -Chak-83 T/L at 132 KV Mian Channu-2)	2	DC	LYNX	2022-23	34	5	39
8	132 KV T/L Haroonabad - Faqirwali - Faortabbas - Maroot	86	Second Circuit	2nd Line Stringing With LYNX	2022-23	164	-	164
9	I/O of Kotchutta - Guddu 132 KV T/L at Fazilpur	0.5	DC	LYNX	2022-23	22	-	22
10	I/O of Kotchutta - Guddu 132 KV T/L at Rajanpur	0.5	DC	LYNX	2022-23	22	-	22
11	I/O of Kotchutta - Guddu 132 KV T/L at Rujhan	0.5	DC	LYNX	2022-23	22	-	22
12	I/O of RYK 500/220/132 KV - 132 KV R.Y.K-1 T/L at M.W.Qureshian	3	DC	RAIL	2022-23	62	5	67
13	132KV D/C T/L from New Multan – PGHS	4	DC	Rail	2022-23	72	5	77
14	132KV Shujabad – Jalal Pur Pir Wala D/C T/Line	42	DC	Rail	2022-23	523	10	533
15	132KV Lar – Basti Malook T/Line	19	DC	Reconductoring with LYNX	2022-23	60	-	60
16	132KV Nawazabad – Guddu T/Line	17	DC	Reconductoring with LYNX	2022-23	56	-	56
17	132KV Sadiqabad-Nawazabad T/Line	32	DC	Reconductoring with LYNX	2022-23	97	-	97
18	132KV Kot Addu – Chowk Azam T/Line	90	DC	Reconductoring with LYNX	2022-23	258	-	258
19	132KV Pak Pattan-Pak Pattan-2 T/L	4	DC	Rail	2022-23	40	-	40
20	132KV Sahiwal Old-Pak Pattan T-Off Noorpur	51	SC	Reconductoring with	2022-23	314	10	323

				Rail				
21	132KV Khanewal-Kacha KhuT/L	37	SC	Recond uctorin g with Rail	2022-23	231	10	241
22	132KV Yousawala-Sahiwal New CCT-II	5	SC	Recond uctorin g with Rail	2022-23	46	5	51

Sub Total (E)	**2743** (MRs.)

Grand Total (A+B+C+D+E)	**7120** (MRs.)

LIST OF PROJECT S T/LINES & GRID STATIONS

Financial Year 2023-24

Sr. No.	Proposed Substation	Type	Transformer Capacity (MVA)	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (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	CHAK 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

23	BASTI MALOOK	Aug	40	2023-24	108	0	109
24	CHAK-211	Aug	40	2023-24	108	0	109
25	QABULA	Aug	40	2023-24	108	0	109
26	HEAD SIDHNAI	Aug	40	2023-24	108	0	109

Sub Total (A)	3996 (MRs.)

132 KV CAPACITOR BANKS

Sr. No.	NAME OF GRID STATION	MVAR PROPOSED	YEAR	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (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. No.	Name of Grid Station	Remarks	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Jamal Din Wali	11KV control room (T-2)	2023-24	2.7	-	2.7

Sub Total (C)	2.7 (MRs.)

132 KV T/LINES (NEW+RECONDUCTORING)

Sr. No.	Name of T/Line	Length (km)	Type	Conductor	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	F/F Kot Samaba (I/O 500KV R.Y.K -	2	DC	LYNX	Year 4	44	5	49

	132 KV R.Y.K)							
2	F/F Bahawalpur-2 (I/O B.U.Jadid - Bahawalpur)	0.5	DC	LYNX	Year 4	24	-	24
3	F/F Array Wahan (I/O of Karorpacca - Mailsi)	3	DC	LYNX	Year 4	30	5	35
4	F/F 132 KV Nawakot (132 KV Choubara - 132 KV Nawakot)	20	SDT	LYNX	Year 4	126	5	131
5	F/F 132 KV Chichawatni-2 (In/Out Arrangement of Chichawatni - Sheikh Fazil T/L at 132 KV Chichawatni-2)	2	DC	LYNX	Year 4	24	5	29
6	132 KV T/L Lal Sohanra - QA Solar	26.6	SDT	RAIL	Year 4	262	10	272
7	132 KV T/L Lal Sohanra - Karorpacca	22	SDT	RAIL	Year 4	218	10	229
8	132 KV T/L Qasimpur - Shujabad	35	SDT	RAIL	Year 4	344	10	354
9	132 KV T/L Qasimpur - BastiMalook	35	SDT	RAIL	Year 4	344	10	354
10	132KV Basti Malook – Lodhran T/Line	32	SC	Reconductoring with LYNX	Year 4	56	-	56
11	132KV Chowk Munda – Choubara T/Line	76	SC	Reconductoring with LYNX	Year 4	117	-	117
12	132KV Sardar Garh - Khan Pur CCT-I	29	SC	Reconductoring with LYNX	Year 4	52	-	52
13	132KV Sardar Garh - Khan Pur CCT-II	29	Sc	Reconductoring with LYNX	Year 4	52	-	52
14	132KV CCWatni-Sheikh Fazal T/L	29	SC	Reconductoring with LYNX	Year 4	52	-	52

Sub Total (D)	**1806** (MRs.)
Grand Total (A+B+C+D)	**5892** (MRs.)

LIST OF PROJECT S T/LINES & GRID STATIONS

Financial Year 2024-25

Sr. No.	Proposed Substation	Type	Transformer Capacity (MVA)	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (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	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	0	116

22	Jehania	Aug	40	2024-25	116	0	116
23	M.W.Qureshian	Aug	40	2024-25	116	0	116
24	Burewala Old	Aug	40	2024-25	116	0	116
25	MUBARAKPUR	Aug	40	2024-25	116	0	116
26	UCH SHARIF	Aug	40	2024-25	116	0	116
27	TAUNSA SHARIF	Aug	40	2024-25	116	0	116
28	MUBARAKPUR	Aug	40	2024-25	116	0	116

Sub Total (A)	**4025**(MRs.)

EXTENSION OF 11KV CONTROL HOUSE BUILDING

Sr. No.	Name of Grid Station	Remarks	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Khan Bela	11KV control room (T-1)	2024-25	2.8	-	2.8
2	132KV Mian Wali Qurashain	11KV control room (T-1)	2024-25	2.8	-	2.8

Sub Total (B)	**5.7** (MRs.)

132 KV T/LINES (NEW+RECONDUCTORING)

Sr. No.	Name of T/Line	Length (km)	Type	Conductor	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	F/F Ind Est-2 (I/O IndEst - Coca Cola)	2	DC	LYNX	2024-25	26	6	31
2	F/F DGK-3 (I/O 500KV DG Khan - S.S.Din)	3.5	DC	LYNX	2024-25	36	6	41
3	F/F Makhdoom Jahanian (Miranpur	25	SDT	RAIL	2024-25	262	11	273

	- Makhdoom Jahanian)							
4	F/F Liaqatpur-2 (I/O Liaqatpur - A.P.E)	3	DC	LYNX	2024-25	32	6	38
5	F/F Pull Panju (132 KV Dunyapur - 132 KV Pull Panju)	8	DC	RAIL	2024-25	118	11	129
6	F/F Kot Addu-2 (In/Out Arrangement of Kot Adu -Kot Sultan T/L at 132 KV Kotadu-2)	5	DC	LYNX	2024-25	47	6	52
7	132 KV T/L NGPS - Makhdoom Rashid	28	SDT	Reconductoring with RAIL	2024-25	194	11	205
8	132 KV T/L Karorpacca - Mailsi	36	SDT	RAIL	2024-25	370	11	381
9	132 KV T/L Yousafwala - Arifwala	51	SDT	Reconductoring 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 Million)
Annaul Development plan FY 2020-21			
Sr No	Name of Work	Type	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. No.	Name of Transmission Line	Length (Km)	Type	Conductor	Total
1	132 KV T/L Fort Abbas--Maroot	48.000	SDT	LYNX	106.410
2	132KV T/L Bahawalnagar-II-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--500 KV DG Khan	16.710	SDT	LYNX	36.129
5	500 KV Rahim Yar Khan--Feroza	35.500	DC	RAIL	116.065
6	500 KV Rahim Yar Khan--Rahim Yar Khan Industrial Estate	50.000	DC	RAIL	225.688
7	132 KV D/C T/L from Kot Addu G/S----Kot Sultan-Layyah	66.660	DC	RAIL	186.134
8	132 KV D/C T/L from Layyah G/S--Kehror Lal Eason	28.800	SDT	LYNX	103.648
9	132 KV T/L Arifwala-Hota-Bahawal Nagar	38.800	SC	Reconductoring with LYNX	149.931
10	132 KV T/L DG Khan---Shah Sadar Din	27.000	SDT	LYNX	33.455
11	132 KV T/L New Multan-NGPS	8.900	DC	Reconductoring 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 Yazman--Head Rajkan	26.000	SDT	LYNX	123.963
14	132 KV T/L NGPS--Industrial estate	5.000	SC	Reconductoring with HTLS	27.736
15	132 KV T/L Chowk Azam--Layyah	26.000	Second Circuit Stringing	LYNX	24.39
	TOTAL >>				1,479.415
Grand Total >>					2,370.4

LIST OF PROJECTS T/LINES & GRID STATIONS
FINANCIAL YEAR 2

Sr. No.	Proposed Substation	Type	Transformer Capacity (MVA)	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total 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)							**2747**

132 KV T/LINES (NEW+RECONDUCTORING)

Sr. No.	Name of T/Line	Length (km)	Type	Conductor	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	F/F RYK-3 (I/O of R.Y.K-1 - Sadiqbad)	5	DC	RAIL	Year 2	60	4	65
2	F/F 132 Arifwala-2 (I/O of Arifwala - Qaboola T/L)	3	DC	RAIL	Year 2	47	4	51
3	F/F132kV Rawan Road (I/O of Punjab Housing - Man Kot)	4	DC	LYNX	Year 2	31	4	35
4	F/F 132KV Pak Pattan-2 (Noorpur - Pakpattan-2)	27	DC	Rail	Year 2	288	17	305
5	F/F 132KV Gaggo (In/Out Arrangement of Arifwala - Burewala T/L at 132 KV Gagoo Mandi)	1	DC	LYNX	Year 2	29	4	33
6	F/F 132 KV Dajal (132 KV Jampur - 132 KV Dajal))	20	SDT	LYNX	Year 2	114	17	131
7	132 KV T/L Muzaffargarh - Khangarh	19	SC	Reconductoring with RAIL	Year 2	119	4	123
8	132 KV T/L Khangarh - Mehrakhas	24	SC	Reconductoring with RAIL	Year 2	131	9	139

9	132 KV T/L Mehrakhas - Dammarwala	16	SC	Reconductoring with RAIL	Year 2	92	4	96
10	132 KV T/L Burewala New - Sahuka	20	SDT	RAIL	Year 2	291	17	308
SUB TOTAL (B)								**1286**

132 KV CAPACITOR BANKS

Sr. No.	NAME OF GRID STATION	MVAR PROPOSED	YEAR	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	Head Sidhnai	24	Year-1	31.95	-	32
2	Lodhran	36	Year-1	37.27	-	37
SUB TOTAL (C)						**69**

CONVERSION OF ISO BAYS INTO LINE BAYS

Sr. No.	Name of Grid Station	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Jalal Pur Pir 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

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 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. No.	Name of Grid Station	Remarks	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Kabirwala	Extension of 11KV switch room where T-3 Power Transformer panel board installed.	Year 2	2.2	-	2.2
2	132KV	Extension of existing 11KV	Year 2	2.2	-	2.2

	Basti Malook	switch room				
3	132KV Kot Addu	Extension of existing 11KV control house building	Year 2	2.2	-	2.2
4	132KV Ahmad Pur East	11KV control room (T-4)	Year 2	2.2	-	2.2
5	132KV Rahim Yar Khan-I	11KV control room (T-4)	Year 2	2.2	-	2.2
6	132KV Pakpattan	Extension required to accommodate the Panel Board on addition of 4th PTF Bay	Year 2	2.2	-	2.2
7	132KV Arif Wala	Extension required to accommodate the Panel Board on addition of 4th PTF Bay	Year 2	2.2	-	2.2
8	132KV Khanewal	Extension required to accommodate the Panel Board on addition of 4th PTF Bay	Year 2	2.2	-	2.2
9	132KV Garah More	Extension required to accommodate the Panel Board on Augmentation of PTF.	Year 2	2.2	-	2.2
10	132KV Kacha Khu	Extension required to accommodate the Panel Board on Augmentation of PTF.	Year 2	2.2	-	2.2
11	132KV Harappa	Extension required to accommodate the Panel Board on Augmentation of PTF.	Year 2	2.2		2.2
SUB TOTAL (E)						**24.2**

TWIN BUNDLING OF 132KV BUS BAR

Sr. No.	Name of Grid Station	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)

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	-	4.7
11	132KV Sahiwal New	Year 2	4.7	-	4.7
SUB TOTAL (F)					**51.7**

TOTAL (A+B+C+D+E+F)	**4371.9**

LIST OF PROJECTS T/LINES & GRID STATIONS

FINANCIAL YEAR 3

1	Machiwal	New	2X40	Year 3	360	30	390
2	Lodhran-2	New	2x40	Year 3	360	30	390
3	Jatoi-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	Layyah	Aug	40	Year 3	95.64	0.21	96
16	Kacha Khu	Aug	40	Year 3	95.64	0.21	96
SUB TOTAL (A)							**2840**

132 KV T/LINES (NEW+RECONDUCTORING)

Sr. No.	Name of T/Line	Length (km)	Type	Conductor	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	F/F Machiwal (I/O of Vehari 220 KV - Burewala)	1	DC	LYNX	Year 3	13	5	17
2	F/F Lodhran - 2 (I/O 220/132 KV BWP - Lodhran)	4	DC	RAIL	Year 3	52	5	57
3	F/FJatoi-2 (Jatoi - Jatoi-2 - Alipur)	36	SDT	RAIL	Year 3	310	9	319
4	F/F P.Ghaib 132 KV (I/O 220 KV NGPS - 132 Vehari Road)	2	DC	RAIL	Year 3	32	5	37
5	F/F Shah Jamal (I/O 220 KV Muzaffargarh - 132 KV D.G.Khan)	12	DC	LYNX	Year 3	95	9	104
6	132 KV T/L KAPCO - Gujrat - Muzaffargarh	60	DC	Reconductoring with RAIL	Year 3	59	-	59
7	132 KV T/L Yazman - Maroot	66	SDT	RAIL	Year 3	544	9	553
SUB TOTAL (B)								**1146**

132 KV CAPACITOR BANKS

Sr. No.	NAME OF GRID STATION	MVAR PROPOSED	YEAR	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	Ahmed Pur East	24	Year-2	31.95	-	32
2	ARIFWALA	36	Year-2	37.27	-	37
SUB TOTAL (C)						**69**

EXTENSION OF 11 KV CONTROL HOUSE BUILDING

Sr. No.	Name of Grid Station	Remarks	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Qasim Pur Multan	Extension of existing 11KV switch room.	Year 3	2.3	-	2.3
2	132KV Chowk Munda	Extension of existing 11KV control house building	Year 3	2.3	-	2.3
3	132KV Dunyapur	Extension required to accommodate the panel board on Augmentation of PTF.	Year 3	2.3	-	2.3
4	132KV Sahiwal New	Extension required to accommodate the panel board on Augmentation of PTF.	Year 3	2.3	-	2.3
5	132KV K.P Tamewali	Extension required to accommodate the panel board on Augmentation of PTF.	Year 3	2.3	-	2.3
6	132KV Mailsi	Extension required to accommodate the panel board on Augmentation of PTF.	Year 3	2.3	-	2.3

7	66KV Nawan Kot	Extension of existing 11KV control house building	Year 3	2.3	-	2.3
8	132KV Khan Pur	11KV control room (T-1)	Year 3	2.3	-	2.3
9	132KV Rahim Yar Khan-II	11KV control room (T-2)	Year 3	2.3	-	2.3
SUB TOTAL (D)						**20.7**

TWIN BUNDLING OF 132KV BUS BAR

Sr. No.	Name of Grid Station	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (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
SUB TOTAL (E)					**30**

SUB TOTAL (A+B+C+D+E)	**4105.7**

LIST OF PROJECTS T/LINES & GRID STATIONS
FINANCIAL YEAR 4

Sr. No.	Proposed Substation	Type	Transformer Capacity (MVA)	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (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**

132 KV T/LINES (NEW+RECONDUCTORING)

Sr. No.	Name of T/Line	Length (km)	Type	Conductor	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	F/F Khanewal-2 (I/O of NGPS - Khanewal)	1	DC	LYNX	Year 4	32	5	37
2	F/F Muzaffargarh-2 (220/132 KV Muzaffargarh - Muzaffargarh-2)	5	SDT	RAIL	Year 4	66	5	71
3	F/F Vehari-2 (Vehari 220/132 Kv - Vehari-2)	8	SDT	RAIL	Year 4	93	5	98
4	F/F Kot Mithan (I/O Rjanpur - Rojhan)	6	DC	LYNX	Year 4	65	5	70
5	F/F Drawar More (132 KV Head Rajkan - 132 KV Drawar More)	24	DC	RAIL	Year 4	314	10	324
6	F/F 132 KV Kot khalifa (I/O of APE - Liaqatpur)	7	DC	LYNX	Year 4	64	5	69
7	132 KV T/L Haroonabad - Faqirwali - Faortabbas - Maroot	86	Second Circuit	2nd Line Stringing With LYNX	Year 4	164	-	164
8	I/O of Kotchutta - Guddu 132 KV T/L at Fazilpur	0.5	DC	LYNX	Year 4	22	-	22
9	I/O of Kotchutta - Guddu 132 KV T/L at Rajanpur	0.5	DC	LYNX	Year 4	22	-	22
10	I/O of Kotchutta - Guddu 132 KV T/L at Rujhan	0.5	DC	LYNX	Year 4	22	-	22
11	I/O of RYK 500/220/132 KV - 132 KV R.Y.K-1 T/L	3	DC	RAIL	Year 4	62	5	67

	at M.W.Qureshian							
12	F/F Sadiqabad-2 (In/Out Arrangement of Sadiqabad - J.D.W Power Plant T/L at 132 KV Sadiqabad-2)	2	DC	RAIL	Year 2	32	5	37
SUB TOTAL (B)								**1003**

132 KV CAPACITOR BANKS

Sr. No.	NAME OF GRID STATION	MVAR PROPOSED	YEAR	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	Alipur	36	Year-3	37.27	-	37
2	Burewala Old	24	Year-3	34.03	-	34
SUB TOTAL (C)						**71**

EXTENSION OF 11 KV CONTROL HOUSE BUILDING

Sr. No.	Name of Grid Station	Remarks	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Ludden	Extension required to accommodate the panel board on Augmentation of PTF.	Year 4	2.5	-	2.5
2	132KV Karam Pur	Extension required to accommodate the panel board on Bifurcation of 11 KV Feeders.	Year 4	2.5	-	2.5
3	132KV Jalal Pur Pir Wala	Extension with new control room for T-3 Power Transformer	Year 4	2.5	-	2.5

LIST OF PROJECTS T/LINES & GRID STATIONS

FINANCIAL YEAR 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	Sadiqabad-2	New	2x40	Year 5	408	34	442
5	Layyah-2	New	1x40	Year 5	277	28	304
6	Dajal	Ext	13	Year 5	41	6	47
7	Noor Ahmad Wali	Ext	13	Year 5	41	6	47
8	Bonga Hayat	Ext	26	Year 5	68	6	74
9	Hoota	Ext	26	Year 5	68	6	74
10	Qadirabad	Ext	26	Year 5	68	6	74
11	Chishtian	Aug	40	Year 5	108.47	0.24	109
12	Lal Sohanra	Aug	40	Year 5	108.47	0.24	109
13	Karorpacca	Aug	40	Year 5	108.47	0.24	109
14	RYK-2	Aug	40	Year 5	108.47	0.24	109
15	Mehrakhas	Aug	40	Year 5	108.47	0.24	109
16	Mehrakhas	Aug	40	Year 5	108.47	0.24	109
SUB TOTAL (A)							**3040**

4	132KV Makhdum Rashid	Extension of existing 11KV switch room.	Year 4	2.5	-	2.5
5	132KV Damar Wala	Extension of existing 11KV control house building	Year 4	2.5	-	2.5
SUB TOTAL (D)						**12.5**

TWIN BUNDLING OF 132KV BUS BAR

Sr. No.	Name of Grid Station	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Choubara	Year 4	5.3	-	5.3
2	132KV Chowk Munda	Year 4	5.3	-	5.3
3	132KV Mubarak Pur	Year 4	5.3	-	5.3
SUB TOTAL (E)					**15.9**

SUB TOTAL (A+B+C+D+E)	**4453.4**

132 KV T/LINES (NEW+RECONDUCTORING)

Sr. No.	Name of T/Line	Length (km)	Type	Conductor	Proposed Fiscal Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	F/F Kot Samaba (I/O 500KV R.Y.K - 132 KV R.Y.K)	2	DC	LYNX	Year 5	44	5	49
2	F/F Bahawalpur-2 (I/O B.U.Jadid - Bahawalpur)	0.5	DC	LYNX	Year 5	24	-	24
3	F/F Array Wahan (I/O of Karorpacca - Mailsi)	3	DC	LYNX	Year 5	30	5	35
4	F/F 132 KV Layyah-2 (I/O 132 KV Layyah-132 KV Karoor L.E T/L)	2	DC	LYNX	Year 5	44	5	49
5	132 KV T/L Lal Sohanra - QA Solar	26.6	SDT	RAIL	Year 5	262	10	272
6	132 KV T/L Lal Sohanra - Karorpacca	22	SDT	RAIL	Year 5	218	10	229
7	132 KV T/L Qasimpur - Shujabad	35	SDT	RAIL	Year 5	344	10	354
8	132 KV T/L Qasimpur - BastiMalook	35	SDT	RAIL	Year 5	344	10	354
9	F/F 132 KV Mian Channu-2 (In/Out Arrangement of Khanewal -Chak-83 T/L at 132 KV Mian Channu-2)	2	DC	LYNX	Year 3	34	5	39
SUB TOTAL (B)								**1404**

132 KV CAPACITOR BANKS

Sr. No.	NAME OF GRID STATION	MVAR PROPOSED	YEAR	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	Faqirwali	24	Year-4	36.24	-	36
2	Mailsi	48	Year-4	45.37	-	45
SUB TOTAL (C)						**82**

EXTENSION OF 11 KV CONTROL HOUSE BUILDING

Sr. No.	Name of Grid Station	Remarks	Proposed Year	LCC (MRs.)	FCC (MRs.)	Est. Total Cost (MRs.)
1	132KV Jamal Din Wali	11KV control room (T-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. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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
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
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 Qasim Bagh	Multan	320	8.1	5	2.278	16.98
11	Arif Pura	132 KV Vehari Road & 132 KV Qasim Bagh	Multan	340	5.6	3.00	2.278	16.97
12	New Mumtaz Abad	132 KV Vehari Road & 132 KV 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-I	132 KV Vehari	Vehari	380	17.1	5.50	1.161	21.00

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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	19.38
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 & 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 Shaheed	132 KV Chowk Sarwar Shaheed	M/Garh	380	124.6	28.00	1.841	16.71
34	Baghdad	132 KV Baghdad -Ul-Jadid	B/Pur	390	41.2 &	11	1.620	16.42
35	Tibba Badar	132 KV Baghdad -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

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. Loss
38	Faisal Town	220 KV Vehari & 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 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	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 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 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 [illegible]cha Khu	Khanewal	379	85.6	40.00	4.046	12.41

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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 & 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 & 132 KV K.B.Sher	M/Garh	208	124.3	13.20	0.734	12.00
61	Tube Well-1	132 KV M/Garh & 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 KV Bahawal Nagar-II	B/Nagar	260	148.0	30.10	1.386	11.44
65	Qaboola Road	132 KV Bahawal Nagar & 132 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 Fort Abbas & 132 KV Khichi	B/Nagar	150	91.7	14	0.496	10.77
71	Walhar	132 KV Faqir Wali ,132 KV 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 Khichi Wala (Connectivity)	B/Nagar	220	96.7	22	0.849	10.10
74	Wains	132 KV Faqir Wali & 132 KV 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

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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 Kehror Pacca	B/Pur	230	50.3	38.00	2.321	8.00
91	Loyal Pur	132 KV Lodhran & 132 KV Kehror Pacca	B/Pur	180	90.9	20.00	0.850	8.00
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 Bakshan Wala	B/Nagar	290	144.1	34	0.216	6.66
94	Saydan Wala	132 KV Chishtian & 66 KV Bakshan Wala	B/Nagar	66	38.7	4.00	2.246	6.30

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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 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 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

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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 J.D.WALI	RAHIM YAR KHAN	380	201.8	51.00	5.275	0.29
120	BAHAR	132kv Chowk Sarwar 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 Shaheed/C.MUNDA	MUZAFFARGARH	400	253.2	41.00	5.947	0.27
123	KOTLA	132kv 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 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 [illegible]a More	VEHARI	360	118.3	33.92	3.619	0.24

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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	BATHI	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 JAHANIA	132kv 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 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

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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	SAHIWAL	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 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 VEHARI ROAD	MULTAN	370	100.0	48.00	0.320	0.19

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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 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 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 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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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 MULTAN	MULTAN	380	13.4	12.00	2.044	0.17
207	FATEH SHAH KP	132kv Kehror Pacca	BAHAWALPUR	330	75.7	19.18	1.046	0.17
208	BURHAN PUR	132kv Kehror Pacca	BAHAWALPUR	350	109.8	21.93	1.310	0.17

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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 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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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 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 MULTAN	MULTAN	330	10.4	9.00	0.634	0.15
244	CITY-II	132kv LODHRAN	BAHAWALPUR	380	30.3	9.05	1.072	0.15
245	FATEH PUR	132kv FATEH PUR	MUZAFFARGARH	370	18.6	6.00	0.877	0.15
246	MAROOT-IST	66KV MAROOT	B/Nagar	380	48.2	9.24	0.694	0.15

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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 JAIL ROAD MULTAN	MULTAN	360	10.6	6.00	0.907	0.14
253	USMAN 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 MULTAN	MULTAN	320	11.4	6.00	0.678	0.13
258	I.ESTET-II/Multan Chemicals	132kv INDUSTRIAL ESTATE 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 MULTAN	MULTAN	320	8.5	6.00	0.580	0.13
261	AHMAD FEEDER	132kv WAPDA TOWN 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	MULTAN	390	11.8	5.00	0.887	0.12

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. Loss
266	CITY-3	132kv Burewala	VEHARI	320	40.9	6.28	0.654	0.12
267	SHALIMAR	132kv BOSAN ROAD MULTAN	MULTAN	350	9.7	5.00	0.749	0.12
268	GULZAR MAHEL	132kv BAHAWAL PUR 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 HOUSING SOCIETY	MULTAN	390	44.9	7.00	0.709	0.12
271	WAPDA TOWN	132kv WAPDA TOWN MULTAN	MULTAN	380	21.2	8.00	0.541	0.12
272	INDUSTRIAL-5	132kv INDUSTRIAL ESTATE MULTAN	MULTAN	360	2.2	2.00	0.788	0.12
273	USMAN ABAD	132kv BOSAN ROAD 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 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 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 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 BOSAN ROAD MULTAN	MULTAN	360	4.7	4.00	0.233	0.11

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. Loss
285	BALAL	132kv Vehari	VEHARI	380	20.7	6.21	0.228	0.11
286	INDUSTRIAL ESTAT	132kv INDUSTRIAL ESTATE MULTAN	MULTAN	360	7.8	3.00	0.642	0.11
287	WAHDAT COLONY	132kv BOSAN ROAD 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	CITY KOT CHUTTA	132kv KOT CHUTTA	D.G. KHAN	340	87.3	6.97	0.771	0.10
293	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	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

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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	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 JALAL PUR PIR WALA	MULTAN	260	200.2	46.00	2.103	0.07
322	CHAK-NO.28/10 R	132kv K[illegible]a Khuh	KHANEWAL	290	108.0	40.46	3.825	0.07

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. Loss
323	SHEIKH TAYYAB	132kv Chichawatni	SAHIWAL	220	93.3	31.90	3.714	0.07
324	KHANBELA	132kv 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 MULTAN	MULTAN	310	14.5	2.00	2.555	0.06
333	SAUDULLAH PUR	132kv 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

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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 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 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 KOT ADDU	MUZAFFARGARH	160	124.4	24.00	1.968	0.04

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361	ZAFFAR ABAD	132kv 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

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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 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 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	HOOTA-CITY	132kv Hoota	SAHIWAL	300	116.8	16.70	1.298	0.03
398	GYPSUM	132kv TOUNSA	D.G. KHAN	220	142.5	15.62	1.148	0.03

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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 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 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 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

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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 TAUNSA	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%

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. Loss
451	BUKHARI WAHIN	132kv Kehror Pacca	BAHAWALPUR	300	94.9	21.91	1.533	10.214%
452	SHAH MURAD	132kv Harrapa	SAHIWAL	280	62.9	21.64	2.229	13.242%
453	BASTI MALOOK	132kv 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	132kv Mailsi	VEHARI	300	62.6	11.64	0.713	4.956%

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489	TUBEWELL	132kv K.P.T Wali	BAHAWALPUR	280	53.3	11.39	0.735	5.461%
490	TIBBA SULTAN PUR 2	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	kv INDUSTRIAL ESTATE MUL	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	kv INDUSTRIAL ESTATE MUL	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	kv INDUSTRIAL ESTATE MUL	MULTAN	300	16.6	6	0.905	4.126%
515	FAZAL CLOTH MILL	2kv KHANEWAL ROAD MULT	MULTAN	280	6	6	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	5	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	132kv SADIQABAD	RAHIM YAR KHAN	280	10.6	5	0.532	2.924%

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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	132kv 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	132kv Chishtian	BAHWALNAGAR	340	122.1	42.37	4.485	23.325%

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. Loss
564	SCARP NO.9	132kv R.Y.KHAN-II	RAHIM YAR KHAN	395	170.1	41	6.373	22.751%
565	EXPRESS-2	132kv SADIQABAD	RAHIM YAR KHAN	380	195	41	5.743	20.929%
566	SCARP-D (SCARP)	132kv Bahawal Nagar	BAHWALNAGAR	390	191.2	39.11	5.915	25.003%
567	NEW TIBBI QAISRA	132kv N.A.WALI	D.G. KHAN	360	175.9	38.71	4.369	18.312%
568	AMEEN SHAHEED	132kV YAZMAN	BAHAWALPUR	175	124.5	36.74	0.003	10.766%
569	ADEEB SHAHEED	132kv Chichawatni	SAHIWAL	320	104.1	36.65	1.594	12.316%
570	OLD KACHAKHU	132kv Mianchannu	KHANEWAL	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	9.512%
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	7.809%
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	MUSHTAQ ABAD	132kv LAYYAH	MUZAFFARGARH	200	104	27	1.442	13.545%
593	SHAH GARH (SCARP	132kv R.Y.KHAN-II	RAHIM YAR KHAN	245	163.5	27	2.780	16.757%
594	WARIS SHAH	132kv Noor Pur	SAHIWAL	340	115.8	26.89	2.657	14.946%
595	BAIT SUNTRA	132kv RAJAN PUR	D.G. KHAN	160	129.3	26.78	2.262	22.030%
596	ALAM PUR	132kv Mailsi	VEHARI	380	118.4	26.51	2.433	12.524%
597	WALLHAR	132kv Fort Abbas	BAHWALNAGAR	260	182.9	26.19	1.983	11.170%
598	GHAZI GHATT	132kv GUJRAT SOUTH	MUZAFFARGARH	240	162	26	3.655	19.217%
599	PAIGAN	132kv D.G.KHAN-I	D.G. KHAN	390	180.9	25.83	2.859	13.512%
600	KOTLA MOSA KHAN	132kv A.P.EAST	BAHAWALPUR	330	174.3	25.81	1.430	9.035%
601	BADAR GARH	132kv S.S.DIN	D.G. KHAN	260	104.1	25.63	2.282	14.965%

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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	132kv JEHANIAN	KHANEWAL	390	109.6	22.87	2.096	8.226%
613	LEGHARI	66KV CHOTI	D.G. KHAN	180	120.5	22.75	1.467	13.574%
614	CHAK-NO.95	132kv Mianchannu	KHANEWAL	360	132.8	22.45	2.031	9.485%
615	KOTLA MUGHLAN	132kv JAM PUR	D.G. KHAN	150	112.3	22.14	0.854	11.300%
616	INDUS	132kv FATEH PUR	MUZAFFARGARH	240	107.4	22	1.744	11.981%
617	SHOUKAT WALA	132kv FATEH PUR	MUZAFFARGARH	190	136.2	22	1.223	11.285%
618	CHUGHATI	132kv Mian Wali Qureshian	RAHIM YAR KHAN	260	109.5	22	2.351	13.729%
619	JAND WALA	132kv Noor Ser	BAHWALNAGAR	140	107	21.36	0.904	10.619%
620	TARKU	132kv CHOBARA	MUZAFFARGARH	180	270.3	21	1.280	11.525%
621	BUDHLA SANT	132kv MAKHDOOM RASHID	MULTAN	370	132.7	21	3.272	14.803%
622	THATH GHALWAN	132kv MIRAN PUR	MULTAN	200	104.6	21	0.435	8.533%
623	KHAWAJA KHUDA YA	132kv 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	132kv Garha More	VEHARI	380	102.8	20.63	2.306	9.556%
626	NARI	132kv TOUNSA	D.G. KHAN	180	195.4	20.33	1.382	14.543%
627	RANG PUR (F.NO.5	132kv J.D.WALI	RAHIM YAR KHAN	380	100.6	20	2.763	11.290%
628	Zaki nagar	132kv SANJAR PUR	RAHIM YAR KHAN	150	158.1	20	0.513	8.575%
629	ALI TAREEN	132kv LODHRAN	BAHAWALPUR	160	105.1	19.99	0.973	12.376%
630	NASRULLAH TAREEN	132kv Dunya Pur	BAHAWALPUR	220	117	19.98	1.866	13.144%
631	SAMINA	132kv D.G.KHAN-I	D.G. KHAN	260	123	19.84	2.183	14.043%
632	CHANNAN PIR	132kv YAZMAN	BAHAWALPUR	170	126.9	19.75	1.670	12.387%
633	CHAK 81/15L	132kv Kacha Khuh	KHANEWAL	240	157.1	19.6	2.474	12.774%
634	SULTAN	132kv Shaikh Fazil	VEHARI	400	124.8	19.1	1.641	7.983%
635	BAIT MAZARI	132kv DAMMAR WALA	MUZAFFARGARH	180	107.1	19	1.170	10.906%
636	MACCAY WALA	132kv BASTI MALOOK	MULTAN	240	112.7	19	1.458	11.258%
637	Q/ROAD	132kv Bahawal Nagar	BAHWALNAGAR	390	142.9	18.55	2.188	9.928%
638	HARAND	66KV DAJAL	D.G. KHAN	120	113.6	18.46	0.813	11.818%
639	PIR ADIL	132kv S.S.DIN	D.G. KHAN	190	111.9	18.45	1.088	10.295%

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. 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[illegible] PUR	D.G. KHAN	130	171.1	10.46	0.297	5.196%
677	OLD H.PUR	132kv Hasil Pur	BAHAWALPUR	270	105.4	10.29	1.097	6.648%

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)	% age A.E. Loss
678	Q.ABAD	2/66KV JAM PUR-DAJAL ROAD	D.G. KHAN	110	102.1	10.15	0.305	4.872%
679	32-MORE	66KV HEAD RAJKAN	BAHAWALPUR	150	112.9	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	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. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)			% age A.E. Loss		Estimated Cost (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	-	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	Iqbal Nagar	132 KV Vehari Road & 132 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 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 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

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)			% age A.E. Loss		Estimated Cost (M.Rs)
							Before	After	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 & 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 Shaheed	132 KV Chowk Sarwar 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 -Ul-Jadid	B/Pur	390	41.2 &	11	1.620	1.507	0.113	16.42	-	10,360,062
35	Tibba Badar	132 KV Baghdad -Ul-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 & 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 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	B/Pur	380	86.9	26.00	2.625	1.031	1.594	13.67	2.3	39,118,311
48	Mahmood Kot	132 KV Khanewal Road & 132 KV Buch Villas	Multan	390	128.5	40.00	2.576	0.521	2.055	13.28	5.95	13,062,158

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)			%age A.E. Loss		Estimated Cost (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 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 & 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 & 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 & 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	Jall Wala	132 KV Bahawal Nagar & 132 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 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 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 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 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 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	8.84	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 Kehror 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 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 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 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	Vehari	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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							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
100	Machi Wal	132 KV Azeem Abad	Vehari	391	70.9	40	3.544	0.677	2.867	4.97	4.42	24,402,488
101	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
102	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
103	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
104	Head Muhammad 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
105	Shouque Elahi	132 KV Chishtian	B/Nagar	322	122.1	40	2.916	0.637	2.279	4.35	3.55	21,780,202
106	Gujiani	132 KV Chishtian	B/Nagar	220	111.2	24.00	2.403	0.673	1.730	4.20	2.22	21,780,202
107	Vehniwal	132 KV Khanewal & 132 KV Garha More	Khanewal	330	139.2	34.00	1.925	0.802	1.123	4.00	2.00	39,144,656
108	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
109	Piran Ghaib	132 KV P.G.H.S	Multan	395	49.3	12	1.039	0.878	0.161	3.84	-	9,801,477
110	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
111	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
112	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
113	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
114	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
115	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
116	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
117	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
118	GANJ SHAKAR	132kv Pak Pattan	SAHIWAL	380	62.3	43.90	5.104	1.124	3.980	0.32	0.10	35,602,109
119	RAJAN PUR KALAN	132kv J.D.WALI	RAHIM YAR KHAN	380	201.8	51.00	5.275	1.315	3.960	0.29	0.14	27,165,208
120	BAHAR	132kv Chowk Sarwar Shaheed/C.MUNDA	MUZAFFARGARH	360	234.2	40.00	6.364	1.408	4.956	0.29	0.14	23,652,656
121	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
122	AZIZ CHOWK	132kv Chowk Sarwar Shaheed/C.MUNDA	MUZAFFARGARH	400	253.2	41.00	5.947	1.993	3.954	0.27	0.12	18,605,309
123	KOTLA	132kv JALAL PUR PIR WALA	MULTAN	380	175.9	46.00	5.790	1.825	3.965	0.26	0.11	21,710,508

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							Before	After	Saving	Exist	Rem.	
124	DOGAR	132kv MAKHDOOM RASHID	MULTAN	340	110.4	48.00	3.504	2.144	1.360	0.26	0.11	32,563,619
125	SHER SHAH	132kv INDUSTRIAL ESTATE MULTAN	MULTAN	350	158.2	39.00	5.287	1.300	3.987	0.25	0.10	15,812,252
126	BASEERA	132kv GUJRAT SOUTH	MUZAFFARGARH	360	146.6	35.00	5.060	1.100	3.960	0.25	0.10	36,251,254
127	BABA MOHSIN SHAH	132kv Hoota	SAHIWAL	390	100.8	42.37	3.993	2.343	1.650	0.25	0.10	28,935,610
128	SATLUJ	132kv LODHRAN	BAHAWALPUR	360	97.1	47.24	2.871	1.816	1.055	0.25	0.10	23,225,510
129	ZAHIR PIR	132kv KHAN PUR	RAHIM YAR KHAN	360	85.5	52.00	2.720	1.464	1.256	0.25	0.10	25,584,915
130	CHOPPER HATTA	132kv Makhdoom Pur	KHANEWAL	320	135.2	34.01	3.008	1.947	1.061	0.25	0.10	21,203,205
131	SCARP-FW (SCARP	132kv Bahawal Nagar	B/Nagar	340	222.2	40.75	4.866	1.756	3.110	0.25	0.10	25,806,255
132	SHER SHAH	132kv Garha More	VEHARI	360	118.3	33.92	3.619	2.564	1.055	0.24	0.09	24,555,124
133	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	25,498,365
134	AL-KARAM	132kv SHUJABAD	MULTAN	360	170.3	40.00	3.458	1.894	1.564	0.24	0.09	15,368,551
135	ZIA	66KV MAROOT	B/Nagar	390	119.6	43.11	4.126	2.121	2.005	0.24	0.09	29,230,140
136	KOT ABBAS SHAHEE	132KV KHANEWAL	KHANEWAL	350	139.6	43.25	3.337	1.832	1.505	0.24	0.09	25,648,274
137	SHER KHAN	132kv KABIR WALA	KHANEWAL	320	169.2	38.10	3.072	2.018	1.054	0.23	0.08	17,569,274
138	MULTANI WALA	132kv JEHANIAN	KHANEWAL	360	133.3	35.26	3.840	2.865	0.975	0.23	0.08	91,569,874
139	ISLAM PUR	132kv LAAR	MULTAN	360	100.2	31.00	3.748	2.498	1.250	0.23	0.08	35,666,984
140	BATHI	132kv N.A.WALI	D.G. KHAN	360	85.3	40.17	3.019	1.018	2.001	0.23	0.08	32,515,441
141	RAJA FIDA HUSSAI	132kv Qaboola	SAHIWAL	380	90.9	31.90	3.111	1.486	1.625	0.23	0.08	36,308,709
142	AL-FAZAL	132kv SHUJABAD	MULTAN	390	122.7	37.00	5.620	1.720	3.900	0.23	0.08	22,729,312
143	NAWAB LIAQAT ALI	132kv SHUJABAD	MULTAN	400	98.6	37.00	2.880	0.960	1.920	0.23	0.08	16,593,064
144	LAL KAMAL	132kv LODHRAN	BAHAWALPUR	340	108.8	33.08	3.439	2.384	1.055	0.23	0.08	25,151,515
145	HUSSAIN ABAD	132kv Pak Pattan	SAHIWAL	380	66.9	33.88	3.921	2.896	1.025	0.23	0.08	34,101,305
146	SIKANDAR CHOWK	132kv Bunga Hayat	SAHIWAL	360	79.1	34.74	2.934	1.929	1.005	0.22	0.07	16,515,158
147	MAKHDOOM JAHANIA	132kv JALAL PUR PIR WALA	MULTAN	360	128.4	34.00	3.489	1.931	1.558	0.22	0.07	22,458,872
148	NEW KOT QAISRANI	132kv TOUNSA	D.G. KHAN	350	88.4	36.43	3.335	2.084	1.251	0.22	0.07	31,616,161

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							Before	After	Saving	Exist	Rem.	
149	MEHMOOD KOT	132kv WAPDA TOWN 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	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
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
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
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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174	NEW GARRAY WALA	132kv WAPDA TOWN 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 J.D.WALI	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	T.WELL	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	132kv JALAL PUR PIR WALA	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	320	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	RA[illegible]YAR KHAN	210	156.2	32.00	5.491	[illegible].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

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)			% age A.E. Loss		Estimated Cost (M.Rs)
							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
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
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 MULTAN	MULTAN	380	13.4	12.00	2.044	0.824	1.220	0.17	0.08	22,939,875
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
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	PEER HASAN SAWAL	132kv JAIL ROAD MULTAN	MULTAN	340	34.0	13.00	1.715	0.965	0.750	0.17	0.08	32,587,425
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
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
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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							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 THINGI	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 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	0.026	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 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	BAHAWALPUR	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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							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	30,502,548
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	15,215,515
251	TIBBA SULTAN	132kv JEHANIAN	VEHARI	390	82.0	10.20	1.020	0.770	0.250	0.14	0.08	22,596,814
252	OLD SHUJAABAD RO	132kv JAIL ROAD MULTAN	MULTAN	360	10.6	6.00	0.907	0.697	0.210	0.14	0.08	29,536,642
253	USMAN E GHANI RO	132kv VEHARI ROAD	MULTAN	390	10.8	6.00	0.954	0.352	0.602	0.13	0.07	25,874,651
254	T.P.S/TALIRI	132kv M/GARH	MUZAFFARGARH	320	23.9	7.00	0.883	0.633	0.250	0.13	0.07	30,552,540
255	ANSAR COLONY	132kv VEHARI ROAD	MULTAN	380	7.9	6.00	1.071	0.591	0.480	0.13	0.07	35,965,145
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	20,055,514
257	EXPRESS	132kv BOSAN ROAD MULTAN	MULTAN	320	11.4	6.00	0.678	0.448	0.230	0.13	0.07	17,282,552
258	I.ESTET-II/Multan Chemicals	132kv INDUSTRIAL ESTATE MULTAN	MULTAN	390	11.4	5.00	1.057	0.688	0.369	0.13	0.07	24,561,414
259	GHALA MANDI	132kv QASIM PUR MULTAN	MULTAN	330	10.8	7.00	0.774	0.459	0.315	0.13	0.07	32,566,255
260	KHAN VILLAGE ROA	132kv BOSAN ROAD MULTAN	MULTAN	320	8.5	6.00	0.580	0.455	0.125	0.13	0.07	36,428,124
261	AHMAD FEEDER	132kv WAPDA TOWN MULTAN	MULTAN	390	19.1	6.00	1.020	0.472	0.548	0.13	0.07	25,545,664
262	PIR ISMAIL	132kv QASIM PUR MULTAN	MULTAN	390	33.6	9.00	0.646	0.571	0.075	0.13	0.07	29,314,545
263	CITY LODHRAN	132kv LODHRAN	BAHAWALPUR	380	26.9	8.25	0.821	0.577	0.244	0.13	0.07	26,545,856
264	SURAJ KUND ROAD	132kv QASIM PUR MULTAN	MULTAN	370	14.4	7.00	0.785	0.543	0.242	0.13	0.07	32,555,454
265	GHAFOOR	132kv WAPDA TOWN MULTAN	MULTAN	390	11.8	5.00	0.887	0.641	0.246	0.12	0.06	29,871,256
266	CITY-3	132kv Burewala	VEHARI	320	40.9	6.28	0.654	0.423	0.231	0.12	0.06	22,366,154
267	SHALIMAR	132kv BOSAN ROAD MULTAN	MULTAN	350	9.7	5.00	0.749	0.338	0.411	0.12	0.06	34,652,558
268	GULZAR MAHEL	132kv BAHAWAL PUR CANTT	BAHAWALPUR	380	14.9	8.16	0.720	0.455	0.265	0.12	0.06	28,956,354
269	LUDDEN	132kv Ludden	VEHARI	320	93.3	5.59	0.662	0.603	0.059	0.12	0.06	42,556,644
270	JAHANGIR ABAD	132kv PUNJAB GOVT HOUSING SOCIETY	MULTAN	390	44.9	7.00	0.709	0.355	0.354	0.12	0.06	19,254,136
271	WAPDA TOWN	132kv WAPDA TOWN MULTAN	MULTAN	380	21.2	8.00	0.541	0.473	0.068	0.12	0.06	21,551,558
272	INDUSTRIAL-5	132kv INDUSTRIAL ESTATE MULTAN	MULTAN	360	2.2	2.00	0.788	0.719	0.069	0.12	0.06	13,255,615
273	USMAN ABAD	132kv BOSAN ROAD MULTAN	MULTAN	370	9.0	5.00	0.548	0.338	0.210	0.12	0.06	21,554,365

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							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 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 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 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 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 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 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		MULTAN	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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							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	6,558,585
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 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

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)			% age A.E. Loss		Estimated Cost (M.Rs)
							Before	After	Saving	Exist	Rem.	
324	KHANBELA	132kv JALAL PUR PIR WALA	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	1.425	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	MULTAN	310	14.5	2.00	2.555	1.530	1.025	0.06	0.04	42,548,594
333	SAUDULLAH PUR	132kv JALAL PUR PIR WALA	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 MAAN KOT	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	[illegible]Nagar	180	115.9	26.74	2.018	[illegible]993	1.025	0.05	0.04	19,925,582
348	KALANCH WALA	220KV, Mari Sh. Shajra	BAHAWALPUR	200	145.1	32.39	2.477	1.552	0.925	0.05	0.04	21,525,525

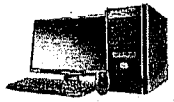
Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)			% age A.E. Loss		Estimated Cost (M.Rs)
							Before	After	Saving	Exist	Rem.	
349	GHAZI	132kv NAWAZABAD	RAHIM YAR KHAN	300	58.8	28.00	2.442	1.317	1.125	0.05	0.04	43,255,455
350	RAFIQ ABAD	132kv 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 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 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 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

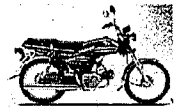
Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)			% age A.E. Loss		Estimated Cost (M.Rs)
							Before	After	Saving	Exist	Rem.	
374	FIRDOUS	132kv Chichawatni	SAHIWAL	220	65.4	25.04	2.375	0.714	1.661	0.04	0.03	39,212,585
375	Islami Colony	132kV BAHAWAL PUR	BAHAWALPUR	280	18.5	18.90	3.732	1.807	1.926	0.04	0.03	22,585,561
376	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
377	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
378	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
379	PIPLY	220KV, Vehari	VEHARI	165	130.2	18.20	2.536	1.481	1.055	0.04	0.03	16,256,581
380	HAZOOR ABAD	132kv Chichawatni	SAHIWAL	300	76.9	28.47	2.740	1.690	1.050	0.04	0.03	55,446,442
381	CHAK-29	132kv Kacha Khuh	KHANEWAL	280	112.3	23.63	2.399	0.745	1.654	0.04	0.03	425,552,544
382	BAKANI	132kv DAMMAR WALA	MUZAFFARGARH	160	104.5	21.00	1.531	0.717	0.815	0.04	0.03	19,812,581
383	KHOKHAR	132kv INDUSTRIAL ESTATE MULTAN	MULTAN	220	90.6	23.00	1.770	1.145	0.625	0.04	0.03	32,251,561
384	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
385	TAKHT MEHAL	132kv Noor Ser	BAHWALNAGAR	200	228.1	18.36	1.935	1.483	0.452	0.04	0.03	14,336,961
386	MUHAMMAD PUR	66KV UCH SHARIF/ Kot Khalifa	BAHAWALPUR	280	195.8	21.31	2.917	1.288	1.629	0.04	0.03	19,825,544
387	BUKHARA	132kv JAM PUR	D.G. KHAN	180	220.2	14.37	0.457	0.207	0.250	0.04	0.03	22,625,541
388	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
389	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
390	SHIKAR PUR	132kv RAJAN PUR	D.G. KHAN	280	176.1	24.29	1.788	1.204	0.584	0.03	0.02	32,515,551
391	MAHMOOD KOT	132kv GUJRAT SOUTH	MUZAFFARGARH	190	148.7	19.00	1.323	0.361	0.963	0.03	0.02	24,315,321
392	CITY FEEDER	132kv Arif Wala	SAHIWAL	310	10.3	2.54	0.423	0.173	0.250	0.03	0.02	12,055,425
393	WARANN SERAN	66KV K.L.ESSAN	MUZAFFARGARH	270	211.8	25.00	2.912	1.646	1.266	0.03	0.02	15,364,561
394	MASOOM SHAH	132kv Pak Pattan	SAHIWAL	310	78.2	21.55	1.946	0.891	1.055	0.03	0.02	36,625,564
395	K.D.QURESHI	132kv GUJRAT SOUTH	MUZAFFARGARH	280	124.7	18.00	2.237	1.187	1.050	0.03	0.02	143,658,512
396	QATALL PUR	132kv Head Sidhnai	KHANEWAL	310	153.1	12.64	1.948	1.553	0.395	0.03	0.02	25,515,578
397	HOOTA-CITY	132kv Hoota	SAHIWAL	300	116.8	16.70	1.298	0.848	0.450	0.03	0.02	35,414,889

Sr. No.	11KV Feeder / Proposal	Grid Station	Circle	Max. Load Recorded	Length (K.M)	% age V.D	A.E. Loss (MKWH)			% age A.E. Loss		Estimated Cost (M.Rs)
							Before	After	Saving	Exist	Rem.	
398	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
401	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 MULTAN	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
405	EID GAH	132kv LAYYAH	MUZAFFARGARH	290	17.6	9.00	0.861	0.651	0.210	0.03	0.02	19,263,251
406	LIAQAT SHAHEED	132kv Vehari	VEHARI	280	79.4	23.22	1.928	1.300	0.628	0.03	0.02	25,582,364
407	HALLA	132kv Kameer	SAHIWAL	270	48.8	11.33	0.743	0.346	0.397	0.03	0.02	14,981,514
408	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
409	NEW HIGH COURT	132kv SURAJ MIANI MULTAN	MULTAN	250	14.8	7.00	0.092	0.052	0.040	0.02	0.02	5,665,136
410	SHAH PUR	66KV K.L.ESSAN	MUZAFFARGARH	210	214.0	18.00	2.784	1.628	1.156	0.02	0.02	32,451,514
411	PIR SAWAG	66KV K.L.ESSAN	MUZAFFARGARH	200	179.3	16.00	2.267	0.717	1.550	0.02	0.02	16,558,181
412	Lal Shah	132 KV Qaboola	VEHARI	380	111.7	36.22	4.084	1.103	2.981	0.02	0.01	29,659,871
413	Noor Pur	132KV Noor Pur	SAHIWAL	380	49.0	33.00	2.321	1.063	1.258	0.02	0.01	21,224,910
414	Mehdi Khan	132KV Qaboola	VEHARI	380	174.6	32.06	5.020	2.380	2.640	0.02	0.01	26,987,415
415	Shanti Nagar	132KV Khanewal	KHANEWAL	380	61.6	23.34	1.732	0.632	1.100	0.02	0.01	26,694,555
416	Bhadar Pur	132KV J.P.P.Wala	MULTAN	380	98.2	9.71	0.884	0.224	0.660	0.02	0.01	24,764,852
417	Badla Sant	132KV Makhdoom Rashid	MULTAN	370	119.5	34.06	3.299	2.274	1.025	0.02	0.01	25,151,146
418	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
419	Nadir Wali	132 KV Ludden	VEHARI	370	132.7	21.00	3.272	1.647	1.625	0.02	0.01	22,125,154
420	Noor Garh	132 KV Chak 211/W.B	VEHARI	340	62.9	25.45	2.466	1.361	1.105	0.01	0.01	21,651,581
421	Ismail Pur	132KV Uch Sharif	BAHAWALPUR	320	126.9	46.91	8.283	1.633	6.650	0.01	0.01	25,585,558
422	City-III	132 KV jehanian	KHANEWAL	260	61.6	23.11	0.158	0.089	0.069			5,655,642

ANNEXURE-10

MOBILE PHONE METER READING PROJECT





Scope and Cost
MEPCO Wide Expansion of Mobile Phones Meter Reading Project

SCOPE:

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
	Total Mobile Phones already procured:	**2073**
	Net Mobile Phones requirement:	1084

B **Other Equipment**

18	Desktops (PCs) + 50 Spares	231
19	Printers + 50 Spares	231
20	DSL Connectivity + 50 spares	50
21	Furniture & Acessories	50
22	Split AC + 50 spares	50

D **Mobility - Motor Bikes**

29	Total Requirement:	2500
30	Procurement Staggered Year Wise - for Distribution to Subdivision with Largest Areas and so on. Procurement in FY 2022 (40%)	1000
31	Procurement in FY 2023 (60%)	1500

COSTS:

A **Capital Expenditure Year Wise (in Rs.)**

	Description	units	cost/Unit	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	Total
	CAPEX			(Under Warranty)	Procured Remianing				
1	Mobile Phones	1,084	26,000	-	28,184,000	53,898,000		-	82,082,000
Other Equipment and Transportation:									
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 Connectivity	50	18,000	180,000	180,000	180,000	180,000	180,000	900,000
5	Furniture & 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 Capex Required:				6,324,000	34,508,000	130,222,000	111,324,000	6,324,000	288,702,000
Total Capex Required (in MRs.)				6	35	130	111	6	289

B Operational Expenditure Year Wise (In Rs.)

#	Description	units	Annual Opex/ Unit	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	Total
	Opex								
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 Transportation:									
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 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 Opex Required:				**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

ANNEXURE-11

AUTOMATED METERING INFRASTRUCTURE

MEPCO 05-YEARS FUTURE PLAN FOR INSTALLATION OF AMI METERS

05-Years Implementation Plan

Tariff	Total 3-phase consumer in MEPCO			Total AMI meters installed in MEPCO			No. of Non AMI 3Phase consumers in all MEPCO to be shifted to AMI			FY 2020-2021					FY 2021-2022					FY 2022-2023					FY 2023-2024					FY 2024-2025	Total Amount (In million PKR)
	LT/HT	WC	Total	LT/HT	WC	Total	LT/HT	WC	Total	LT/HT	WC	Appx. Per meter Rate LT/HT (PKR)	Appx. Per meter Rate WC (PKR)	Amount (In Mill PKR)	LT/HT	WC	Appx. Per meter Rate LT/HT (PKR)	Appx. Per meter Rate WC (PKR)	Amount (In Mill PKR)	LT/HT	WC	Appx. Per meter Rate LT/HT (PKR)	Appx. Per meter Rate WC (PKR)	Amount (In Mill PKR)	LT/HT	WC	Appx. Per meter Rate LT/HT (PKR)	Appx. Per meter Rate WC (PKR)	Amount (In Mill PKR)	Amount (In Mill PKR)	
Agricultural	140	85169	85309	52	26660	26712	88	58,509	58,597	3	27034	9,990	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	20,124	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	-	-	88	890	9,990	8,995	8.88	-	-	-	-	-	-	-	-	-		-	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:

1 The plan is devised to transform AMI meters from top to bottom revenue bases customers.
2 Price of LT / HT meters i.e. PKR 9990/- and WC meters i.e. PKR 8995/- are the lowest quoated prices taken from recent tender opened in PESCO in 09/2020
3 USAID-SEP provided 2354 WC & 929 LT/HT meters during 2020-21

ANNEXURE-12

MEPCO TECHNOLOGY ROAD MAP

(DATA CENTRE)

MEPCO Technology Roadmap - 5 years TCO																
Sr.	Future Projects	F.Y 2020-21		F.Y 2021-22		F.Y 2022-23		F.Y 2023-24		F.Y 2024-25		Total	
1	Enterprise Asset Management (Processor Based)	---	---	$ 1,000,000	$ 200,000	$ 220,000	$ 150,000	$ 220,000	$ 150,000	$ 220,000	$ -	$ 1,660,000	$ 500,000
2	Enterprise GIS	---	---			$ 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 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	$ 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)	---	---	$ 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**	

ANNEXURE-13

CUSTOMER SERVICES CENTRE

Scope and Cost

MEPCO Wide Expansion of Customers Service Centres (CSCs)

1	Total CSCs established Ending 2019-20	267
2	Net number of CSCs to be revamped (subdivisions+Divs+Circles+Ros) FY 2021-2025	267
Detailed 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 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

A Capital Expenditure Year Wise (In Rs.)

#	Description	units	Cost/ Unit	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	Total
1	Revamp (Paint job) of the the CSC rooms in numbers	**267**	**150,000**	34,843,500	-	-	-	-	**34,843,500**
2	Provision of Furniture and Fixtures Units required	**267**	**108,000**	25,087,320	-	-	-	-	**25,087,320**
3	Desktops with 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 Capex Required:				**86,644,170**	-	-	-	-	**86,644,170**
Total Cpex Required: (in MRs.)				87	-	-	-	-	87

B Operational Expenditure Year Wise (In Rs.)

#	Description	units	Annual Opex/ Unit	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	Total
	Opex								
1	Desktops with 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 Opex Required:			**11,846,790**	**11,901,258**	**12,391,470**	**12,936,150**	**13,617,000**	**62,692,668**
	Total Opex Required: (in MRs.)			12	12	12	13	14	63

ANNEXURE-14

MONITORING & SURVEILLANCE

Scope and Cost
MEPCO Wide Expansion of Survillance for Anti-theft

SCOPE:

A Scope - Survillance (Anti-theft-activity)

Scope

1	Toyota Hilux one per division (Survillance Team already exist for AMRs theft control and other meters theft control)	37
2	Toyota Hilux (Single Cabin with Hood) (Anti-theft Cell) under Commercial Dir.	1
3	TOOL (Ladder, tool and plants, power analyzer, clip on meters) in Units	38
4	Mobile Phones	38

COSTS:

A Capital Expenditure Year Wise (In Rs.)

	Description	Units	Cost/ Unit	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	Total
	CAPEX								
1	Toyota Hilux for Divisions	37	2,200,000	22,000,000	17,600,000	15,400,000	13,200,000	13,200,000	81,400,000
1	Toyota Hilux 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 Capex Required:				25,080,000	18,240,000	15,960,000	13,680,000	13,680,000	86,640,000
Total Capex Required (in MRs.)				25	18	16	14	14	87

B Operational Expenditure Year Wise (In Rs.)

	Description	units	Annual Opex/ Unit	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	Total
	Opex								
1	Hilux POL and 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 Opex Required:				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

ANNEXURE-15

ERP (SAP IMPLEMENTATION)

Multan Electric Power Company (MEPCO)
Five Year Plan
New Modules for ERP-SAP

Description	Estimated Cost (Rs. in Million)	Estimated Completion 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

ANNEXURE-16

HR DEVELOPMENT PLAN

TRAINING & DEVELOPMENT

FIVE YEARS BUSINESS PLAN TRAINING & DEVELOPMENT OF MEPCO EMPLOYEES

Category		2020-2021		2021-2022		2022-2023		2023-2024		2024-2025	
		No. of Participants	Financial Implication (Estimated)	No. of Participants (Projected)	Financial Implication (Estimated)	No. of Participants (Projected)	Financial Implication (Estimated)	No. of Participants (Projected)	Financial Implication (Estimated)	No. of Participants (Projected)	Financial Implication (Estimated)
Officers	BPS-18/19	22	13794000	30	18810000	35	21945000	36	22572000	38	23826000.
	BPS-16/17	40	12986383	50	16232978.72	55	17856276.6	58	18830255	60	19479574.5
Officials	BPS-05 to 15 (RTC)	520	32170840	670	41450890	700	43306900	720	44544240	725	44853575
	BPS-05 to 15 (CTCs)	1450	20063650	1680	23246160	1700	23522900	1750	24214750	1770	24491490
Total		**2032**	**79014873**	**2430**	**99740028.72**	**2490**	**106631076.6**	**2564**	**110161245**	**2593**	**112650639**

Total (in MRs.)	79	100	107	110	113

IMPROVING EXISTING OFFICES

IMPROVING THE WORKING ENVIRONMENT OF EXCISING OFFICES

A: Scope and Cost.

CAPEX

(In Million)

Improving Existing Offices:	Number of Offices	Financial Year					Total
		2020-21	2021-22	2022-23	2023-24	2024-25	
R&M General Plants (Purchase, Repair, Maintenance of office equipment)	391	27.00	32.00	38.00	45.00	54.00	196.00
Communication (Landline, Mobile Phone, Internet and courier etc.)	-do-	79.00	86.00	94.00	104.00	114.00	477.00
Office Supplies (Stationary & Consumable items)	-do-	310.00	361.00	430.00	511.00	610.00	2222.00
Computer Services (Computer, Printer, Copier etc.)	-do-	283.00	312.00	343.00	377.00	415.00	1730.00
Total (in MRs.)		**699**	**791**	**905**	**1037**	**1193**	**4625**

C: Scope and Cost.

OPEX:

(In Million)

Improving Existing Offices:	Number of Offices	Financial Year					Total
		2020-21	2021-22	2022-23	2023-24	2024-25	
Employees Benefit (Medical, Free Supply, Sports, Education, Marriage Grant, Award, Funeral Charges etc.)	390	1389.00	1401.00	1587.00	1791.00	2020.00	8188.00
Total (in MRs.)		**1389**	**1401**	**1587**	**1791**	**2020**	**81**

IMPROVING TRANSPORTATION

Improving the Transportation in MEPCO

A:Scope and Cost:

Capex

Description of Items	FY 2020-21			FY 2021-22			FY 2022-23			FY 2023-24			FY 2024-25		
	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			-			-			-			-	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
Coaster			-			-			-	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**			**373**			**377**

Improving the Transportation in MEPCO

Opex:

Description of Items	FY 2020-21			FY 2021-22			FY 2022-23			FY 2023-24			FY 2024-25		
	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													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	12,500,000	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**			**159**

FINANCIAL IMPLICATION OF STAFFING PLAN

MULTAN ELECTRIC POWER COMPANY LTD., MULTAN

FINANCIAL IMPLICATION ON RECRUITMENT PLAN OF MEPCO

Sr. No.	Nomenclature of the Post	BPS	F.Y 2020-21			F.Y 2021-22			F.Y 2022-23			F.Y 2023-24			F.Y 2024-25		
			No. of posts	Fin. Impact (Salery+Free Supply) for One post Per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per 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 & Labour)	19	-	1,875,312	-	1	1,875,312	1,875,312	-	1,961,004	-	-	2,089,542	-	-	2,175,234	-
4	Director (Legal / Contract)	19	1	1,875,312	1,875,312	-	1,875,312	-	-	1,961,004	-	-	2,089,542	-	-	2,175,234	-
5	Manager (Internal Audit)	19	-	1,875,312	-	1	1,875,312	1,875,312	-	1,961,004	-	-	2,089,542	-	-	2,175,234	-
6	Manager (Planning & 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	-
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 & Banking)	18	-	1,339,308	-	1	1,339,308	1,339,308	-	1,399,104	-	-	1,488,798	-	-	1,548,594	-
10	DM (Legal / Contract)	18	1	1,339,308	1,339,308	-	1,339,308	-	-	1,399,104	-	-	1,488,798	-	-	1,548,594	-
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 Forecasting)	18	1	1,339,308	1,339,308	-	1,339,308	-	-	1,399,104	-	-	1,488,798	-	-	1,548,594	-
13	AM (Transmission Planning)	17	1	1,089,462	1,089,462	-	1,089,462	-	-	1,136,946	-	-	1,208,172	-	-	1,255,656	-
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	20	1,255,656	25,113,120
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
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

Sr. No.	Nomenclature of the Post	BPS	F.Y 2020-21			F.Y 2021-22			F.Y 2022-23			F.Y 2023-24			F.Y 2024-25		
			No. of posts	Fin. Impact (Salery+Free Supply) for One post Per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per 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/ 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 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 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 & 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	-	1,089,462	-	1	1,089,462	1,089,462	-	1,136,946	-	-	1,208,172	-	-	1,255,656	-
30	A.M (Field Operations / CIS Support)	17	-	1,089,462	-	1	1,089,462	1,089,462	-	1,136,946	-	-	1,208,172	-	-	1,255,656	-
31	A.M (SAP) HCM	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 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 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 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 Administrator (Core)	17	-	1,089,462	-	1	1,089,462	1,089,462	-	1,136,946	-	-	1,208,172	-	-	1,255,656	-

Sr. No.	Nomenclature of the Post	BPS	F.Y 2020-21			F.Y 2021-22			F.Y 2022-23			F.Y 2023-24			F.Y 2024-25		
			No. of posts	Fin. Impact (Salery+Free Supply) for One post Per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year
39	A.M (Chemcial) under 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/ APS	16	-	534,612	-	3	534,612	1,603,836	3	557,304	1,671,912	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 (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 Operator/DEO	15	-	447,438	-	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 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 (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-I	15	-	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/ 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	-	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

Sr. No.	Nomenclature of the Post	BPS	F.Y 2020-21			F.Y 2021-22			F.Y 2022-23			F.Y 2023-24			F.Y 2024-25		
			No. of posts	Fin. Impact (Salery+Free Supply) for One post Per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per 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 Assistant	14	-	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	Imam Masjid	12	-	379,752	-	1	379,752	379,752	-	395,736	-	-	419,712	-	-	435,696	-
67	Graphic Designer	11	-	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	414,816	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-I	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.A	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

Sr. No.	Nomenclature of the Post	BPS	F.Y 2020-21			F.Y 2021-22			F.Y 2022-23			F.Y 2023-24			F.Y 2024-25		
			No. of posts	Fin. Impact (Salery+Free Supply) for One post Per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per 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 (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	6	-	297,468	-	800	297,468	237,974,400	300	310,212	93,063,600	129	329,328	42,483,312	100	342,072	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	995,562
90	Tyre Shop Operator	5	-	288,762	-	2	288,762	577,524	-	301,074	-	-	319,542	-	-	331,854	-
91	Moazzan - Khadim - 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

Sr. No.	Nomenclature of the Post	BPS	F.Y 2020-21			F.Y 2021-22			F.Y 2022-23			F.Y 2023-24			F.Y 2024-25		
			No. of posts	Fin. Impact (Salery+Free Supply) for One post Per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per Year	No. of Posts	Fin. Impact (Salery+Free Supply) for One post per Annum	Fin. Impact (Salery+Free Supply) for all post per 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 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	2	-	258,426	-	-	258,426	-	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 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

ANNEXURE-17

COMMUNICATION IMPROVEMENT PLAN

Internal and External Communication

Description	Units	Cost/ Unit	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
A: Internal Communications							
CAPEX							
Physical Infrastructure for Internal Communication							
Mail Server & Other Equipment for Email Communication	1	5,000,000	5,000,000	-		-	-
Scanners to support internal email communication	369	3,000	1,107,000	-		-	-
Smart Phones for Officers for Internal Communications	549	20,000	-	-	10,980,000	-	-
TOTAL			**6,107,000**	0	**10,980,000**	**0**	**0**
OPEX							
Annual Operating Expense for Mobile Phones	549	24,000	-	-	13,176,000	13,834,800	14526540
Annual Employee Recognization Event	1	700,000	700,000	735,000	771,750	810,338	850,854
TOTAL			**700,000**	**735,000**	**13,947,750**	**14,645,138**	**15,377,394**

B: External Communications & Outreach

CAPEX	**Units**	**Cost/ Unit**	**FY 2020-21**	**FY 2021-22**	**FY 2022-23**	**FY 2023-24**	**FY 2024-25**
Toyota Hiace for Mobility of Communication Staff	1	3,500,000	3,500,000				
OPEX	**Units**	**Cost/ Unit**	**FY 2020-21**	**FY 2021-22**	**FY 2022-23**	**FY 2023-24**	**FY 2024-25**
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**

Public Outreach & Awareness Programmes							
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**
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
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**
Total Capex Communications (Internal + External)	**(in MRs.)**		**10**	**0**	**11**	**0**	**0**
Total Opex (Internal + External) - Communications	**(in MRs.)**		**29**	**30**	**45**	**48**	**50**

ANNEXURE-18

LINEMAN TRAINING & SAFETY PLAN

A: LM SAFETY SCOPE AND COST

	SCOPE	
	As of FY 2020-21	
	Total LM (LM1&2) at MEPCO Sanctioned	3690
	Total LM (LM1&2) at MEPCO Working	3284
	Total LM (LM1&2) at MEPCO Vacant	406
	Total ALM at MEPCO Sanctioned	5657
	Total ALM at MEPCO Working	3886
	Total ALM at MEPCO Vacant	1771
	Total number of subdivisions in MEPCO	231
	New Subdivisions that will be added (6 per year in next 5 years)	30
	Total number of Subdivisions:	231

a-1	Transportation	No. of Items		Unit Price		Total Price
	Bucket Mounted Trucks 01 per subdivision:	231	PKR	8,000,000	PKR	1,848,000,000

a-2	Communication Devices	No. of Items	Unit Price		Total Price
	Mobile Phones for Complaint Handling LM Team field Teams (01 per subdivision)	231	8000	PKR	1,848,000

3.3 Tools

Sr. no	Description	Unit	TOTAL Requirement FY 2020-2021	Rate Per Unit	TOTAL EXPENSE FY 2020-21	TOTAL Requirement FY 2021-2022	Rate Per Unit	TOTAL EXPENSE FY 2021-22	TOTAL Requirement FY 2022-2023	Rate Per Unit	TOTAL EXPENSE FY 2022-23	TOTAL Requirement FY 2023-2024	Rate Per Unit	TOTAL EXPENSE FY 2023-24	TOTAL Requirement FY 2024-2025	Rate Per Unit	TOTAL EXPENSE FY 2024-25
1	Insulated Rubber Gloves	Pairs	13692	3490	47785080	13692	3839	52563588	13692	4223	57821316	13692	4645	63599340	13692	5110	69966120
2	Protective Leather Gloves	Pairs	13692	175	2396100	13692	192	2628864	13692	211	2889012	13692	232	3176544	13692	255	3491460
3	Working Gloves	Pairs	15220	123	1872060	15220	135	2054700	15220	148	2252560	15220	163	2480860	15220	179	2724380
4	Safety Hat	No.	7610	487	3706070	7610	536	4078960	7610	590	4489900	7610	649	4938890	7610	714	5433540
5	Safety Belt	No.	3423	4450	15232350	3423	4895	16755585	3423	5384	18429432	3423	5922	20271006	3423	6514	22297422
6	Safety Boot 6"	Pairs	1522	2099	3194678	1522	2309	3514298	1522	2540	3865880	1522	2794	4252468	1522	3073	4677106
	Safety Boot 7"	Pairs	1522	2099	3194678	1522	2309	3514298	1522	2540	3865880	1522	2794	4252468	1522	3073	4677106
	Safety Boot 8"	Pairs	1522	2099	3194678	1522	2309	3514298	1522	2540	3865880	1522	2794	4252468	1522	3073	4677106
	Safety Boot 9"	Pairs	1522	2099	3194678	1522	2309	3514298	1522	2540	3865880	1522	2794	4252468	1522	3073	4677106
	Safety Boot 10"	Pairs	1522	2099	3194678	1522	2309	3514298	1522	2540	3865880	1522	2794	4252468	1522	3073	4677106
7	Disconnecting Stick	No.	3423	4400	15061200	3423	4840	16567320	3423	5324	18224052	3423	5856	20045088	3423	6442	22050966
8	Side Cutting Plier	No.	6846	370	2533020	6846	408	2793168	6846	449	3073854	6846	440	3012240	6846	484	3313464
9	Lineman Life Saving Chain	No.	3423	1575	5391225	3423	1732	5928636	3423	1905	6520815	3423	2095	7171185	3423	2304	7886592
10	Lineman Rain Coat	No.	7610	575	4375750	7610	632	4809520	7610	695	5288950	7610	764	5814040	7610	840	6392400
11	Lineman Tool Bag	No.	6846	530	3628380	6846	583	3991218	6846	641	4388286	6846	705	4826430	6846	775	5305650
12	Bolt Cutter	No.	402	3490	1402980	402	3839	1543278	402	4223	1697646	402	4645	1867290	402	5110	2054220
13	Ratchet Lever Hoist, 750kg	No.	219	6400	1401600	219	7040	1541760	219	7744	1695936	219	8518	1865442	219	9370	2052030
	Ratchet Lever Hoist 1500kg	No.	219	8400	1839600	219	9240	2023560	219	10164	2225916	219	11180	2448420	219	12298	2693262
14	Chain Pulley Block 3-Ton	No.	196	10500	2058000	196	11550	2263800	196	12705	2490180	196	13975	2739100	196	15372	3012912
15	Pulling Grips (4-20 MM)	No.	402	3900	1567800	402	4290	1724580	402	4719	1897038	402	5191	2086782	402	5710	2295420
16	F.Glass Ladder 32ft	No.	402	29600	11899200	402	32560	13089120	402	35816	14398032	402	39398	15837996	402	43338	17421876
	F.Glass Ladder 48ft	No.	402	40500	16281000	402	44550	17909100	402	49005	19700010	402	53905	21669810	402	59295	23836590
17	Torch 3-Cell (Chargeable)	No.	201	378	75978	201	416	83616	201	458	92058	201	504	101304	201	554	111354
18	Adjustable Screw Wrench 12"	No.	784	410	321440	784	451	353584	784	496	388864	784	546	428064	784	601	471184
	Adjustable Screw Wrench 10"	No.	784	550	431200	784	605	474320	784	666	522144	784	733	574672	784	806	631904
	Adjustable Screw Wrench 08"	No.	784	249	195216	784	274	214816	784	301	235984	784	331	259504	784	364	285376
19	Manila Rope 24mm	Mtr	10060	242	2432100	10060	266	2673300	10060	293	2944650	10060	322	3236100	10060	354	3557700
20	Earthing Set	No.	402	20900	8401800	402	22990	9241980	402	25289	10166178	402	27818	11182836	402	30600	12301200
21	Lineman Knife	No.	3423	259	886557	3423	285	975555	3423	313	1071399	3423	344	1177512	3423	378	1293894
22	Clip on KWH Meter	No.	179	30250	5414750	179	33275	5956225	179	36602	6551758	179	40262	7206898	179	44281	7926299
23	Hand Line	No.	402	1200	482400	402	1320	530640	402	1452	583704	402	1597	641994	402	1757	706314
24	Phase Tester	No.	6846	90	616140	6846	99	677754	6846	109	746214	6846	120	821520	6846	132	903672
25	Gasper	No.	6846	235	1608810	6846	258	1766268	6846	284	1944264	6846	312	2135952	6846	343	2348178
26	High Voltage Detector	No.	402	24200	9728400	402	26620	10701240	402	29282	11771364	402	32210	12948420	402	35431	14243262
TOTAL					184999596			203487545			223838918			245827579			270394171

B. Capital Expenditure Year Wise (in Rs.)

	CAPEX								
1	Bucket Mounted Trucks 01 per subdivision:	231	8000000	224,000,000	304,000,000	400,000,000	400,000,000	520,000,000	1,848,000,000
2	Mobile Phones for Complaint Handling LM Team field Teams (01 per subdivision)	231	8000	376,000	368,000	368,000	368,000	368,000	1,848,000
3	Tools & PPEs	-	-	184,999,596	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 (In MRs.)			409	508	624	646	791	2,978

C. Operational Expenditure Year Wise (in Rs.)

	Opex								
1	Bucket Mounted Trucks 01 per 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 Handling LM Team field Teams (01 per subdivision)	231	12,000	564,000	1,116,000	1,668,000	2,220,000	2,772,000	8,340,000
	Total Opex Cost			17,924,000	42,036,000	73,588,000	105,140,000	145,992,000	384,680,000
	Total Opex Cost (In 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

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

LS-II	10	200	10	200	10	200	10	200	10	200
LFM-II/LM-I	10	250	12	300	12	300	14	340	15	200
LM-II	25	500	25	500	20	500	25	500	25	600
ALM	30	600	30	600	32	640	32	640	30	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

Year	Project Cost			Project Benefits			Benefits/ (Loss) (Rs. In Million)	Discounted Cost @				Discounted Benefits @				Net Benefit	Discount Factor @			
	Capital Cost	O&M Cost	Total Cost	Savings (MkWh)	Power Purchase Price Rs./kWh	Savings (Million Rs.)		7.47%	10.00%	12.00%	15.02%	7.47%	10.00%	12.00%	15.02%		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		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		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		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		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	0.1226
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	0.1066
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		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	189.55	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
2046		594.90	594.90	182.92	12.97	2,372.44	1,778	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		594.90	594.90	176.52	12.97	2,289.40	1,695	85.1	45.4	27.9	13.6	327.3	174.6	107.4	52.3	1,695	0.1430	0.0763	0.0469	0.0229
2048		594.90	594.90	170.34	12.97	2,209.27	1,614	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
2049		594.90	594.90	164.38	12.97	2,131.95	1,537	73.6	37.5	22.2	10.3	263.9	134.4	79.7	36.8	1,537	0.1238	0.0630	0.0374	0.0173
2050		594.90	594.90	158.62	12.97	2,057.33	1,462	68.5	34.1	19.9	8.9	237.0	117.9	68.7	30.9	1,462	0.1152	0.0573	0.0334	0.0150
2051		594.90	594.90	153.07	12.97	1,985.33	1,390	63.8	31.0	17.7	7.8	212.8	103.4	59.2	25.9	1,390	0.1072	0.0521	0.0298	0.0131
2052		594.90	594.90	147.71	12.97	1,915.84	1,321	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
2053		594.90	594.90	142.54	12.97	1,848.78	1,254	55.2	25.6	14.1	5.9	171.6	79.6	43.9	18.3	1,254	0.0928	0.0431	0.0238	0.0099
2054		594.90	594.90	137.55	12.97	1,784.08	1,189	51.4	23.3	12.6	5.1	154.0	69.8	37.8	15.3	1,189	0.0863	0.0391	0.0212	0.0086
2055		594.90	594.90	132.74	12.97	1,721.63	1,127	47.8	21.2	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				

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	7.47%	10.00%	12.00%	15.02%	
Benefit/ Cost Ratio (B/C Ratio)	2.004	1.805	1.674	1.511	
Net Present Value of Benefits (Rs. In Million)	20,788	14,643	11,214	7,557	
IRR on Net Benefits %age					34%
Payback Period (Years)					2.98

MULTAN ELECTRIC POWER COMPANY LTD.

PROJECT FINANCIAL ANALYSIS

DOP & ELR

2020-21 to 2024-25

Year	Project Cost			Project Benefits			Benefits/ (Loss) (Rs. In Million)	Discounted Cost @				Discounted Benefits @				Net Benefit	Discount Factor @			
	Capital Cost	O&M Cost	Total Cost	Savings (MkWh)	Power Purchase Price Rs./kWh	Savings (Million Rs.)		7.47%	10.00%	12.00%	15.02%	7.47%	10.00%	12.00%	15.02%		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	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		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		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	0.1622
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		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	78.6	45.0	1,023.8	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	162.0	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		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		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		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	28,316	25,484.40	53,800.40	12,920			113,772	29,711.1	26,144.3	23,962.1	21,356.8	62,734.8	48,873.4	40,970.2	32,293.3	######				

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	7.47%	10.00%	12.00%	15.02%	
Benefit/ Cost Ratio (B/C Ratio)	2.111	1.869	1.710	1.512	
Net Present Value of Benefits (Rs. In Million)	33,024	22,729	17,008	10,936	
IRR on Net Benefits %age					29%
Payback Period (Years)					3.49

ANNEXURE-20

PROFIT & LOSS STATEMENT

MULTAN ELECTRIC POWER COMPANY

Profit & Loss Statement

		FY 2018-19 Actual	FY 2019-20 Actual	FY 2020-21 Projected	FY 2021-22 Projected	FY 2022-23 Projected	FY 2023-24 Projected	FY 2024-25 Projected
Revenue								
Sales Revenue	[Mln Rs]	165,348	199,343	235,810	218,357	255,906	271,155	302,280
Subsidy	[Mln Rs]	69,965	79,588	114,098	120,746	126,631	132,807	139,283
Fuel Price Adjustment	[Mln Rs]	-	-	-	-	-	-	-
Total Sales Revenue	[Mln Rs]	**235,312**	**278,931**	**349,908**	**339,103**	**382,537**	**403,962**	**441,563**
Rental & Service Income	[Mln Rs]	155	151	154	142	155	159	160
Amortization of Deferred Credits	[Mln Rs]	2,759	2,952	3,188	3,484	3,818	4,144	4,478
Other Income	[Mln Rs]	3,657	3,991	4,335	4,422	4,688	4,982	5,285
Total Revenue	[Mln Rs]	**241,884**	**286,025**	**357,585**	**347,151**	**391,198**	**413,247**	**451,486**
Operating Cost								
Power Purchase Cost	[Mln Rs]	225,725	248,407	240,923	298,973	336,572	351,993	383,169
O&M Expenses	[Mln Rs]	22,814	26,191	26,303	30,896	35,029	39,382	44,251
Depreciation	[Mln Rs]	4,693	5,121	5,673	6,360	7,115	7,894	8,6[illegible]
Amortization	[Mln Rs]	17	10					
Supplemental Charges	[Mln Rs]	2,171	1,848	2,453	2,632	2,803	2,986	3,180
*Provision for Bad Debt	[Mln Rs]	6,955	584	-	-	-	-	-
Total Operating Cost	[Mln Rs]	**262,376**	**282,161**	**275,351**	**338,861**	**381,519**	**402,255**	**439,286**
EBIT	[Mln Rs]	**(20,492)**	**3,864**	**82,234**	**8,290**	**9,679**	**10,992**	**12,199**
Financial Charges	[Mln Rs]	2,310	2,212	2,007	1,739	1,496	1,272	1,094
Earning before Tax (EBT)	[Mln Rs]	(22,802)	1,652	80,227	6,550	8,182	9,719	11,105
Tax	[Mln Rs]		1,276					
Earning after Tax (EAT)	[Mln 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

Description	AS ON 30th June, 2019	AS ON 30th June, 2020	AS ON 30th June, 2021	AS ON 30th June, 2022	AS ON 30th June, 2023	AS ON 30th June, 2024	AS ON 30th June, 2025
Intangible Fixed Assets	10,102						
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**	**177,141**
Capital Work in Progress	10,899	15,040	13,691	16,282	18,100	18,432	18,732
Long Term Loans to Employees	81	81	111	151	196	251	311
Deferred Cost & Long Term Deposits	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	10,980	15,122	13,803	16,433	18,296	18,683	19,043
Current Assets							
Stores & Spares	8,103	6,329	6,265	6,140	6,079	6,687	7,155
Trade Debts	29,489	51,202	50,690	50,183	49,681	53,656	57,948
Advances, Prepayments, Other Receivables	350	321	20,838	20,629	20,423	21,036	21,667
Tariff Subsidy (Receivable from GoP)	57,165	94,229	92,344	87,727	84,218	82,533	85,009
Receivable from Associated Companies& Others	6,783	4,779	4,683	4,590	4,498	4,543	4,679
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**
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	9,789
Employee Retirement Benefits	79,175	80,583	99,011	115,887	132,847	150,113	168,869
Sukok etc.							
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							
Current Maturity on Long Term Loans	5,376	6,032	6,923	7,816	8,711	9,545	9,997
Accrued Mark up	9,293	10,789	10,249	9,737	9,250	8,787	7,469
Provision for Taxation & WPPF		1,276	1,276	-	-	-	-
Receipt Against Deposit work	20,723	25,803	27,093	28,177	29,868	30,465	27,114
Payable to NTDC/CPPA	104,090	155,443	69,943	65,746	62,525	56,272	49,519
Creditors, Accrued and Other Liabilities	18,911	19,410	40,457	33,848	23,289	21,117	26,434
Total Current Liability	**158,393**	**218,752**	**155,941**	**145,324**	**133,642**	**126,187**	**120,534**
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**

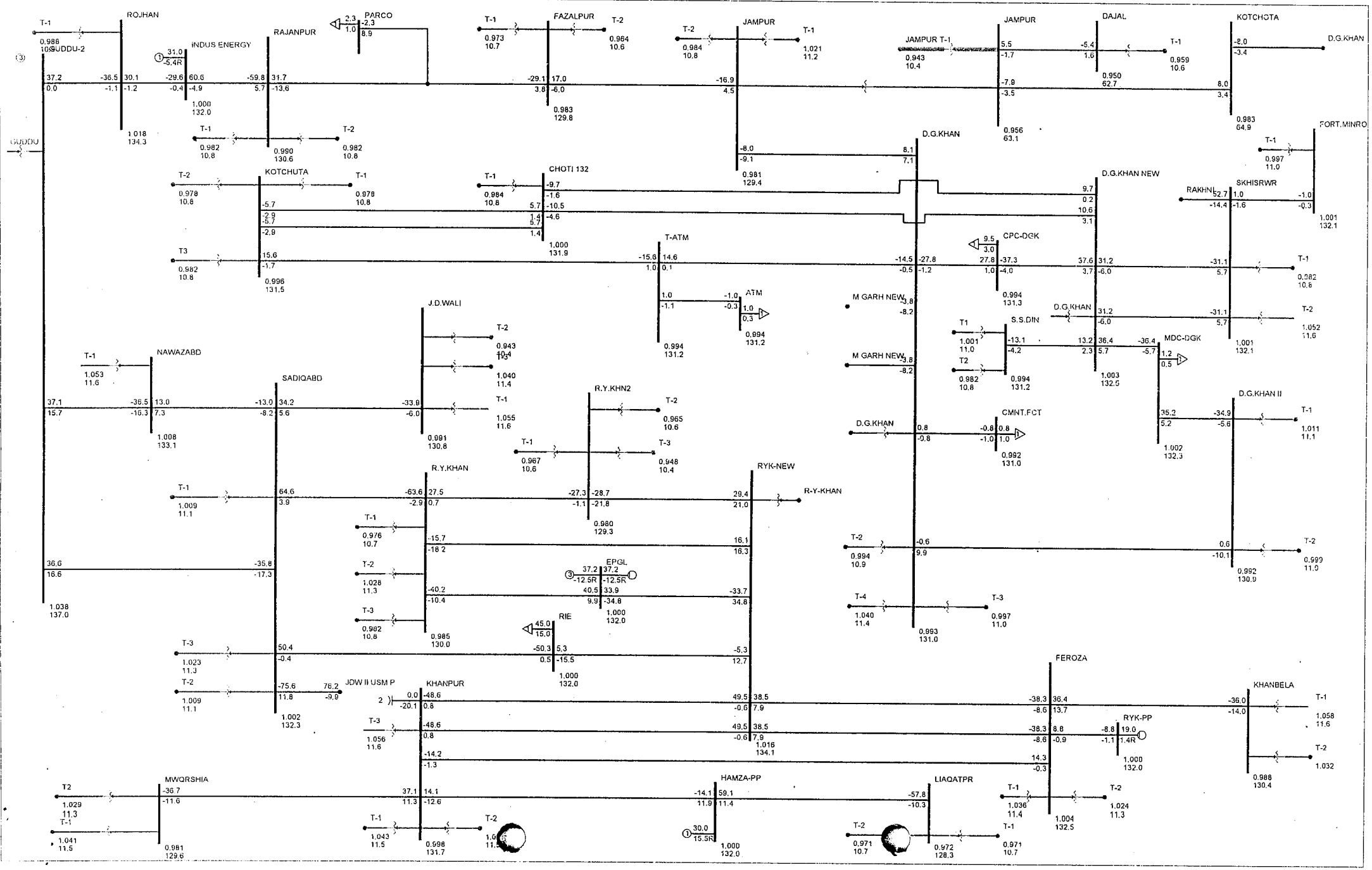
ANNEXURE-6

YEAR WISE SINGLE LINE DIAGRAM

SINGLE LINE DIAGRAM FOR FY: 2020-21 TO 2024-25

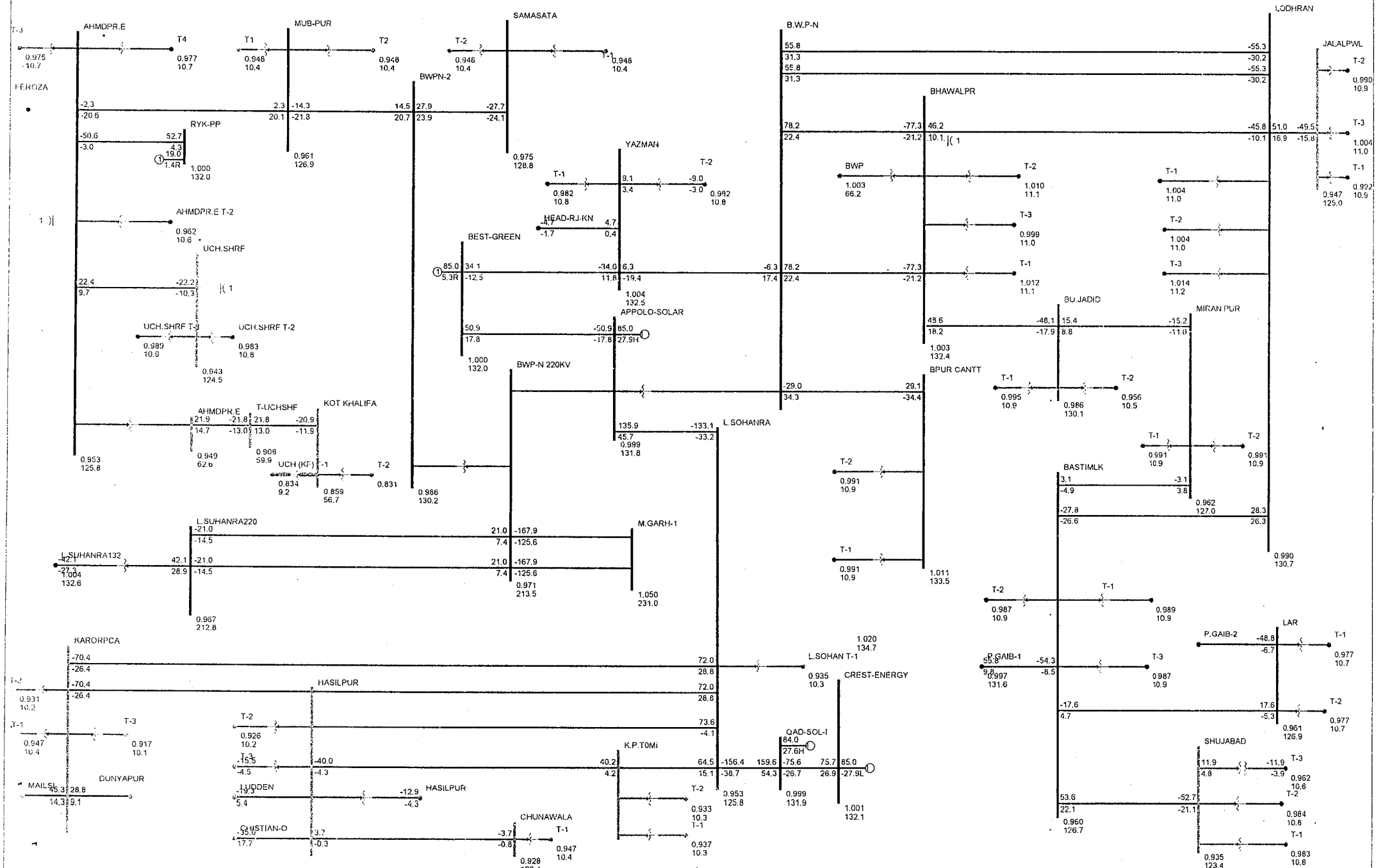
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD 2021 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2021-1.1



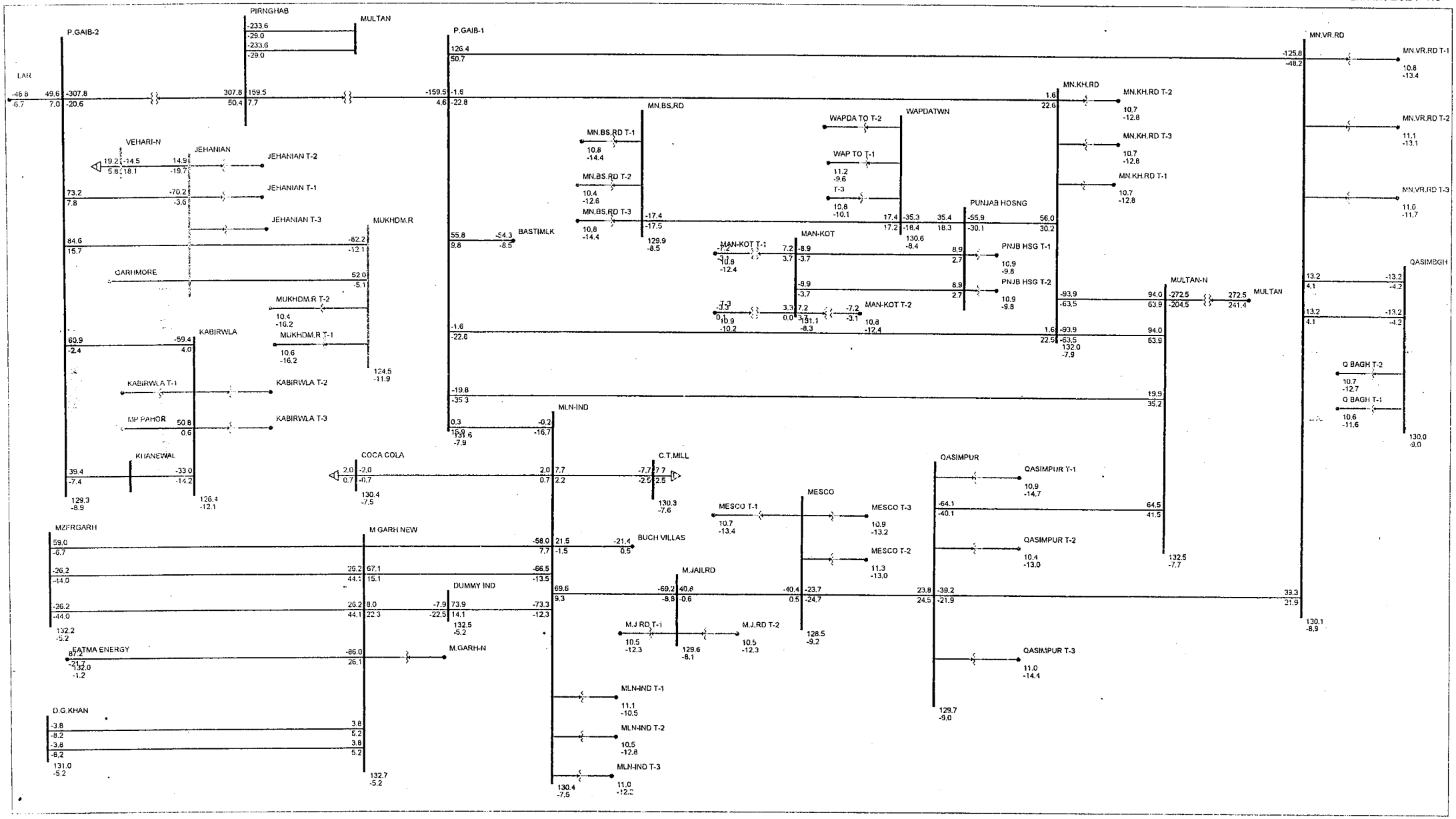
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD 2021 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2021-1.2



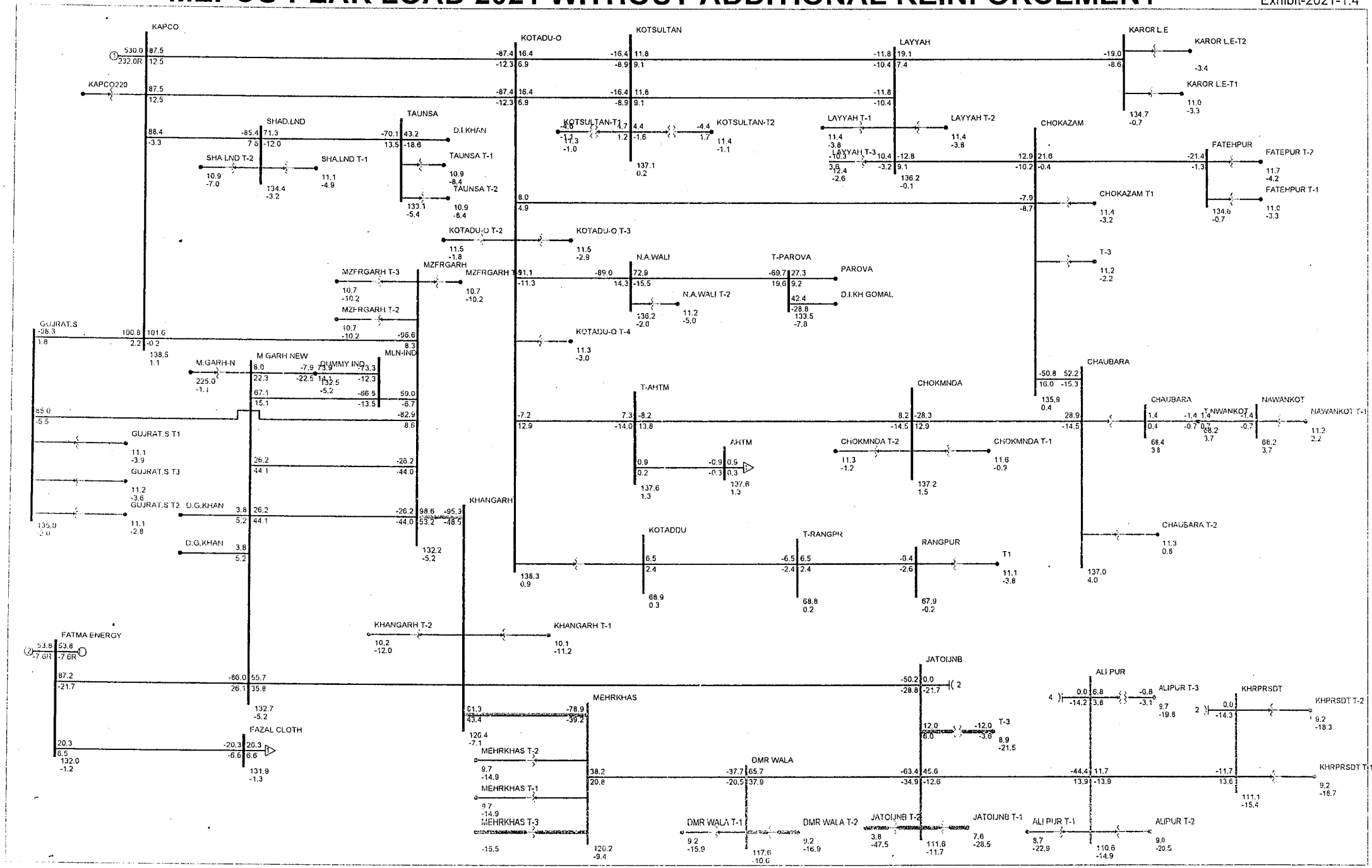
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD 2021 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2021-1.3



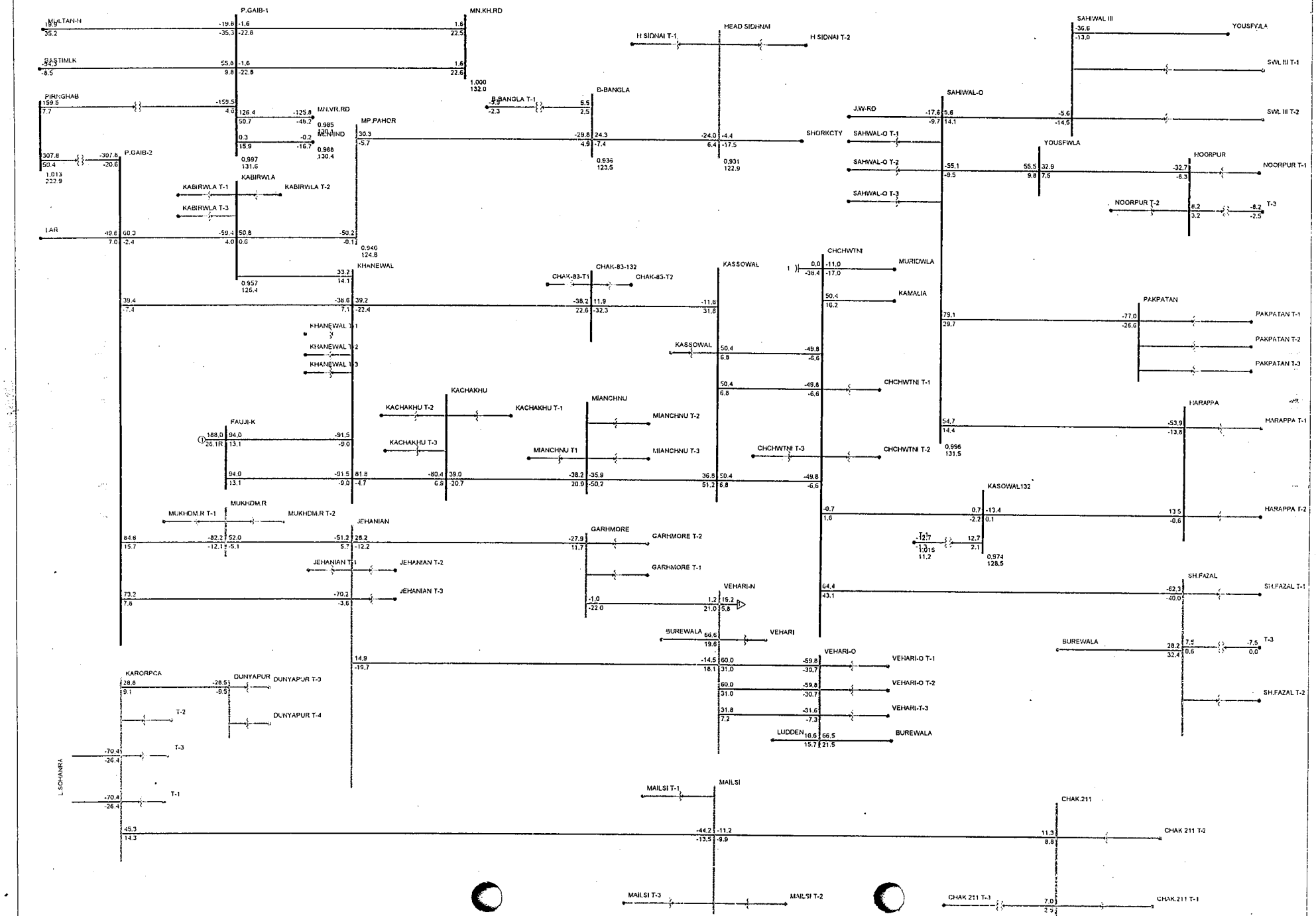
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD 2021 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2021-1.4



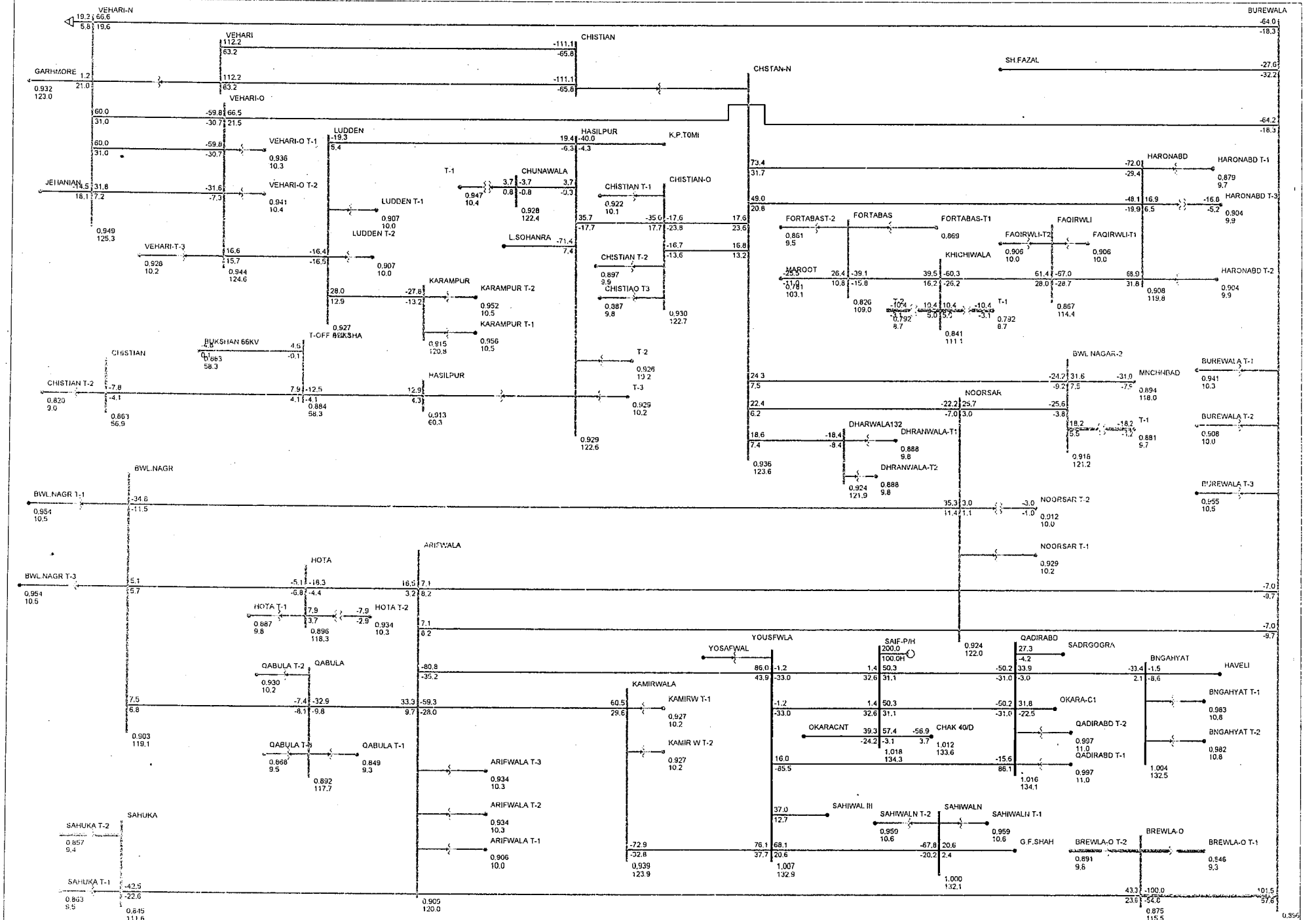
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD 2021 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2021-1.5



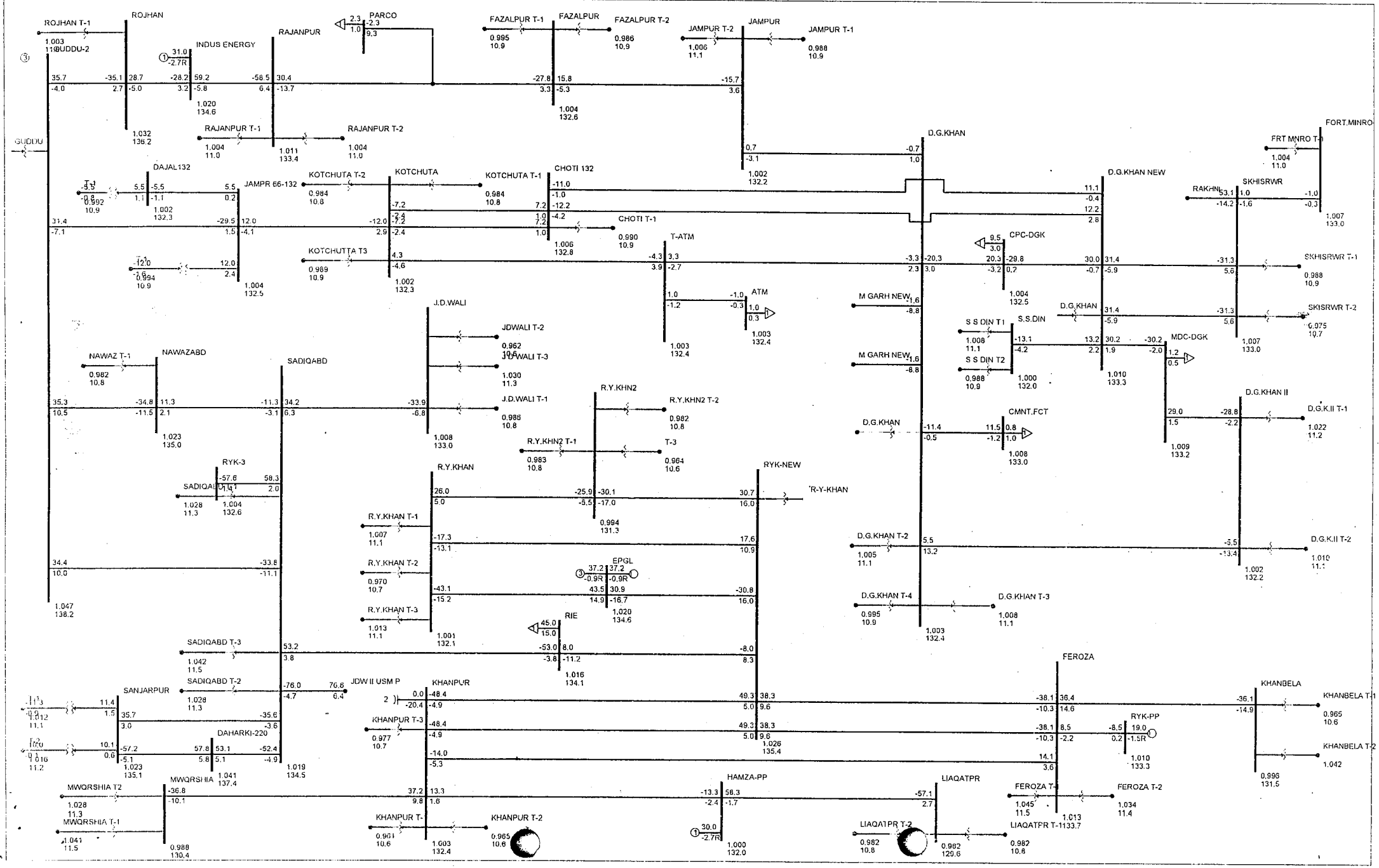
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD 2021 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2021-1.6



LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2021 WITH ADDITIONAL REINFORCEMENT

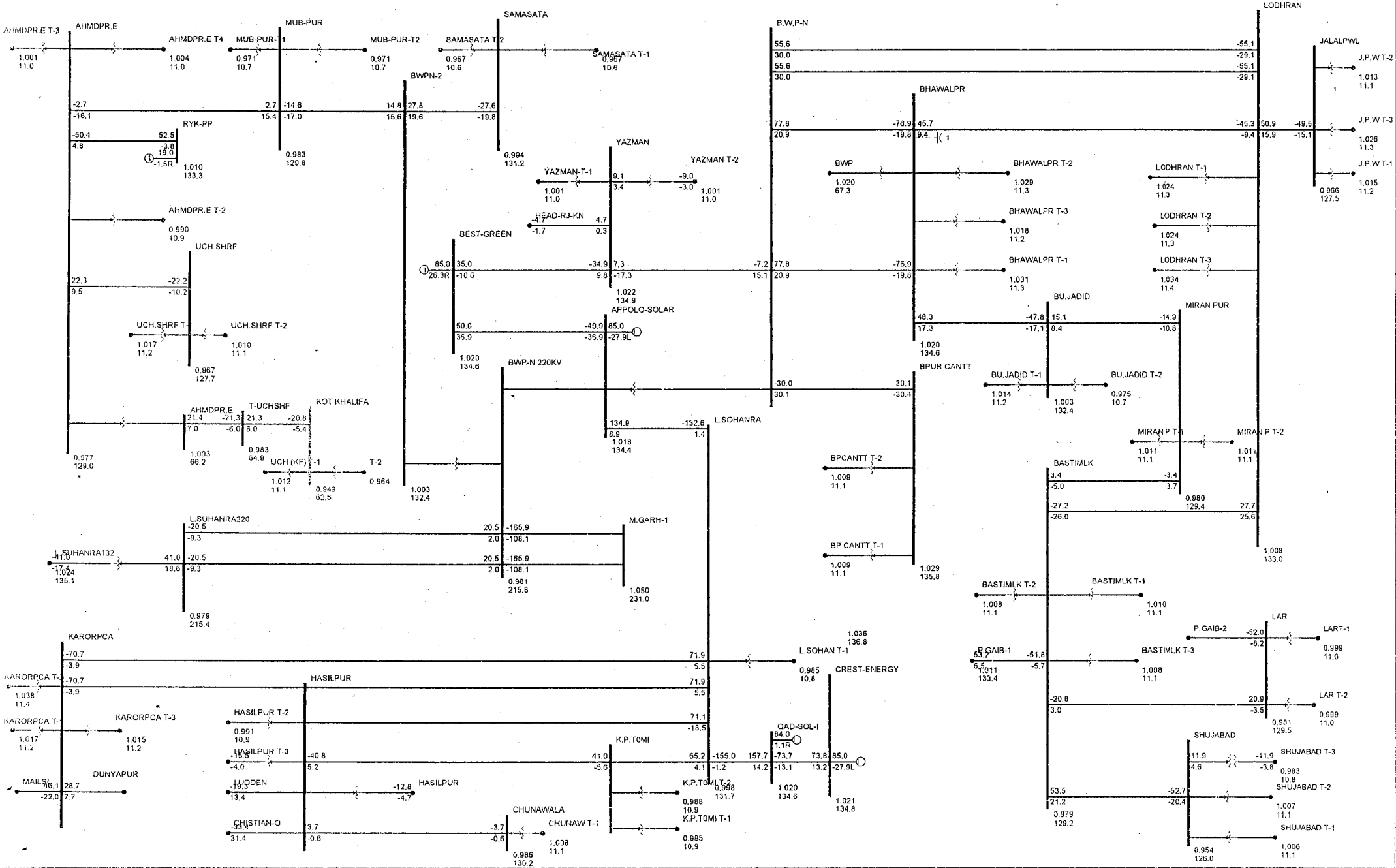
Exhibit-2021-2.1



LOAD FLOW FOR DIIP

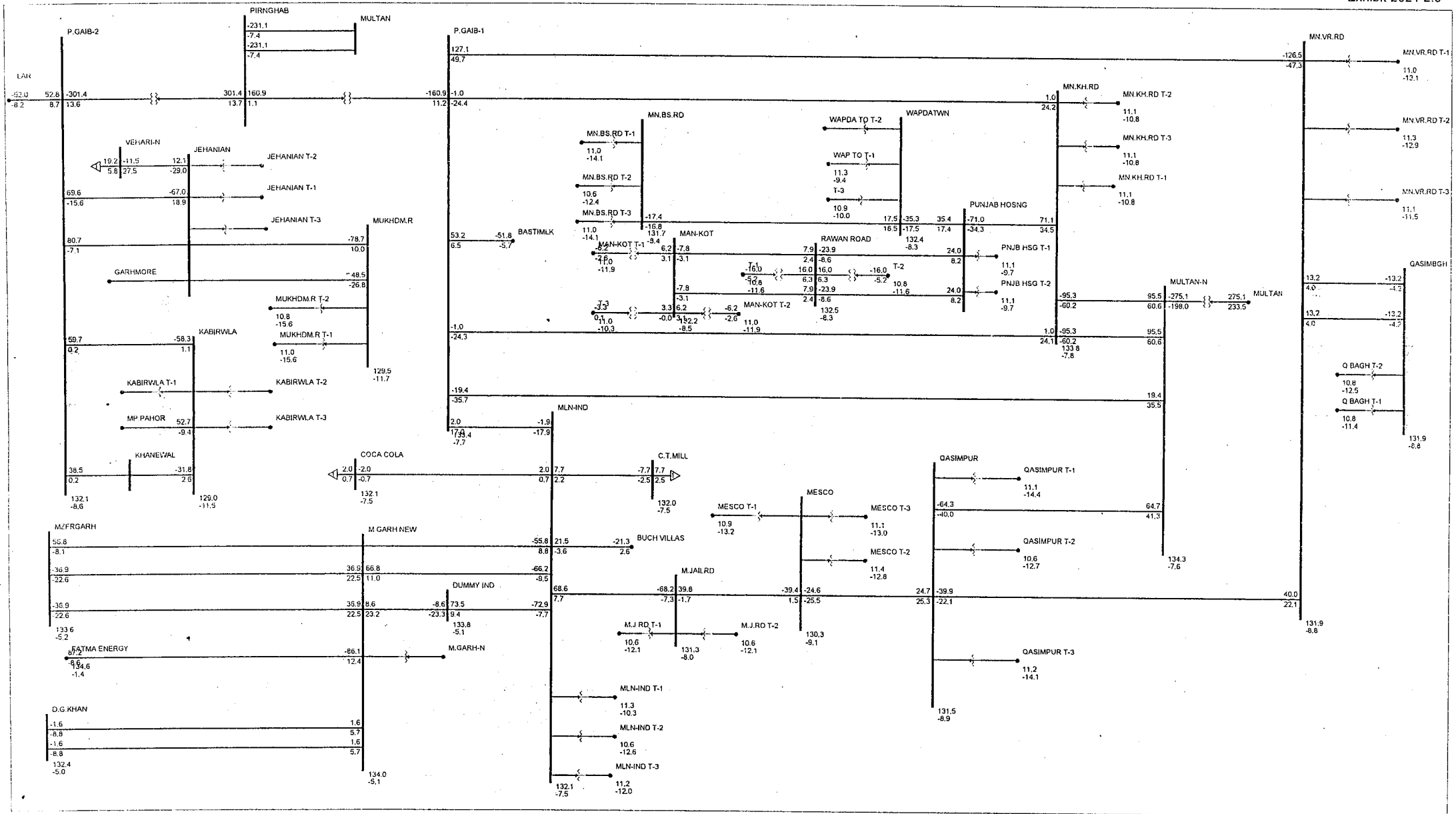
MEPCO PEAK LOAD CASE 2021 WITH ADDITIONAL REINFORCEMENT

Exhibit-2021-2.2



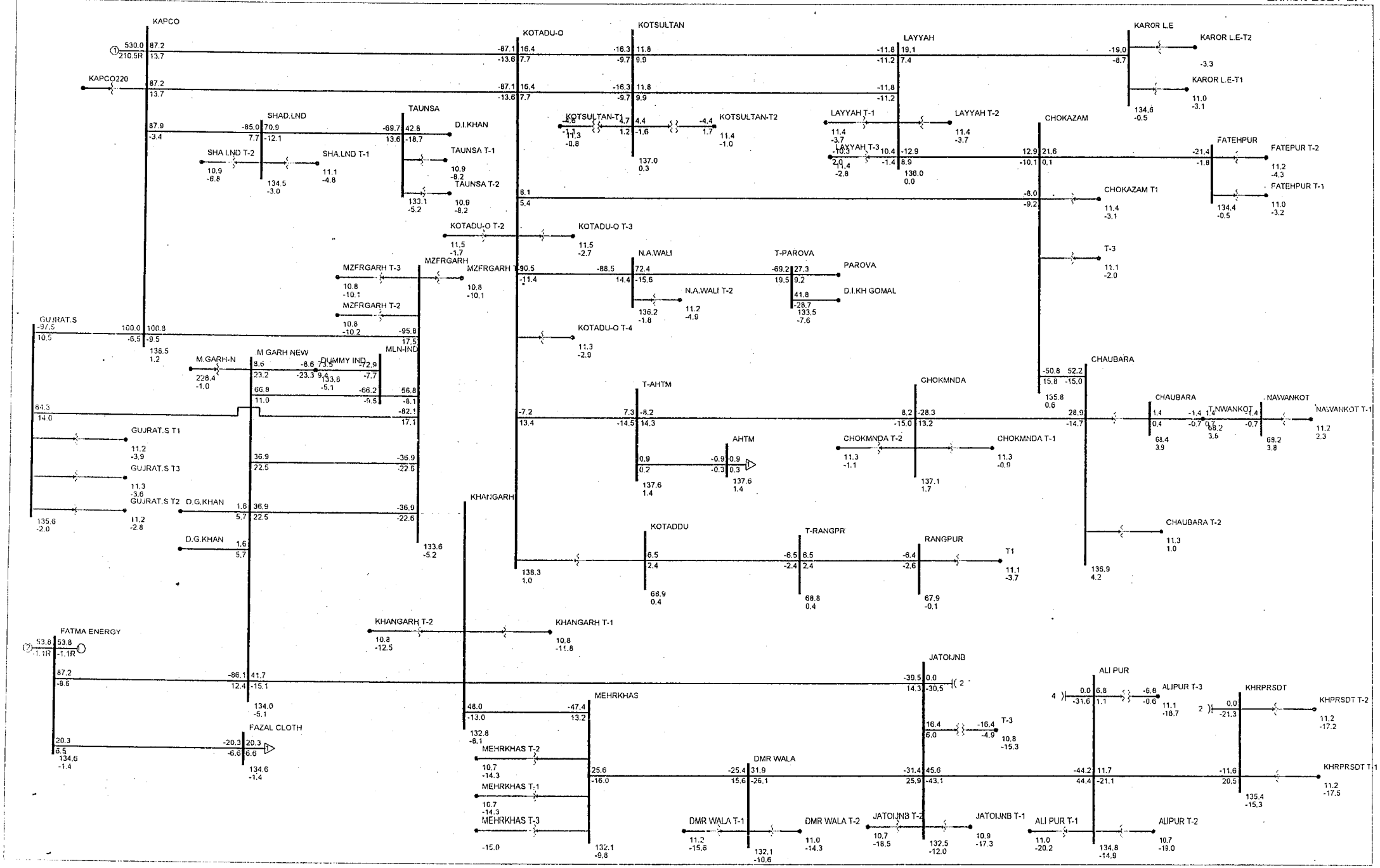
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2021 WITH ADDITIONAL REINFORCEMENT

Exhibit-2021-2.3



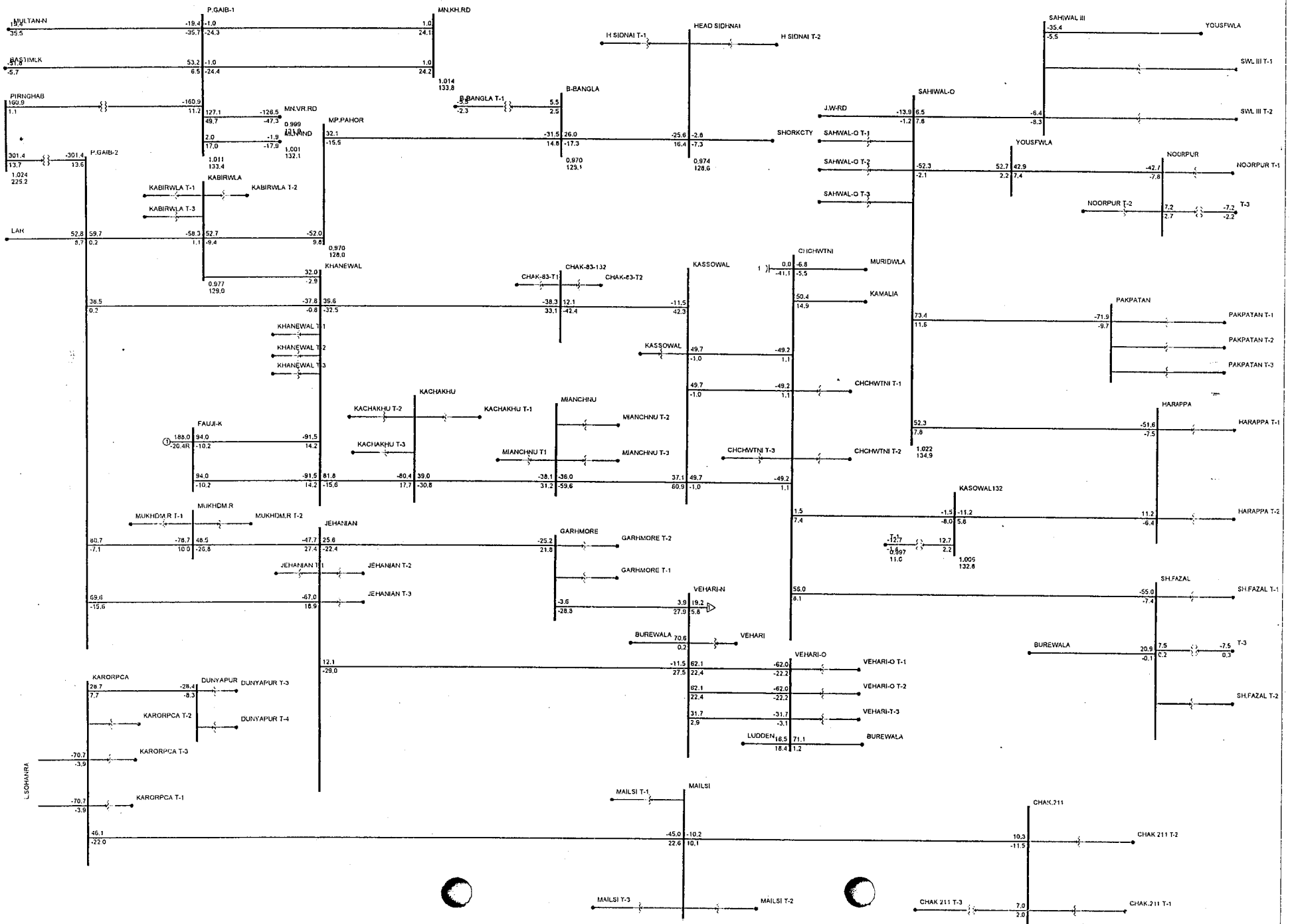
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2021 WITH ADDITIONAL REINFORCEMENT

Exhibit-2021-2.4



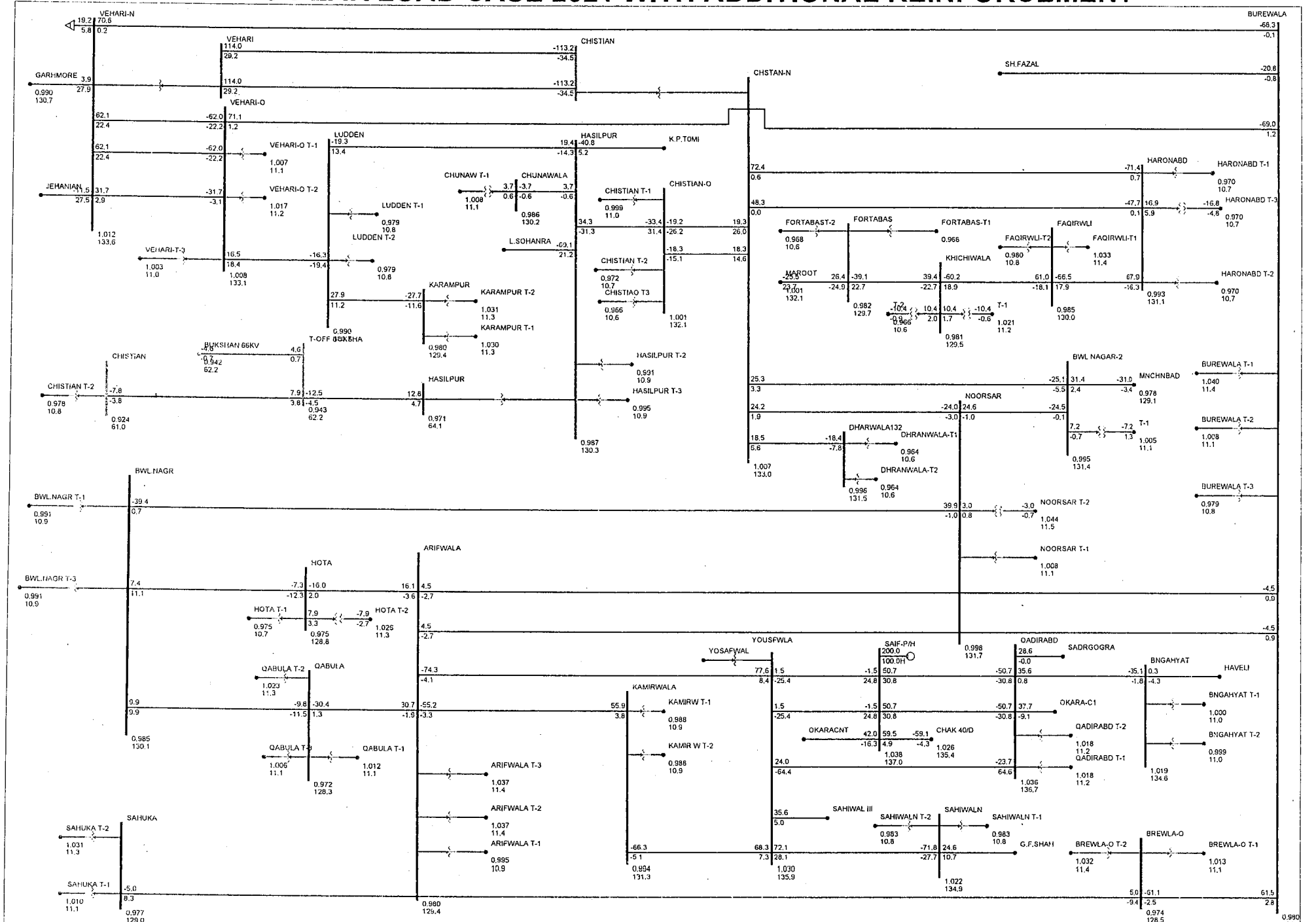
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2021 WITH ADDITIONAL REINFORCEMENT

Exhibit-2021-2.5



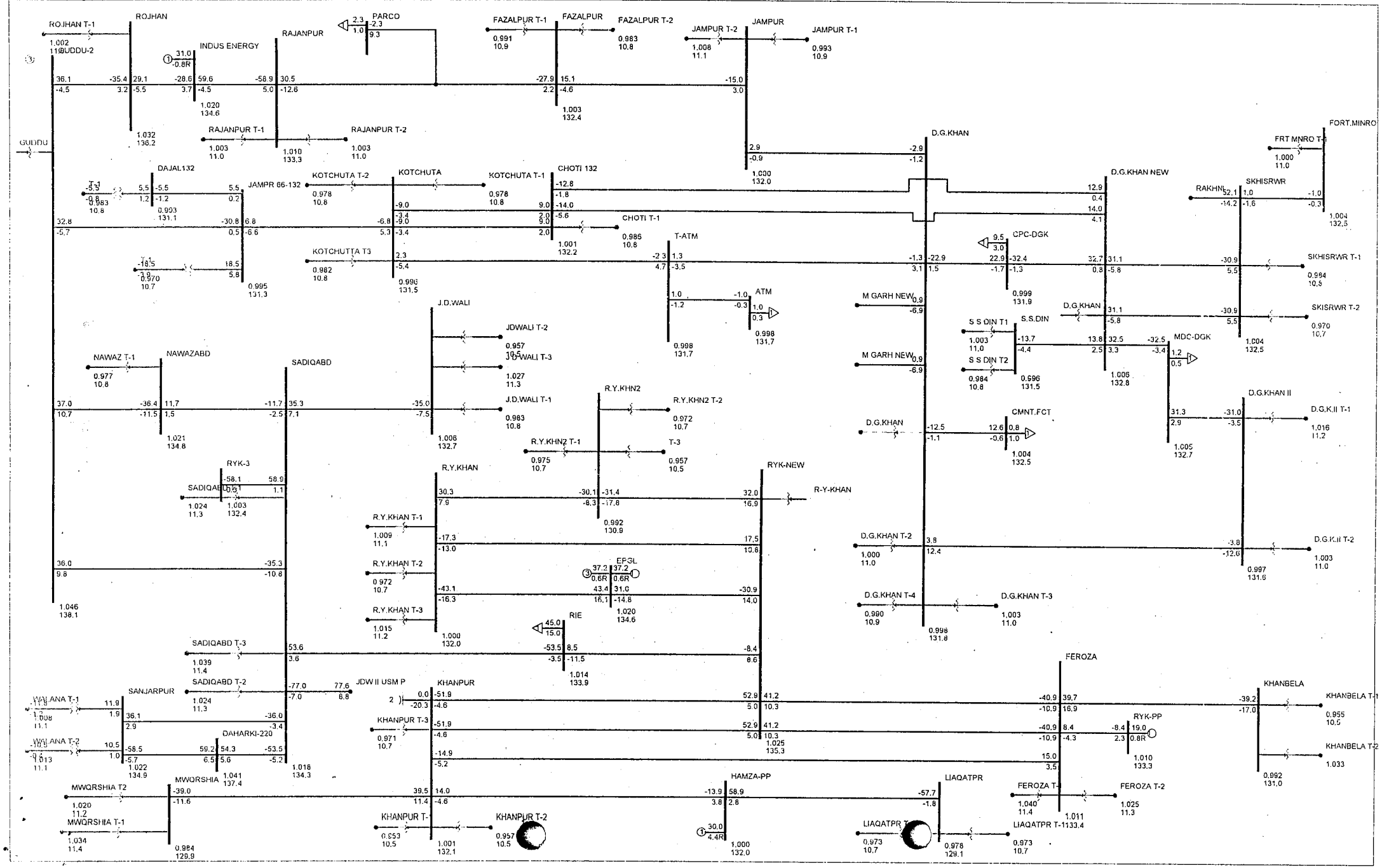
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2021 WITH ADDITIONAL REINFORCEMENT

Exhibit-2021-2.6



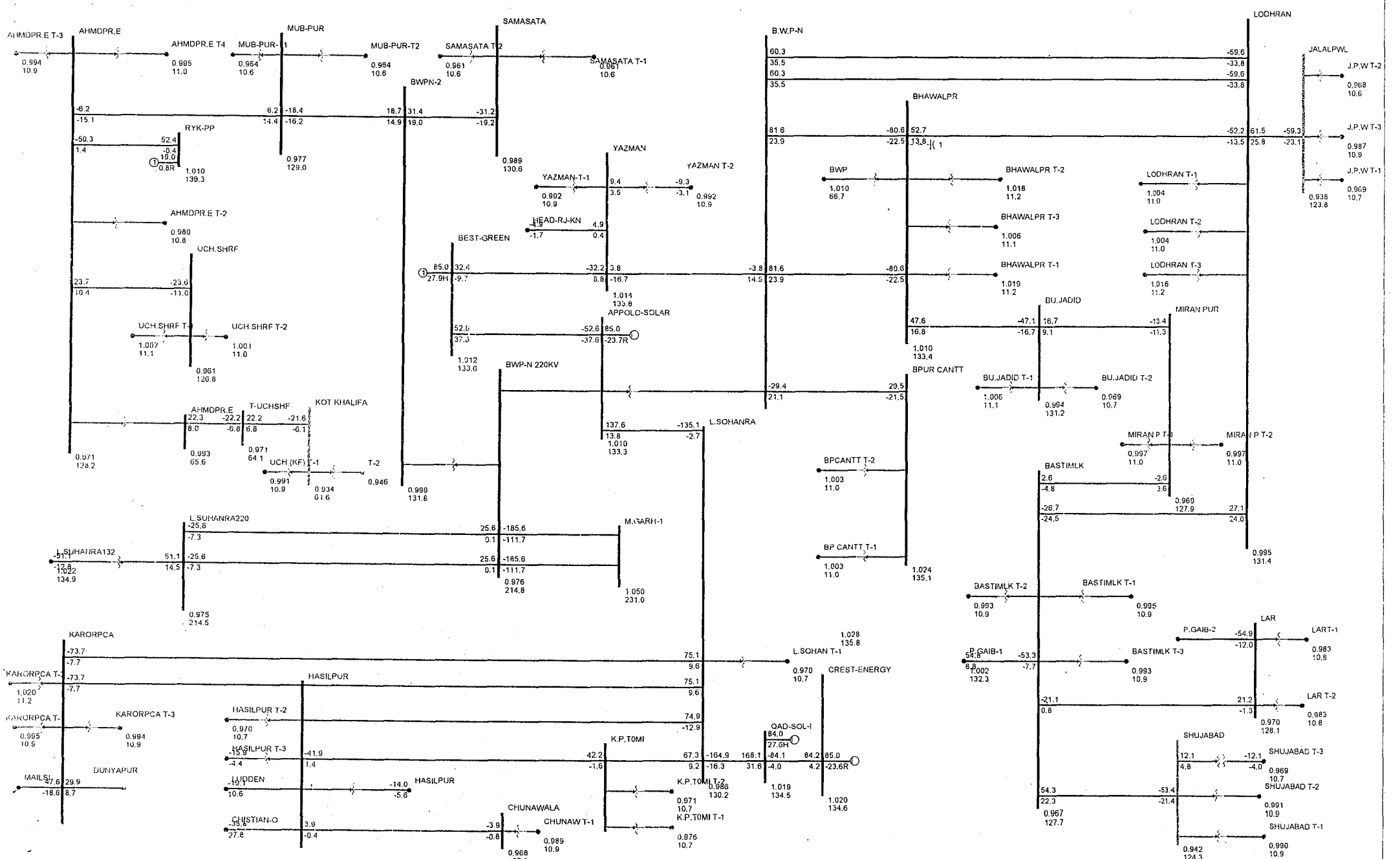
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2022 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2022-3.1



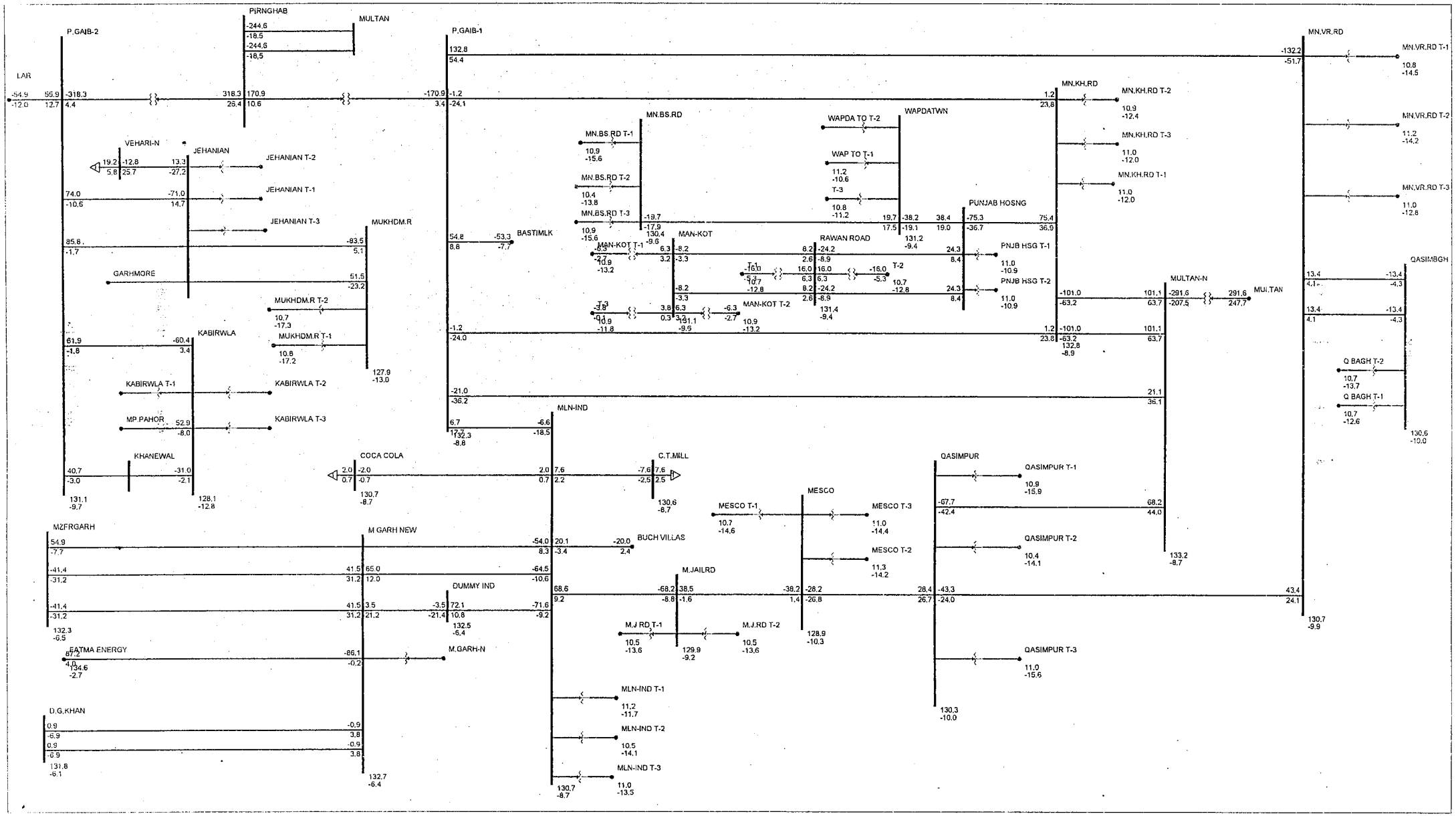
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2022 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2022-3.2



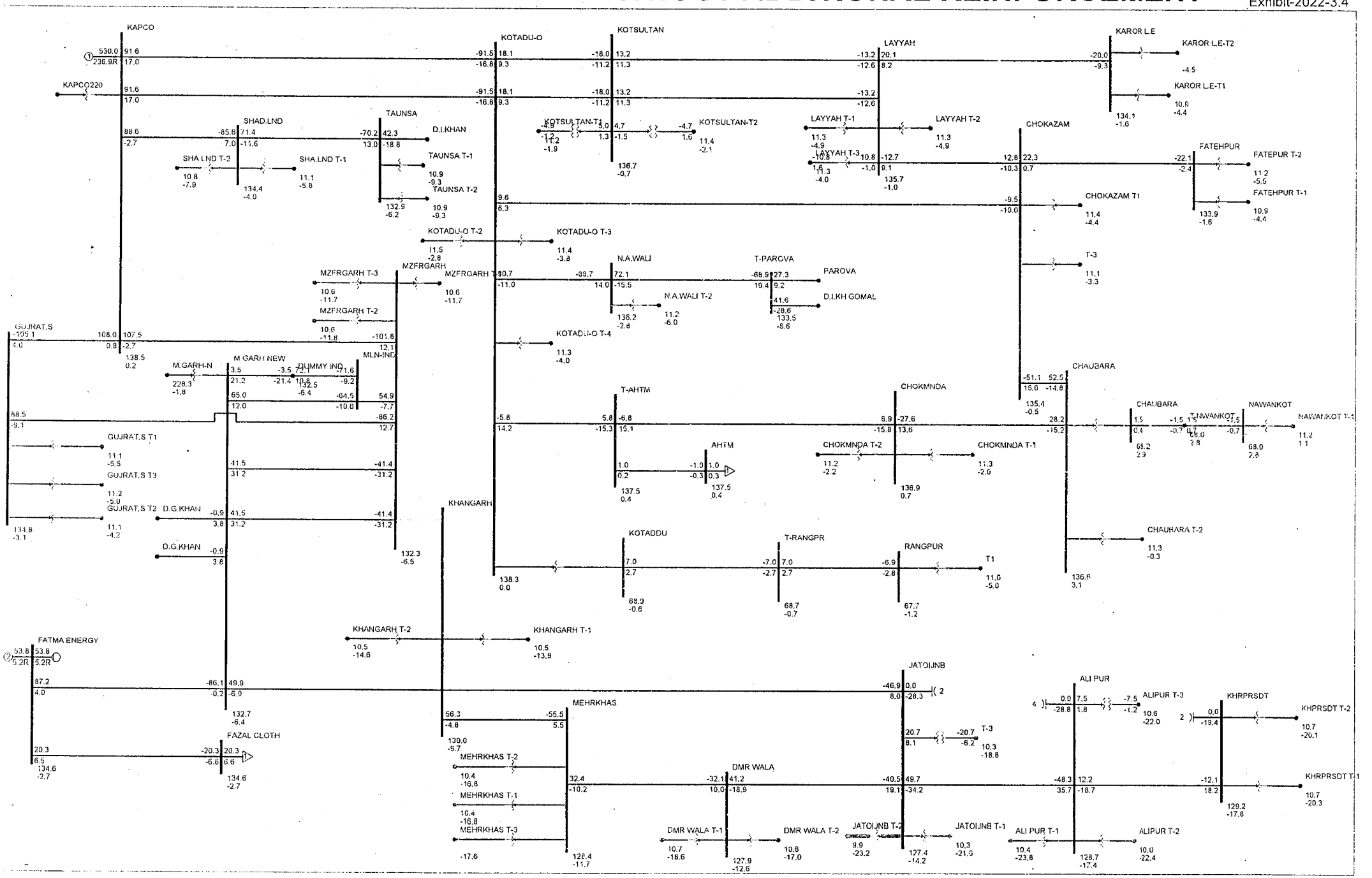
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2022 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2022-3.3



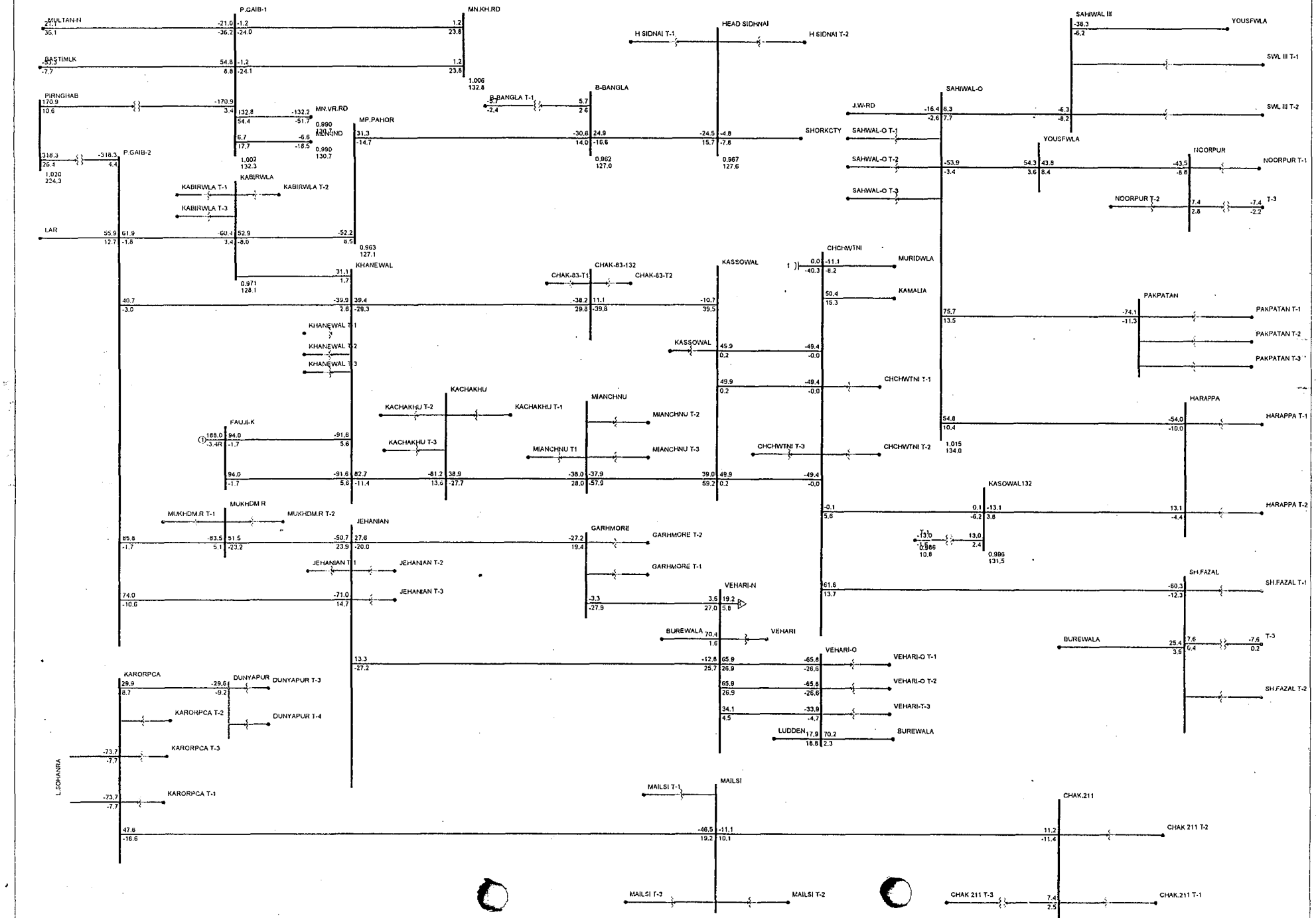
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2022 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2022-3.4



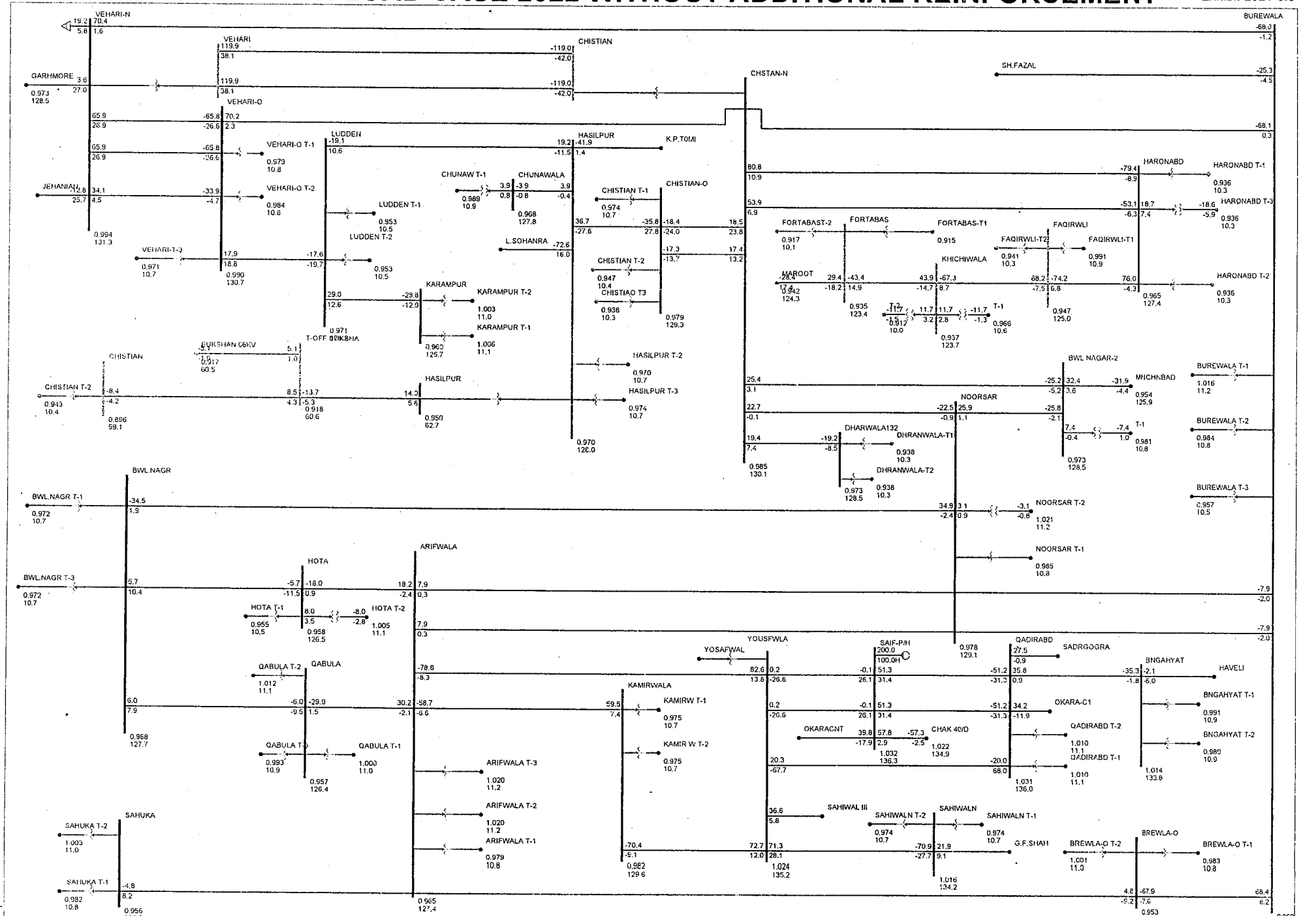
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2022 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2022-3.5



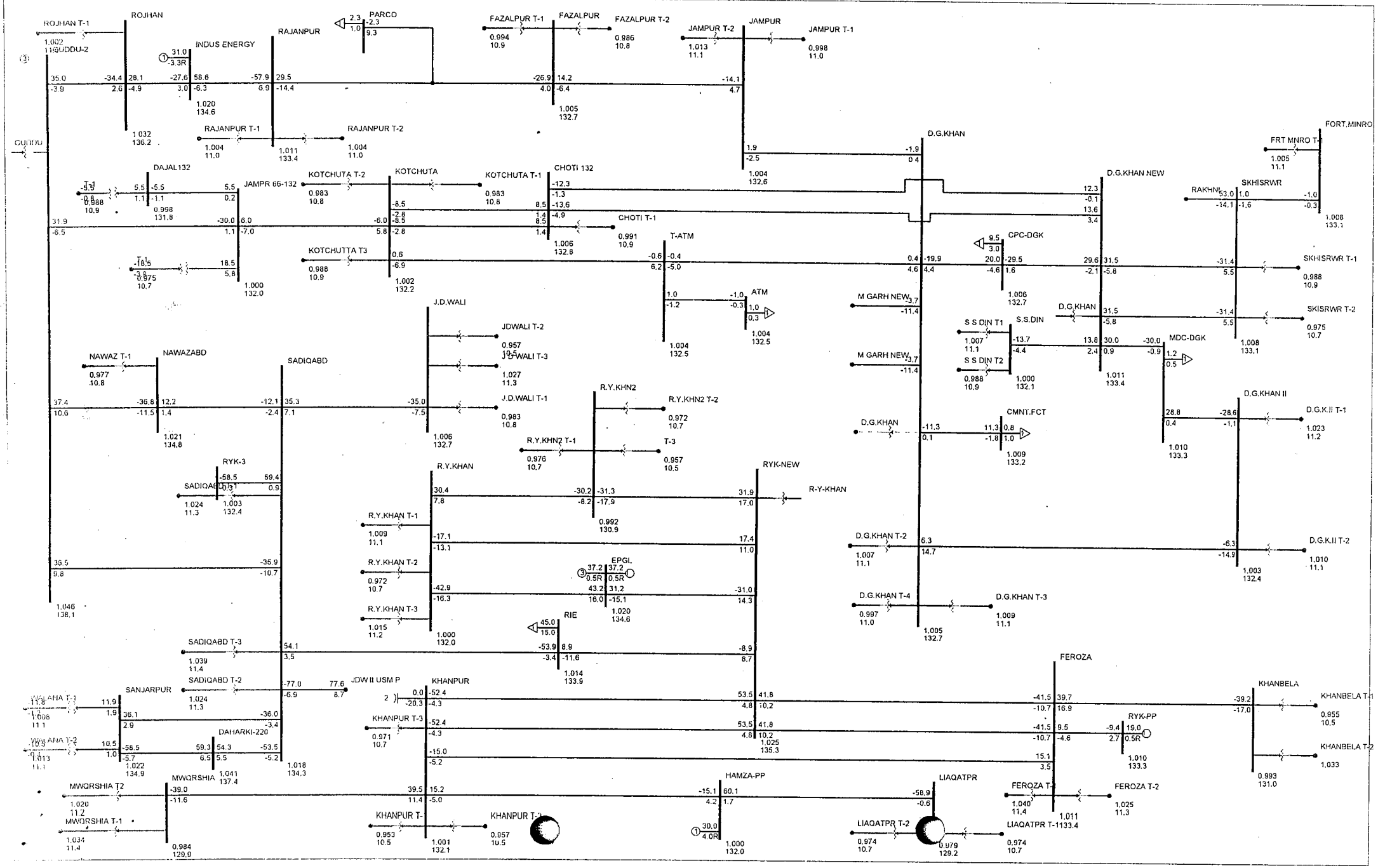
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2022 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2021-3.6



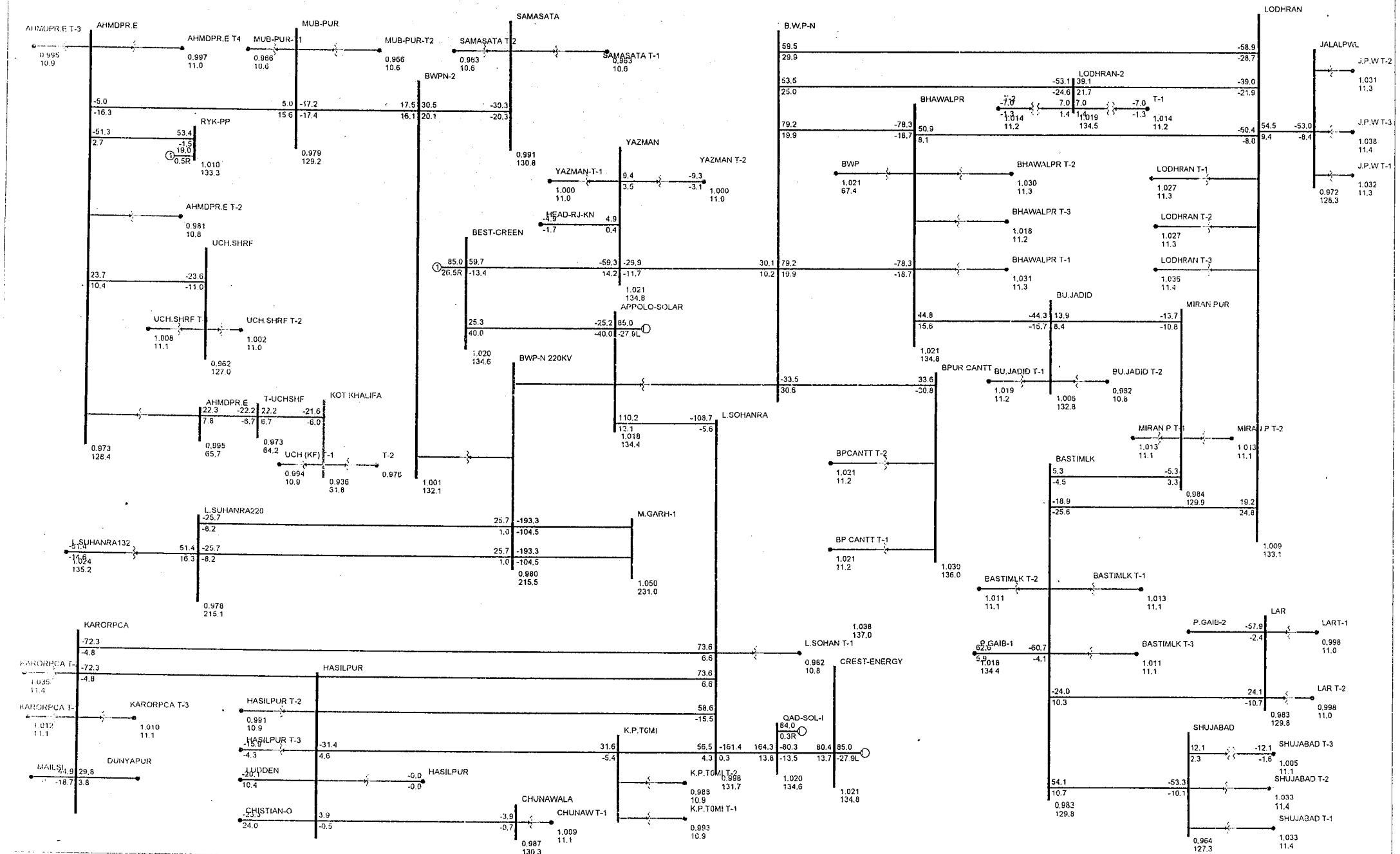
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2022 WITH ADDITIONAL REINFORCEMENT

Exhibit-2022-4.1



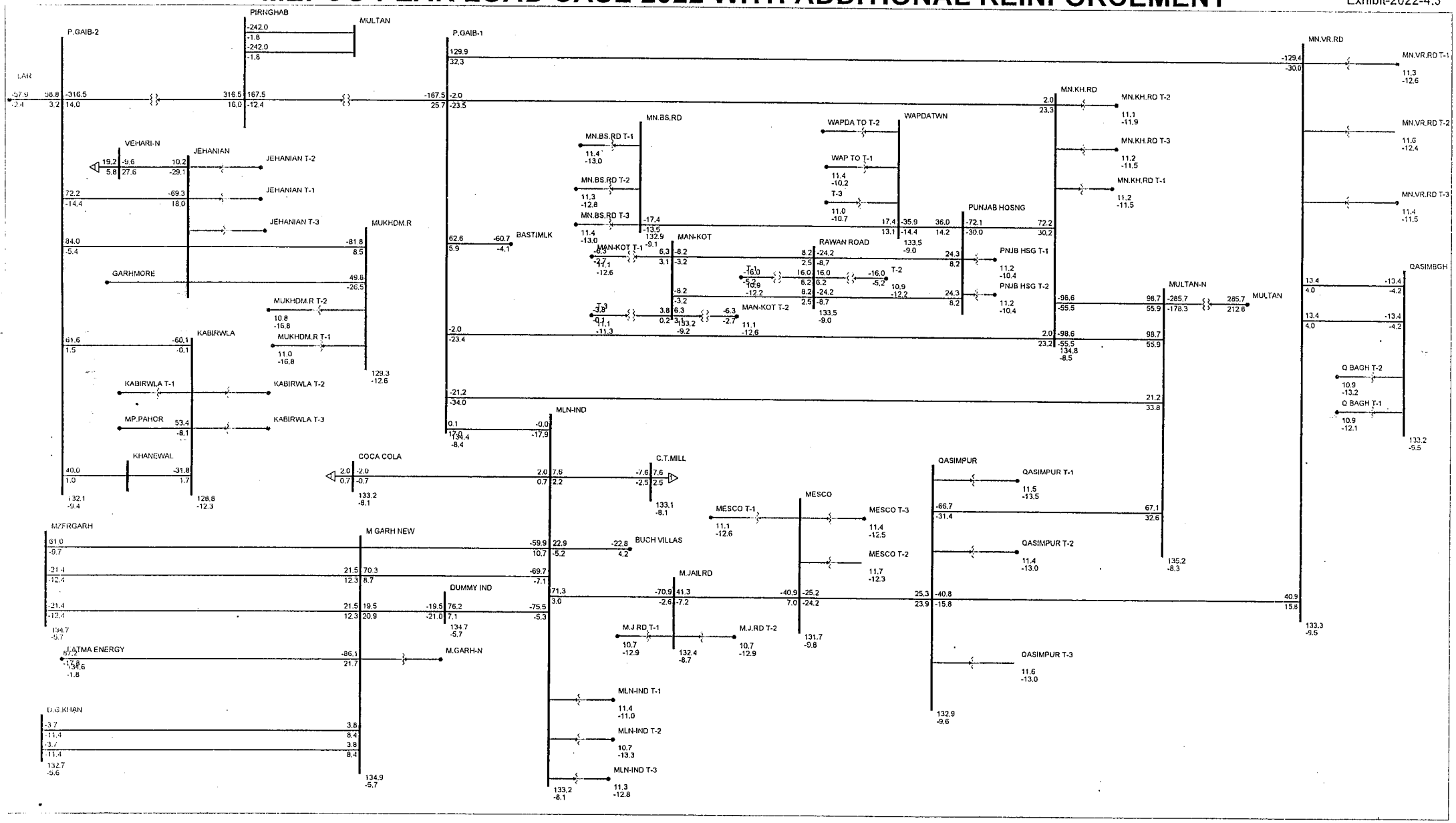
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2022 WITH ADDITIONAL REINFORCEMENT

Exhibit-2022-4.2



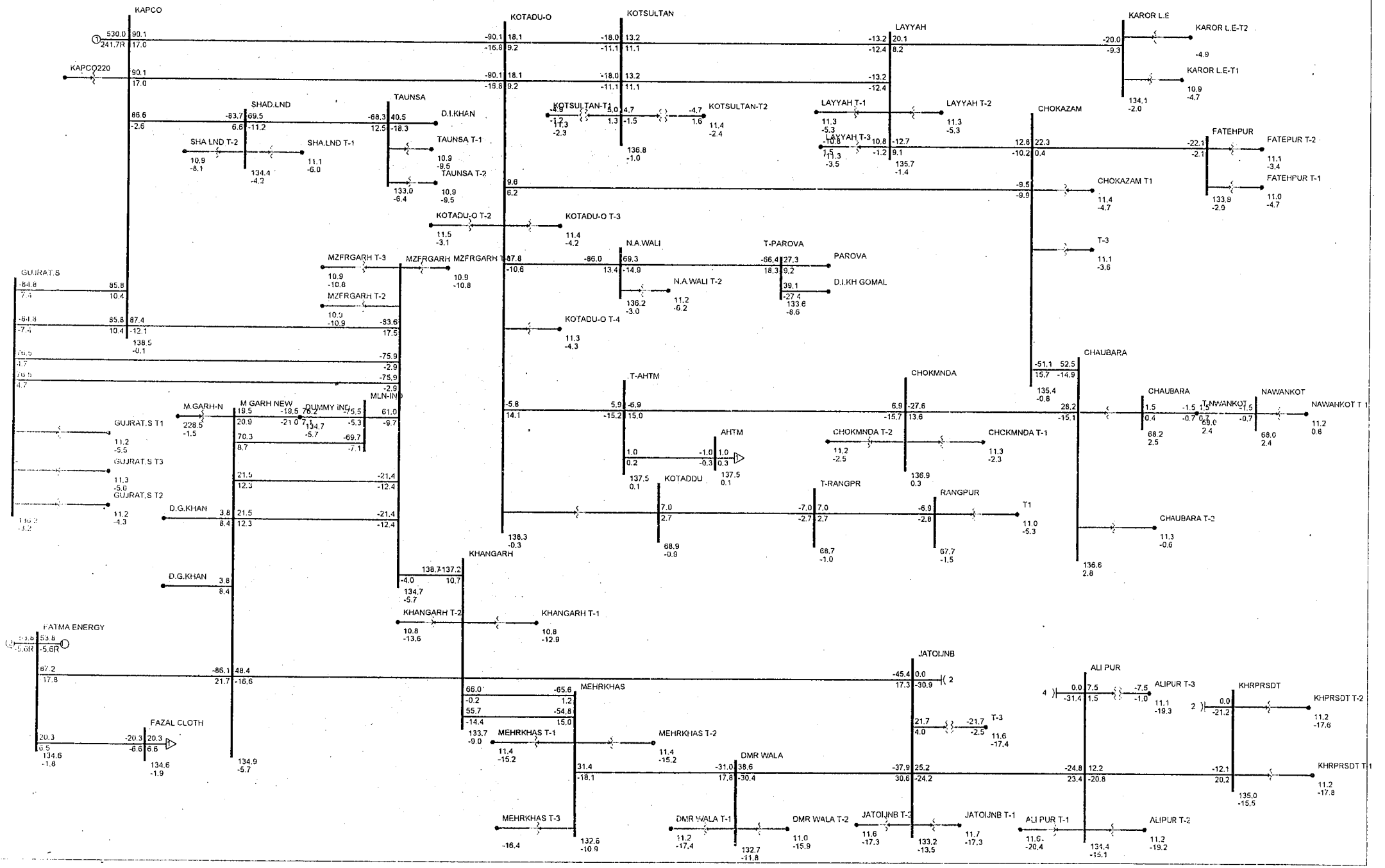
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2022 WITH ADDITIONAL REINFORCEMENT

Exhibit-2022-4.3



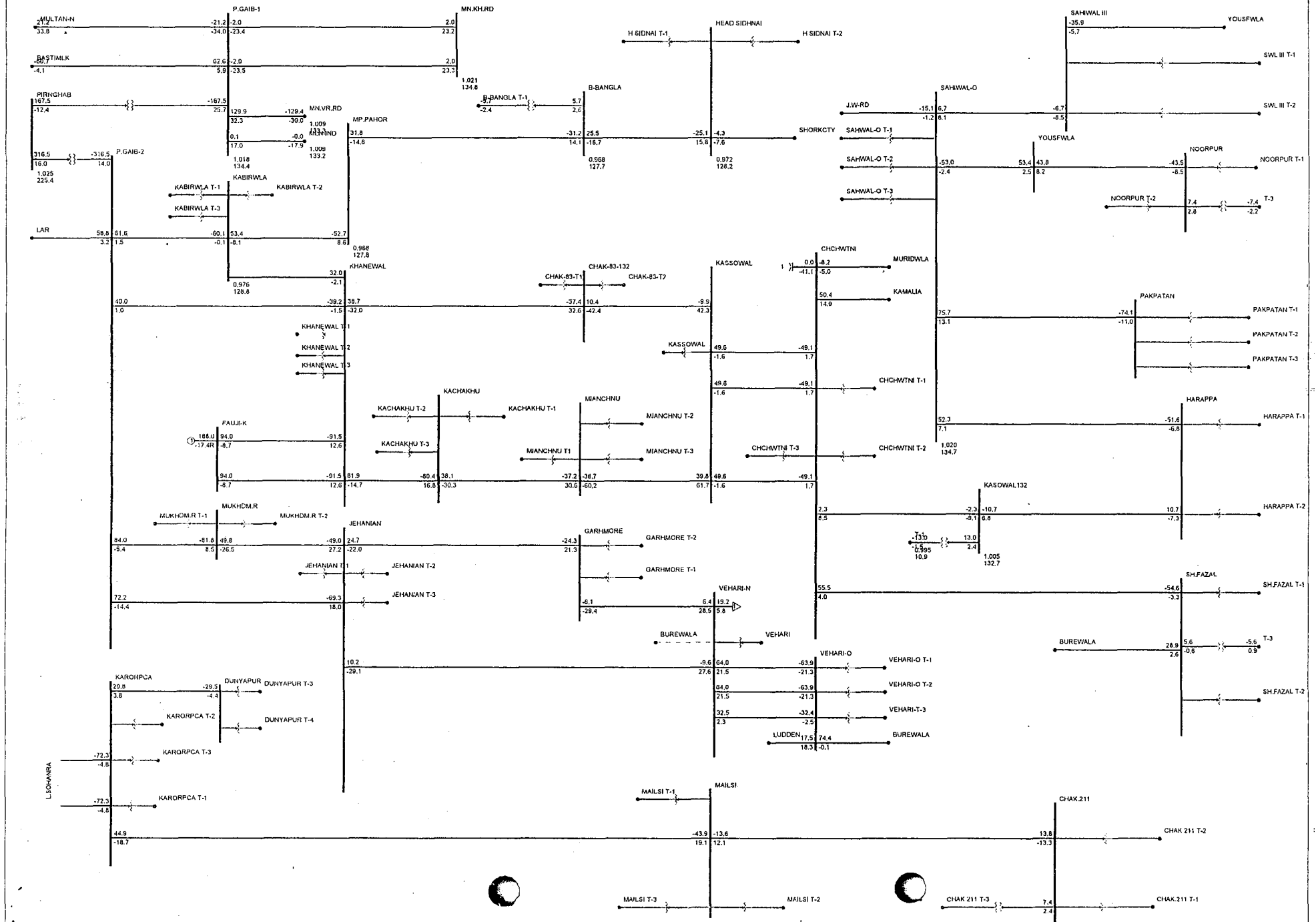
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2022 WITH ADDITIONAL REINFORCEMENT

Exhibit-2022-4.4



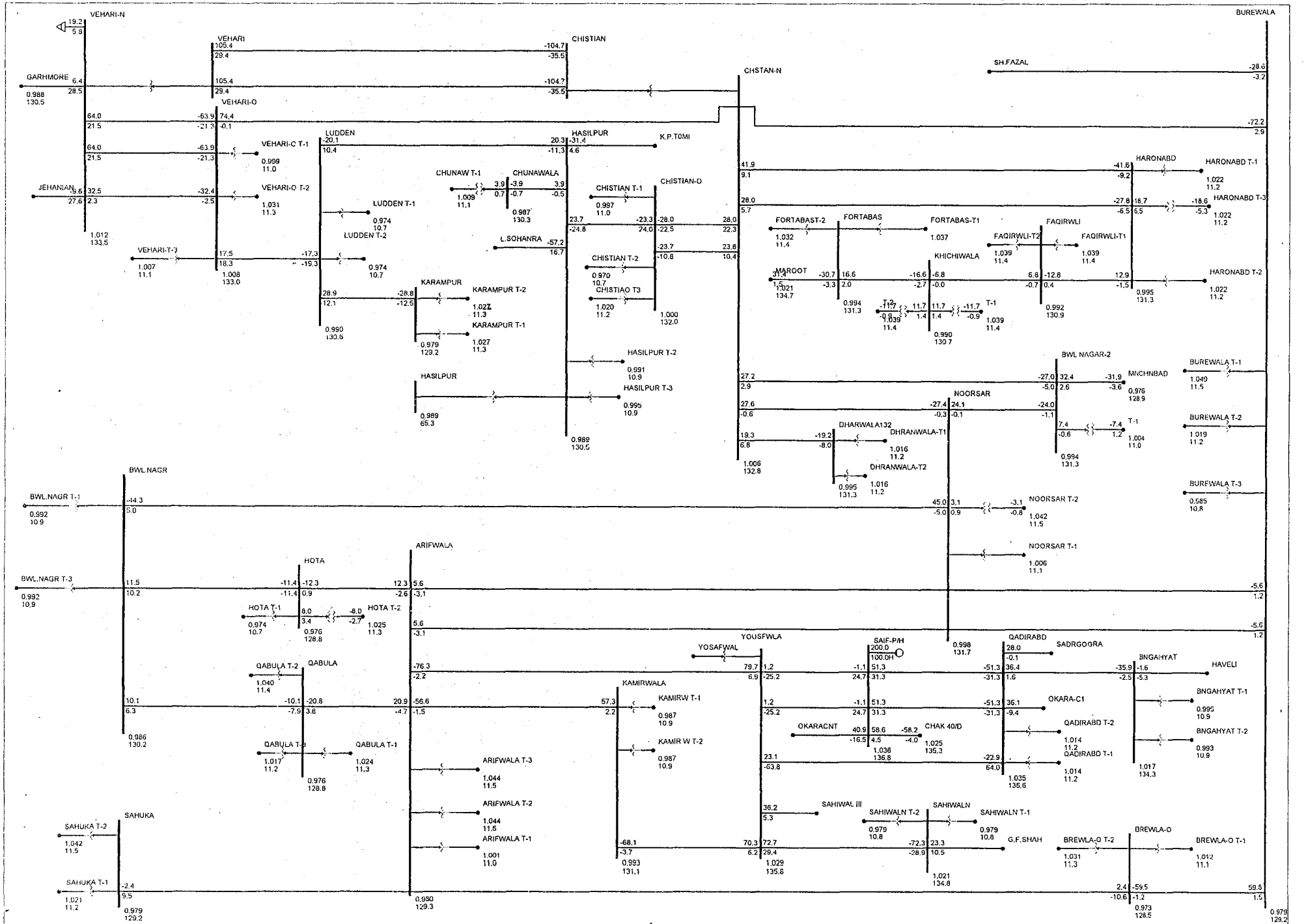
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2022 WITH ADDITIONAL REINFORCEMENT

Exhibit-2022-4.5



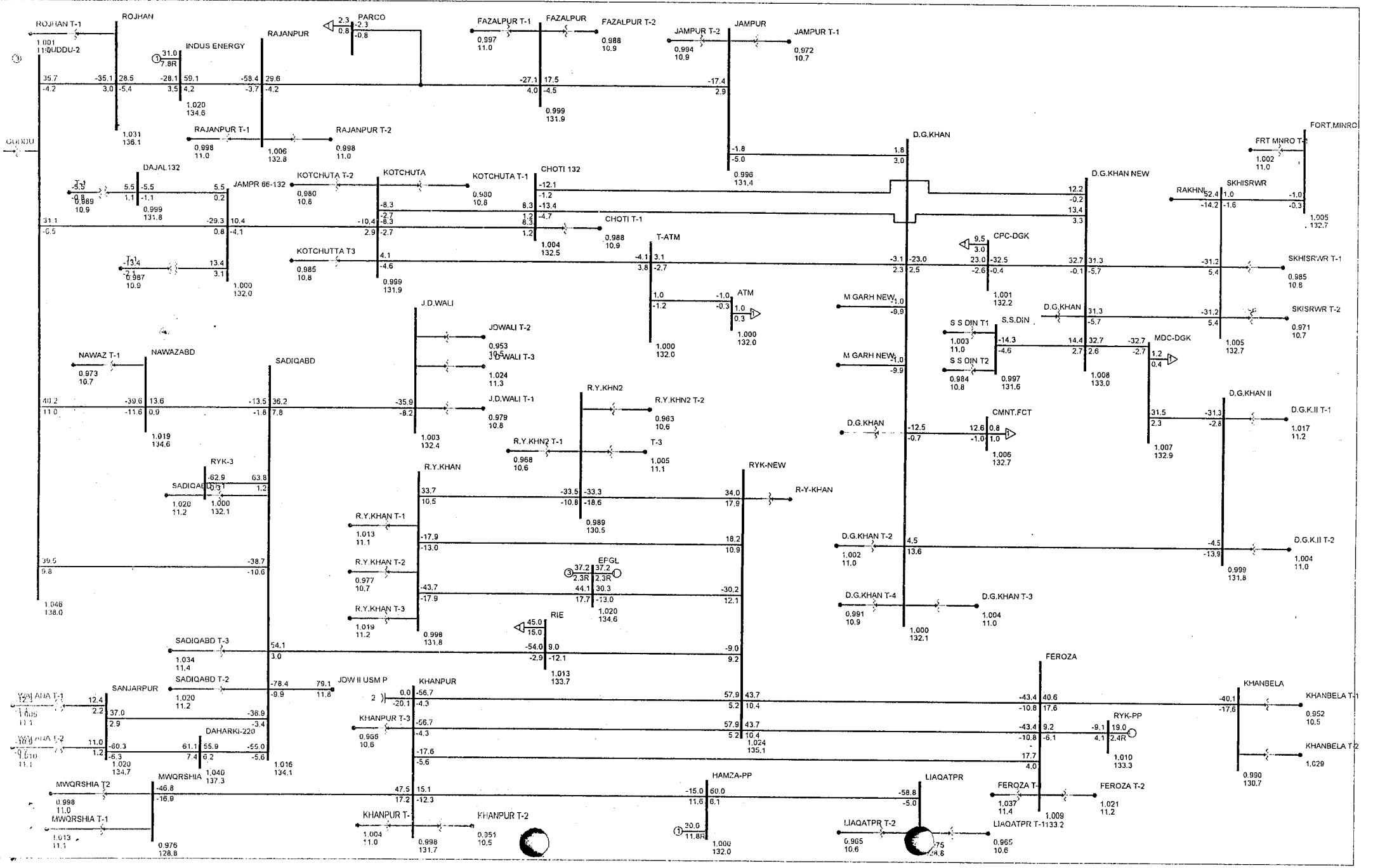
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2022 WITH ADDITIONAL REINFORCEMENT

Exhibit-2022-4.6



LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2023 WITHOUT ADDITIONAL REINFORCEMENT

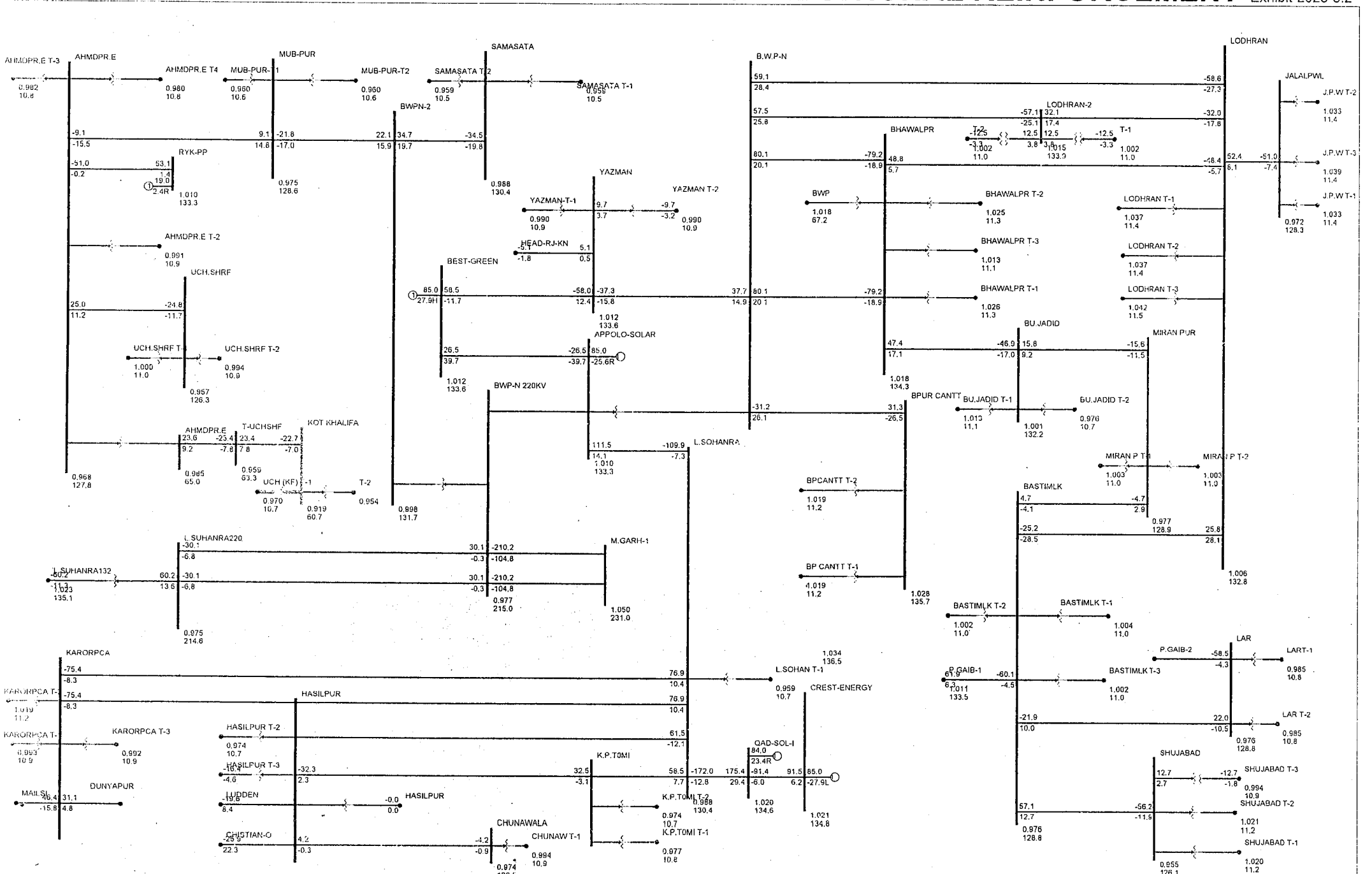
Exhibit-2023-5.1



LOAD FLOW FOR DIIP

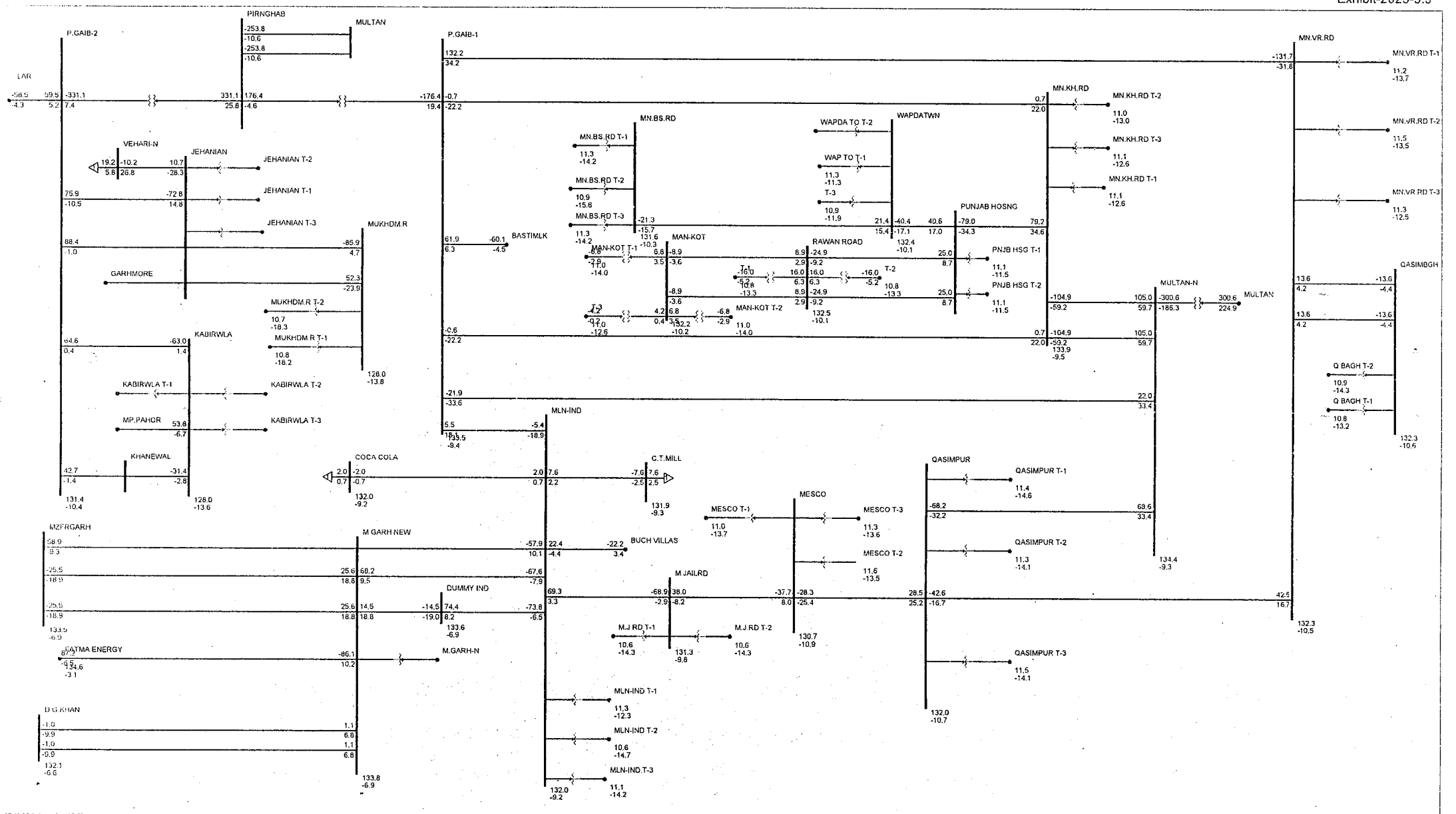
MEPCO PEAK LOAD CASE 2023 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2023-5.2



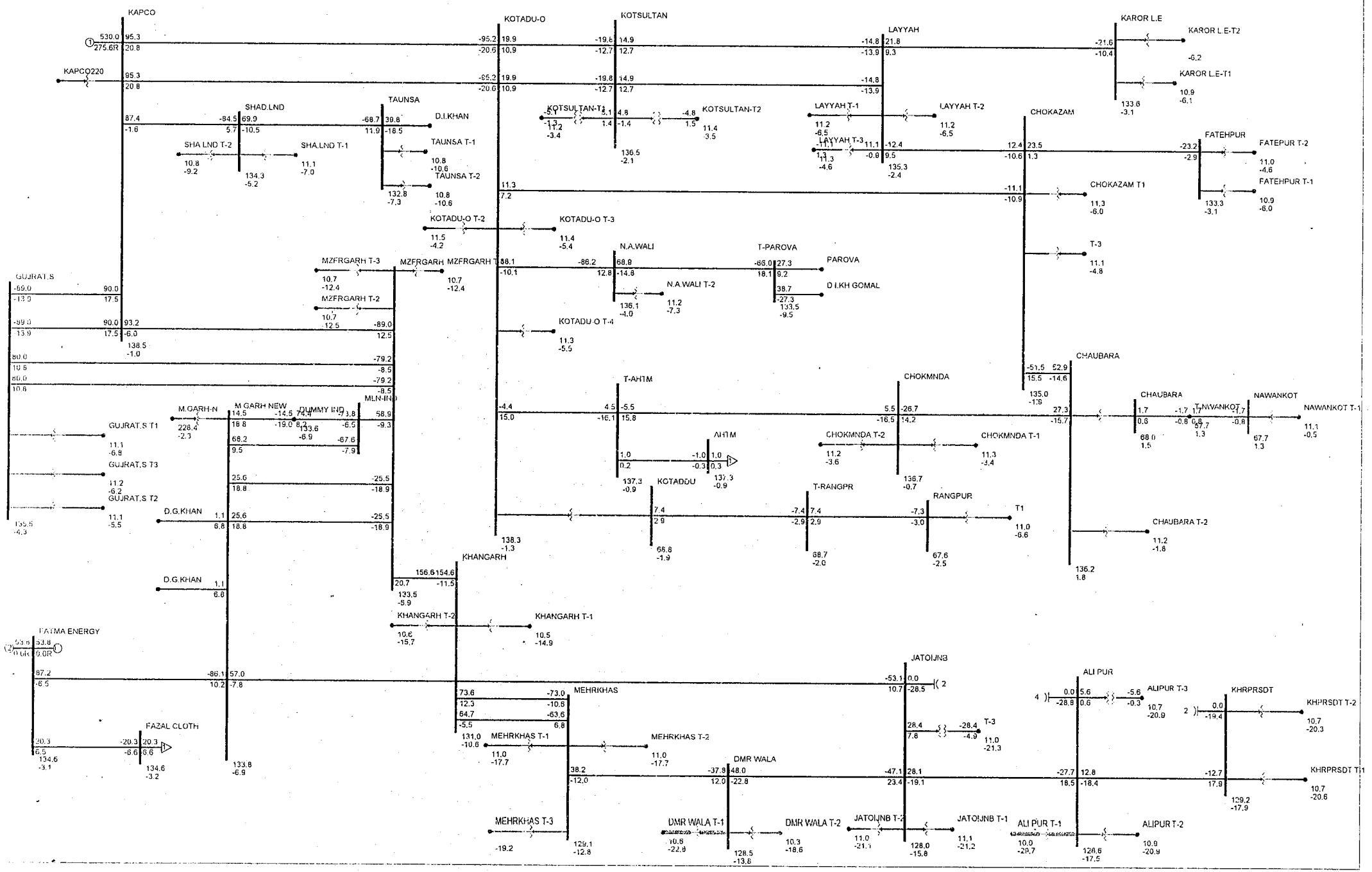
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2023 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2023-5.3



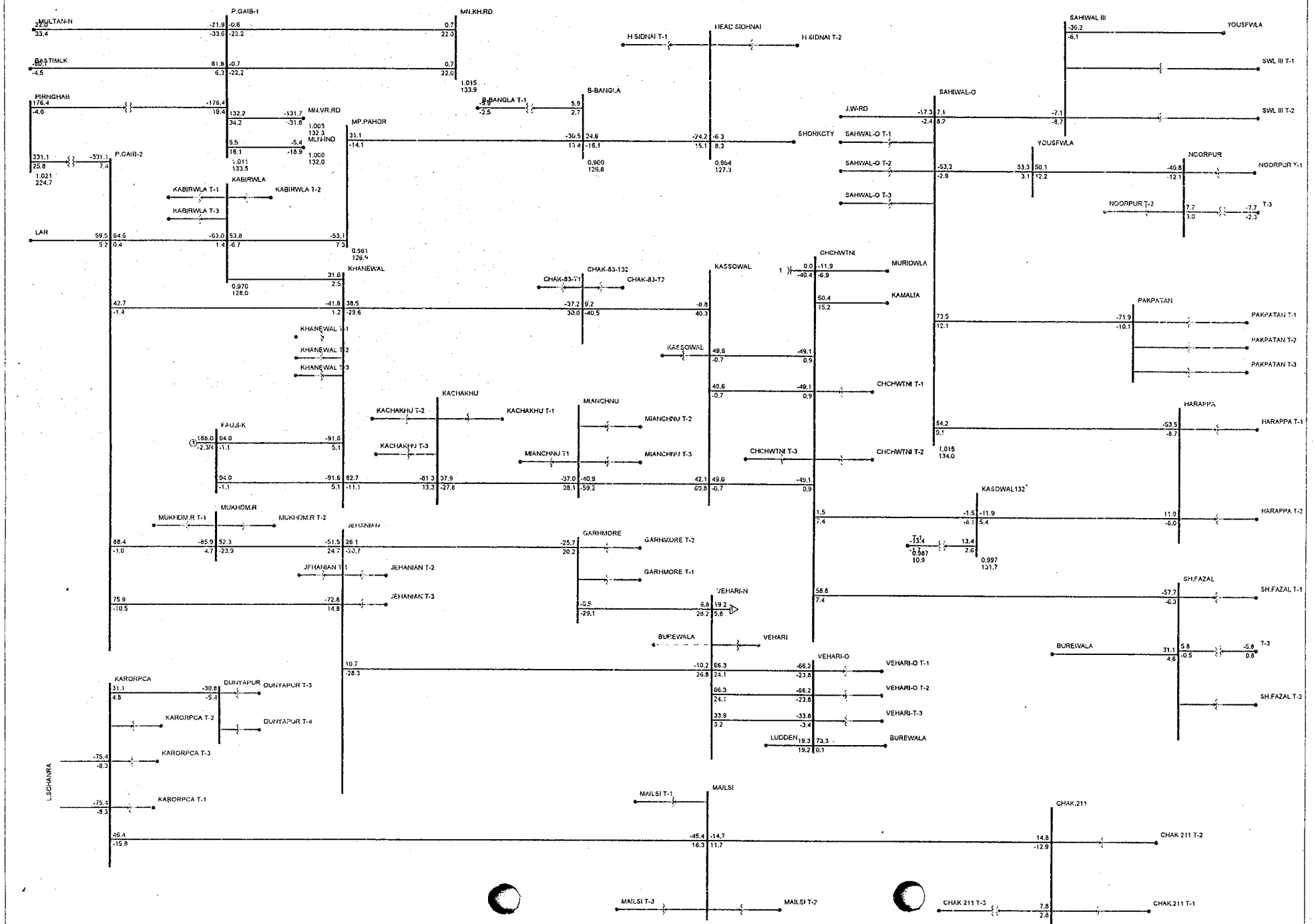
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2023 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2023-5.4



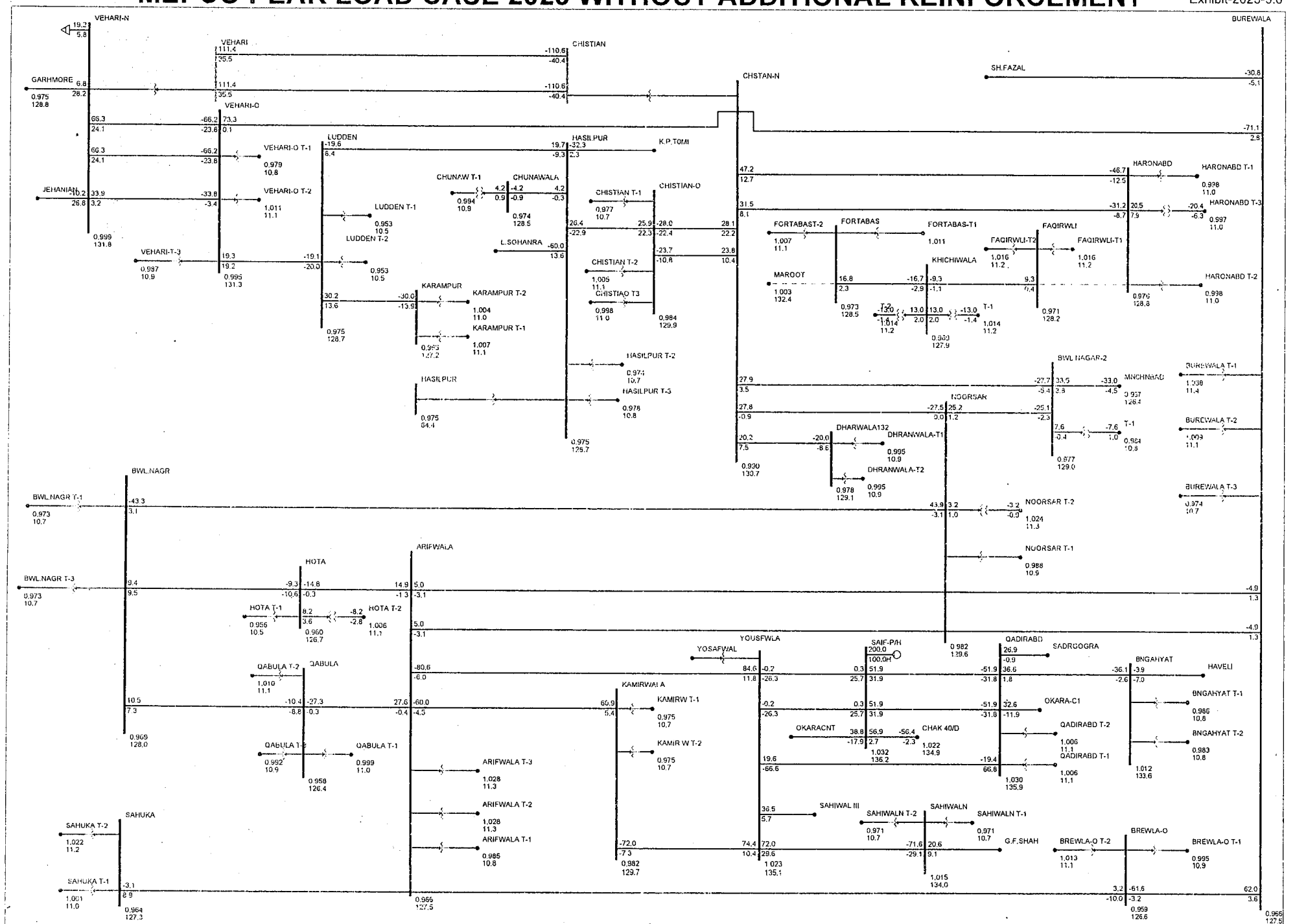
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2023 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2023-5.5



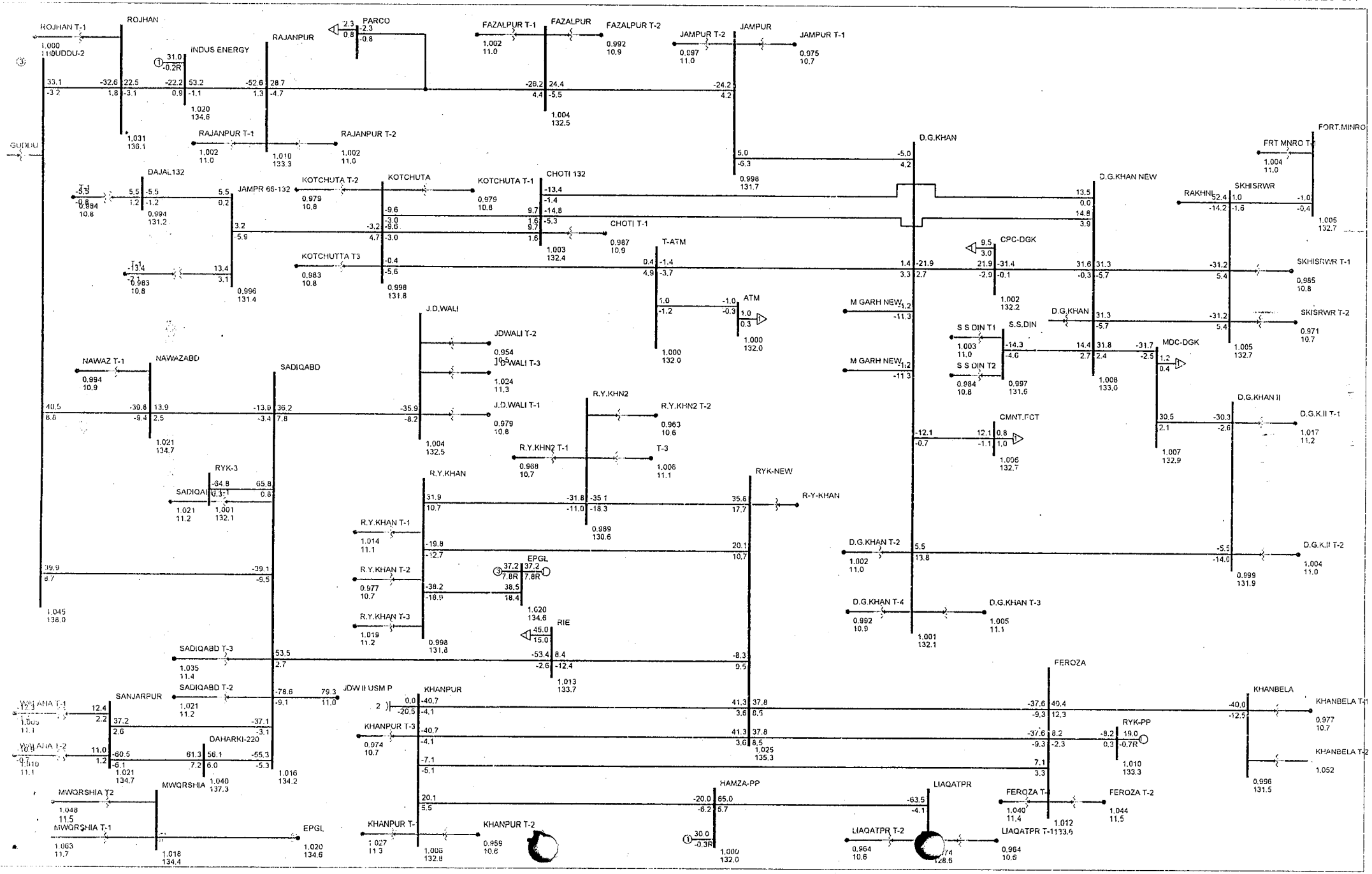
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2023 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2023-5.6



LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2023 WITH ADDITIONAL REINFORCEMENT

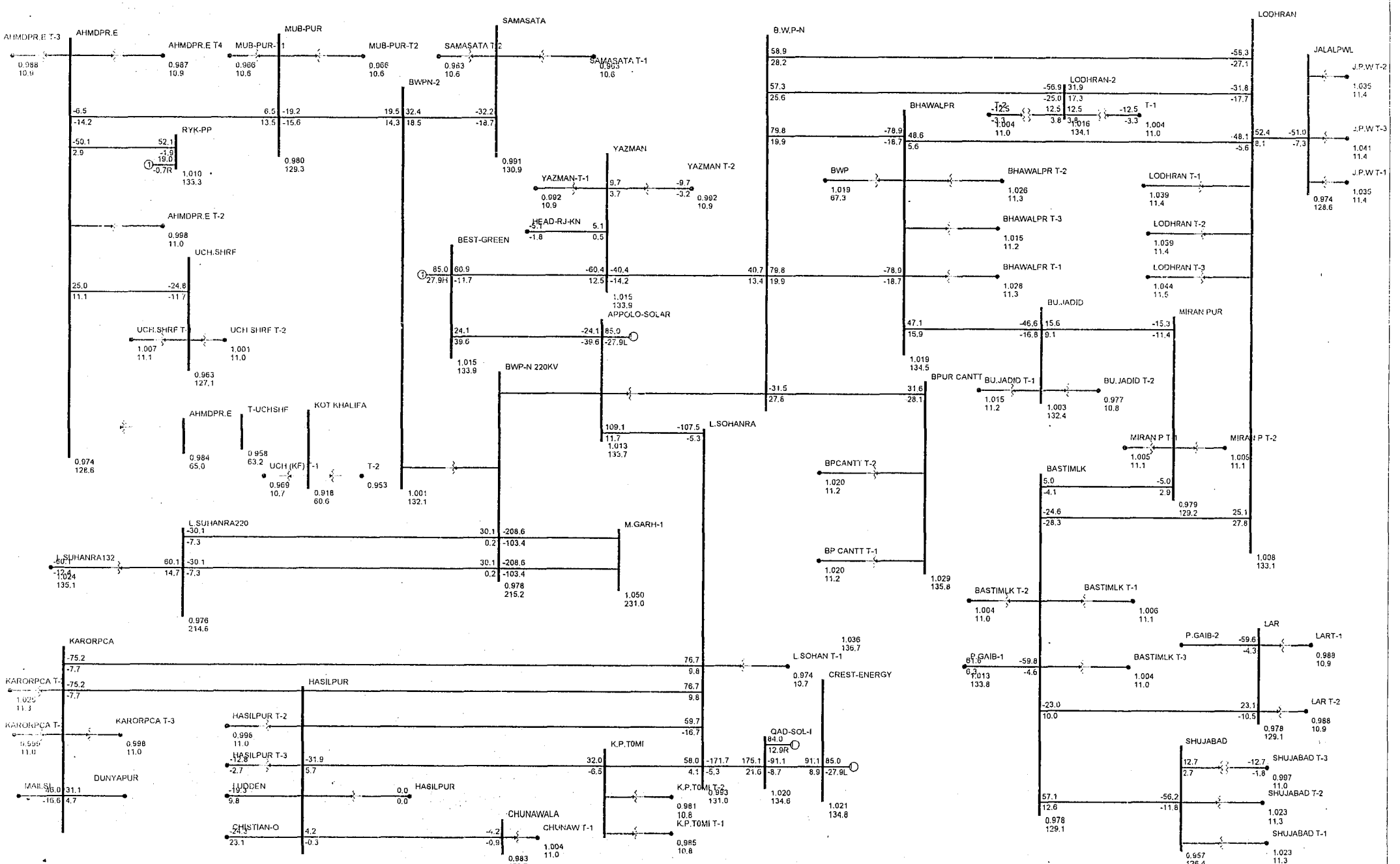
Exhibit-2023-6.1



LOAD FLOW FOR DIII

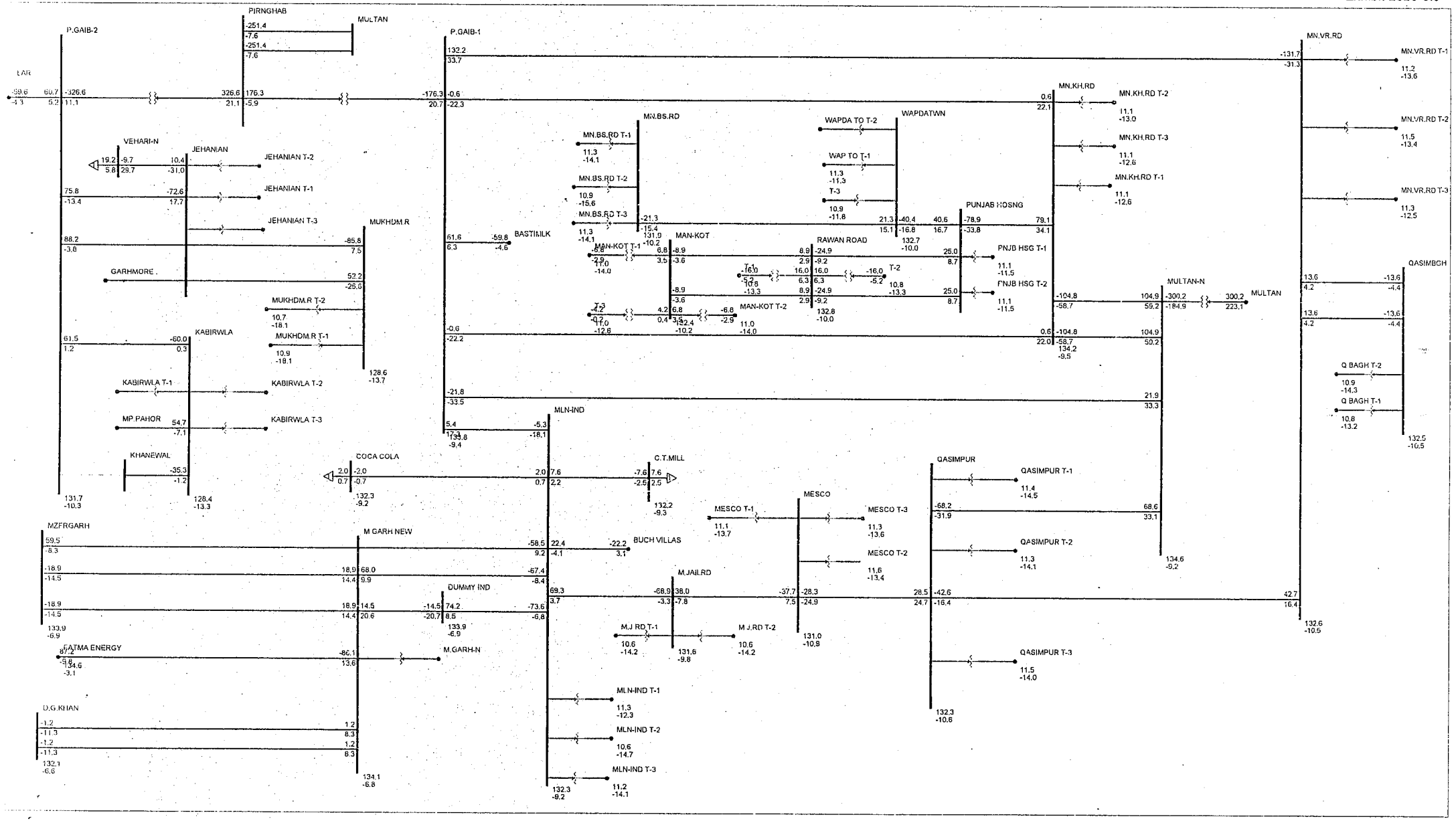
MEPCO PEAK LOAD CASE 2023 WITH ADDITIONAL REINFORCEMENT

Exhibit-2023-6.2



LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2023 WITH ADDITIONAL REINFORCEMENT

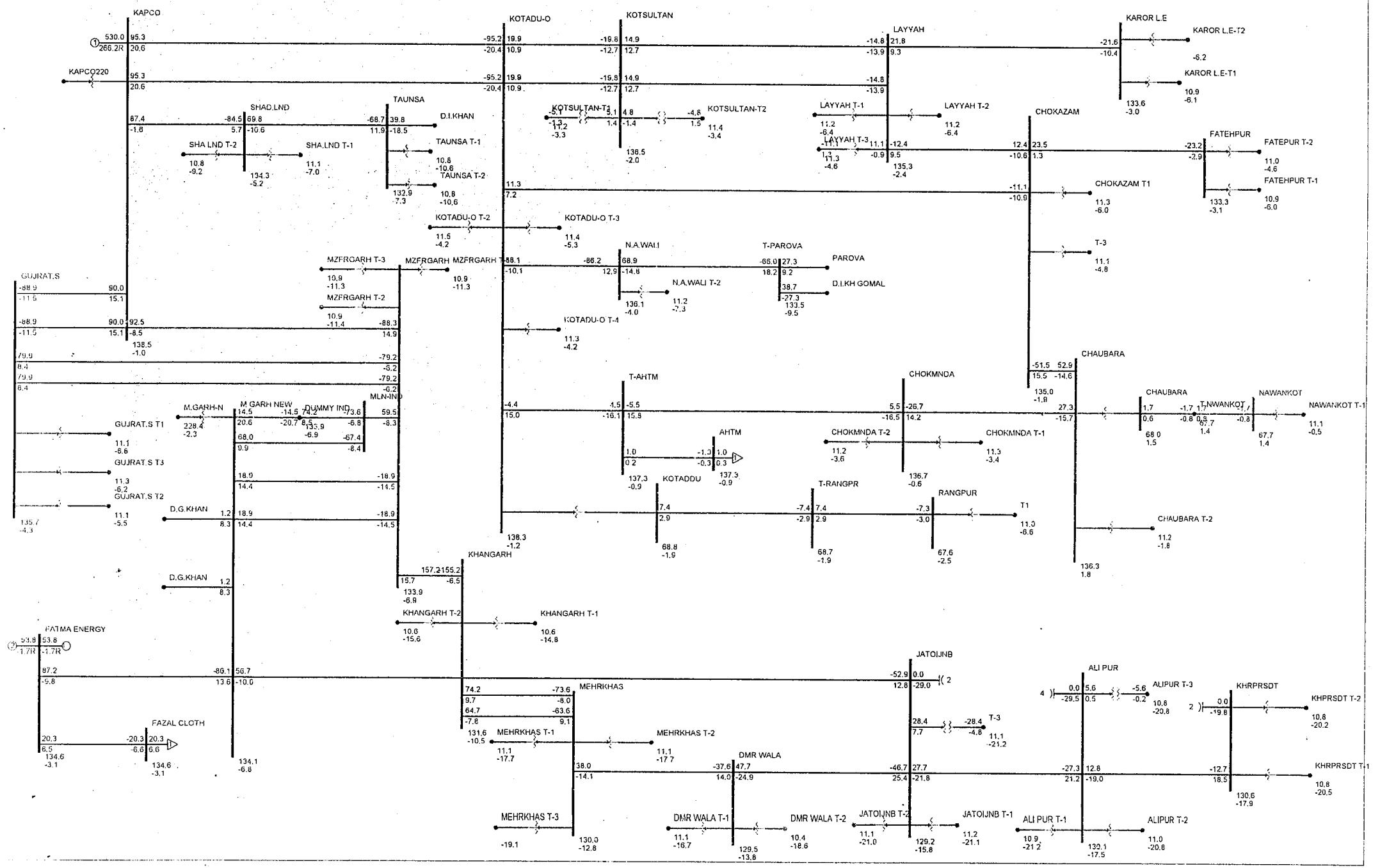
Exhibit-2023-6.3



LOAD FLOW FOR DIIP

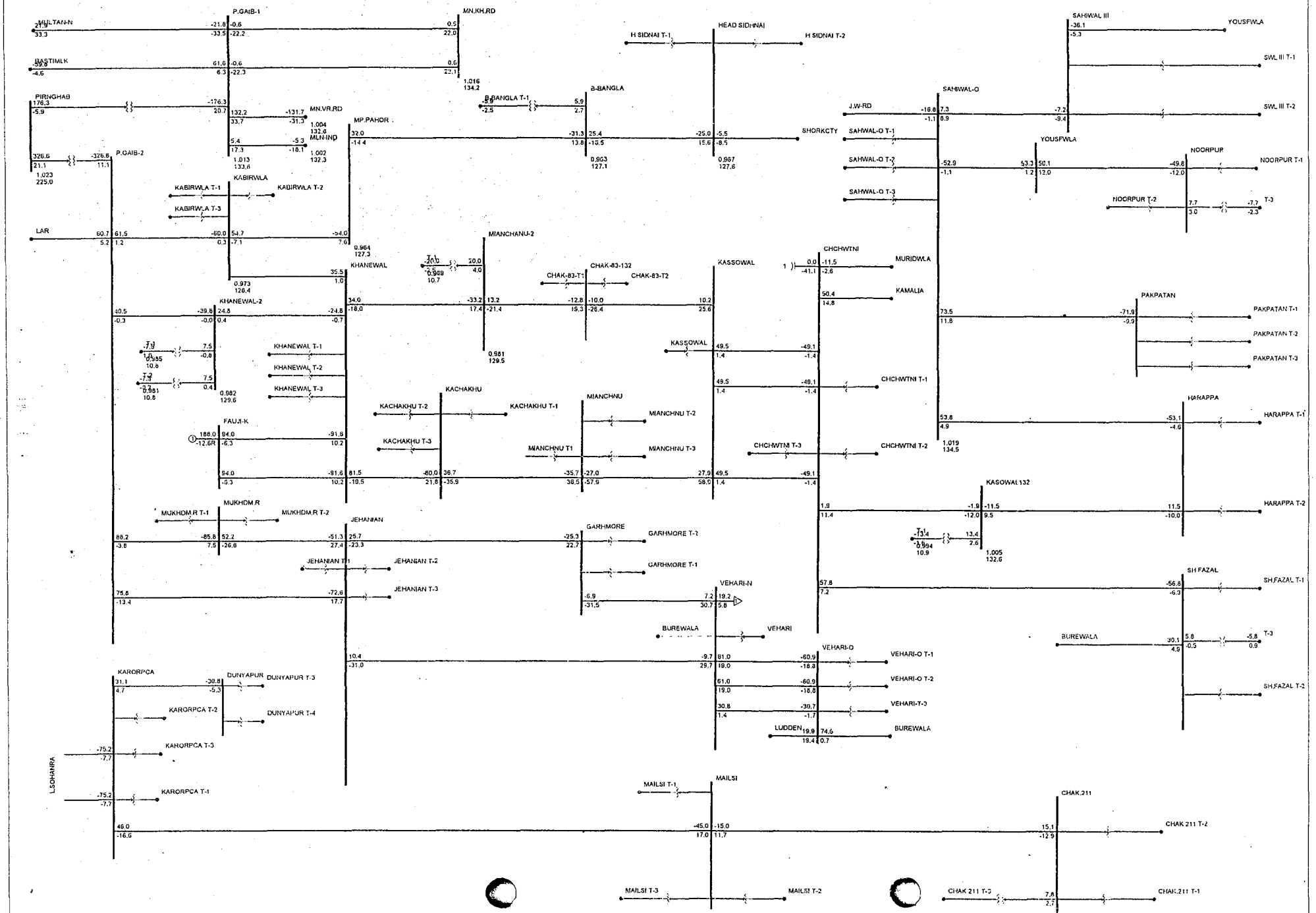
MEPCO PEAK LOAD CASE 2023 WITH ADDITIONAL REINFORCEMENT

Exhibit-2023-6.4



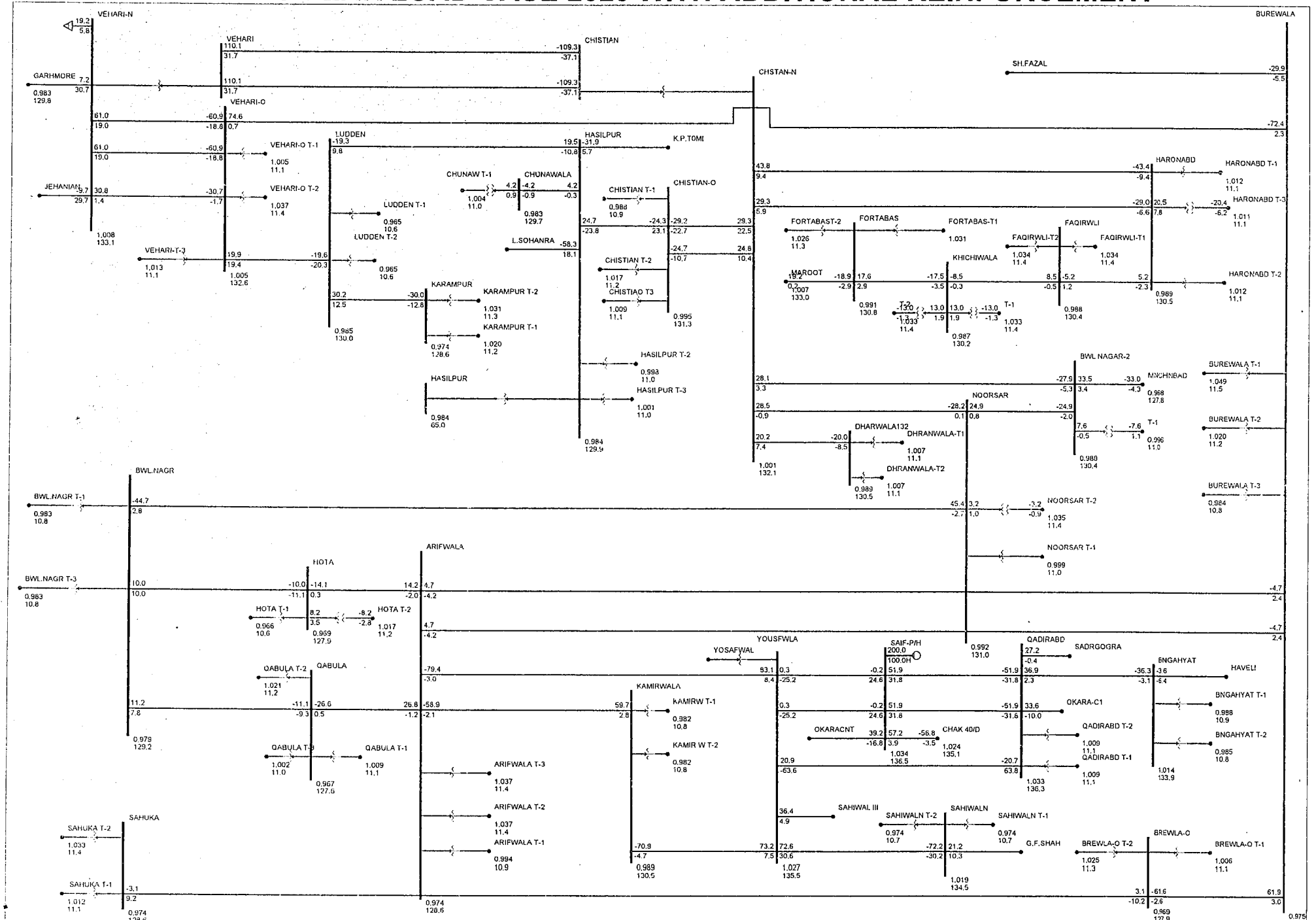
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2023 WITH ADDITIONAL REINFORCEMENT

Exhibit-2023-6.5



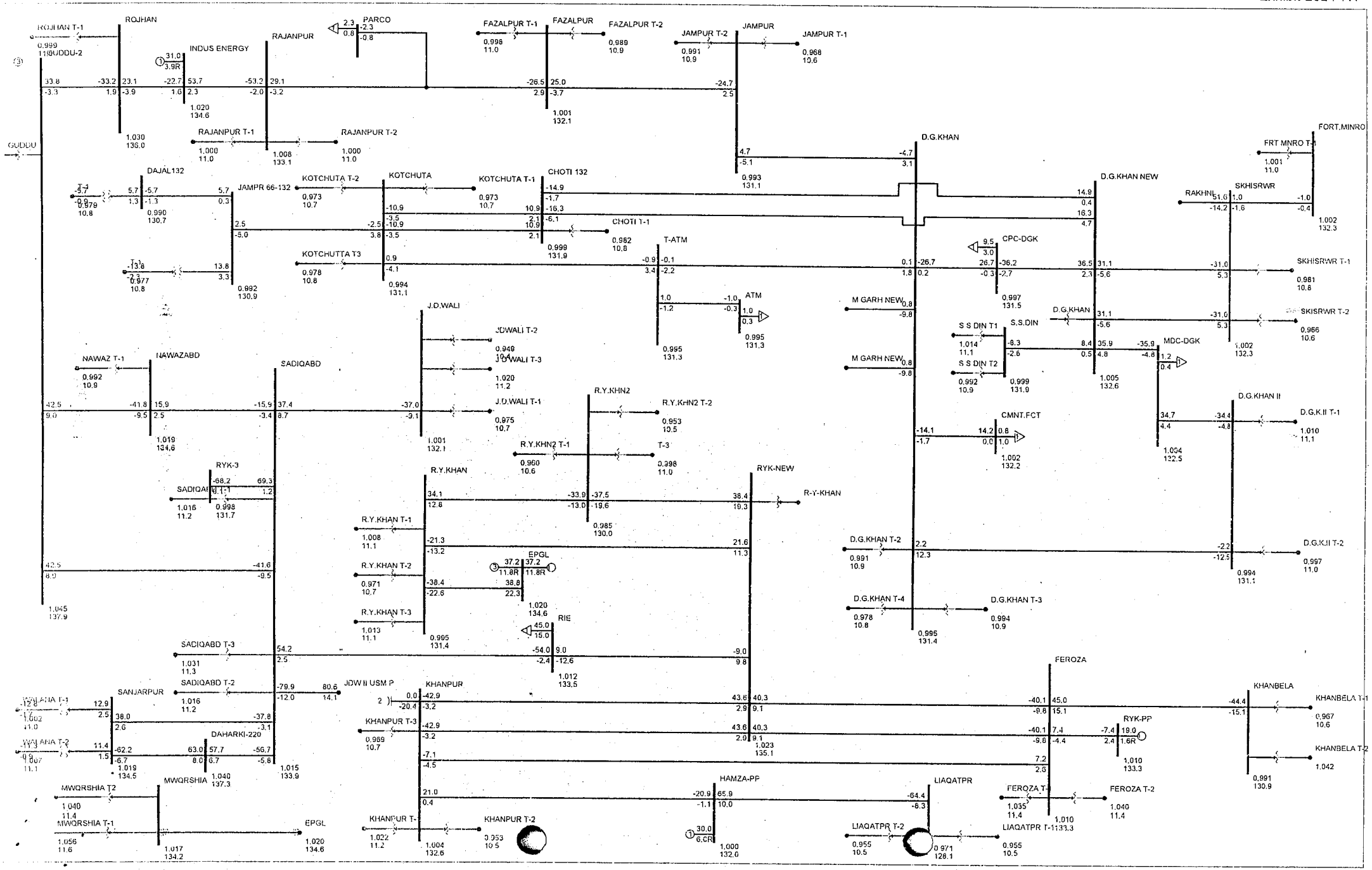
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2023 WITH ADDITIONAL REINFORCEMENT

Exhibit-2023-6.6



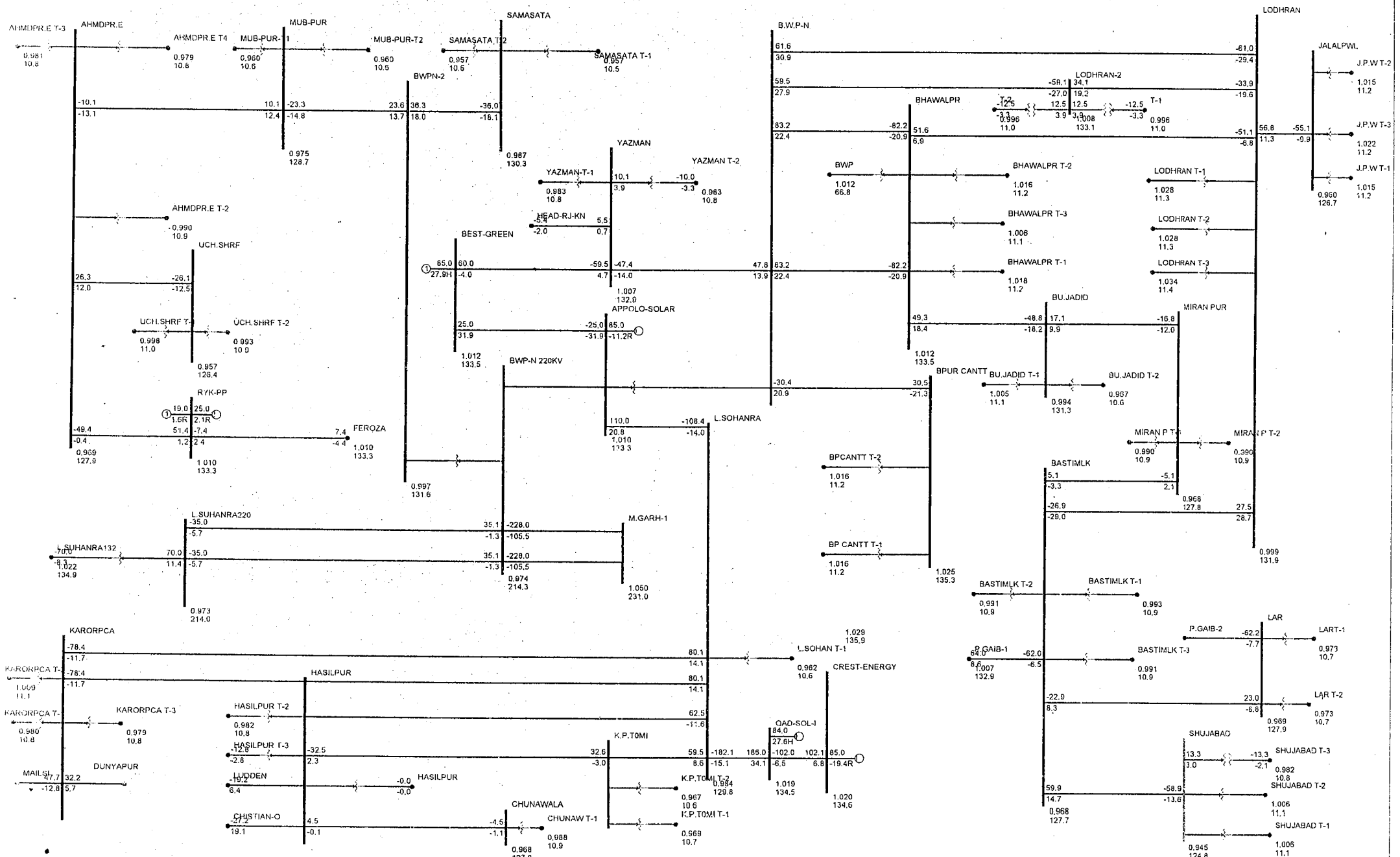
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2024 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2024-7.1



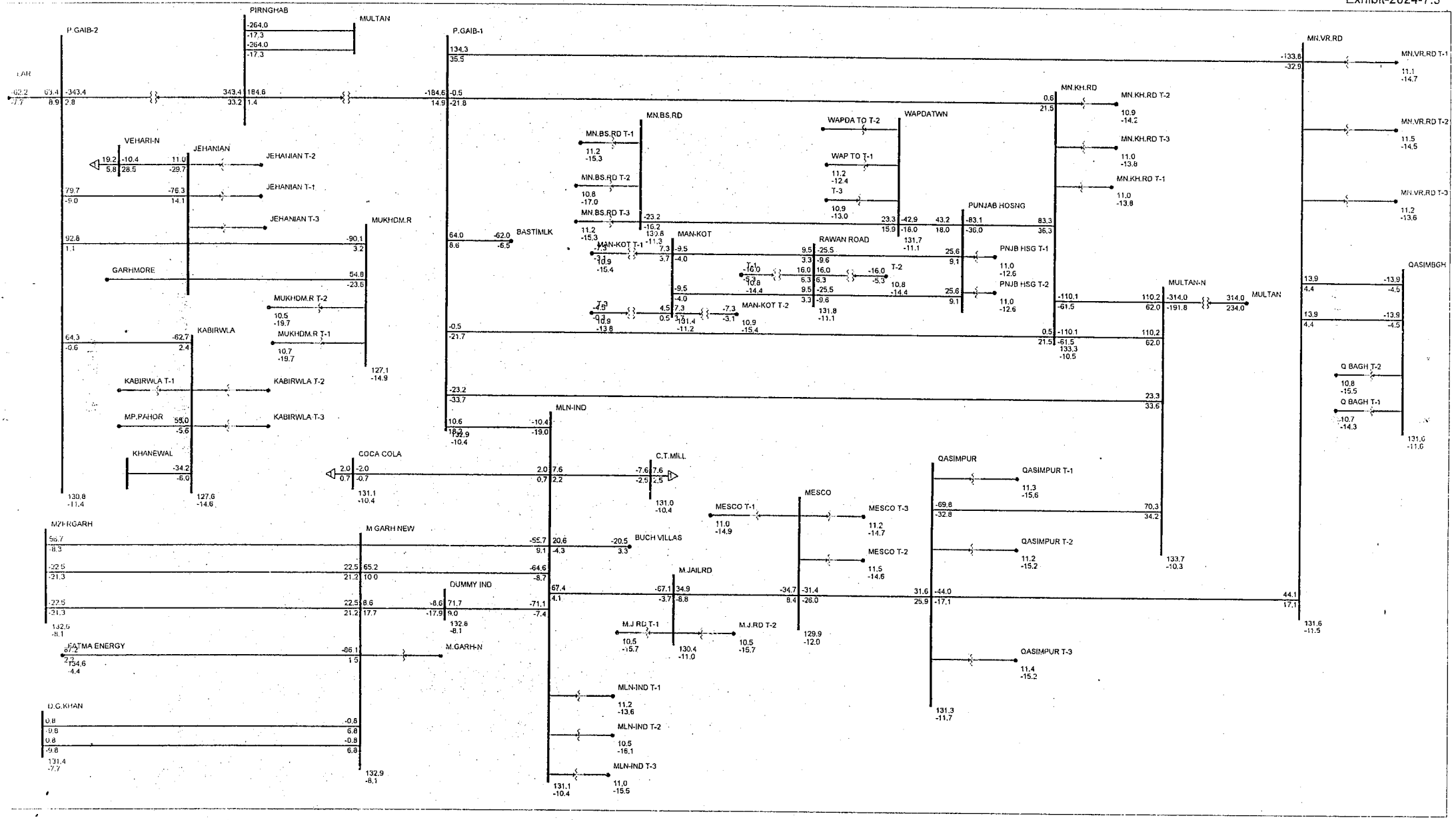
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2024 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2024-7.2



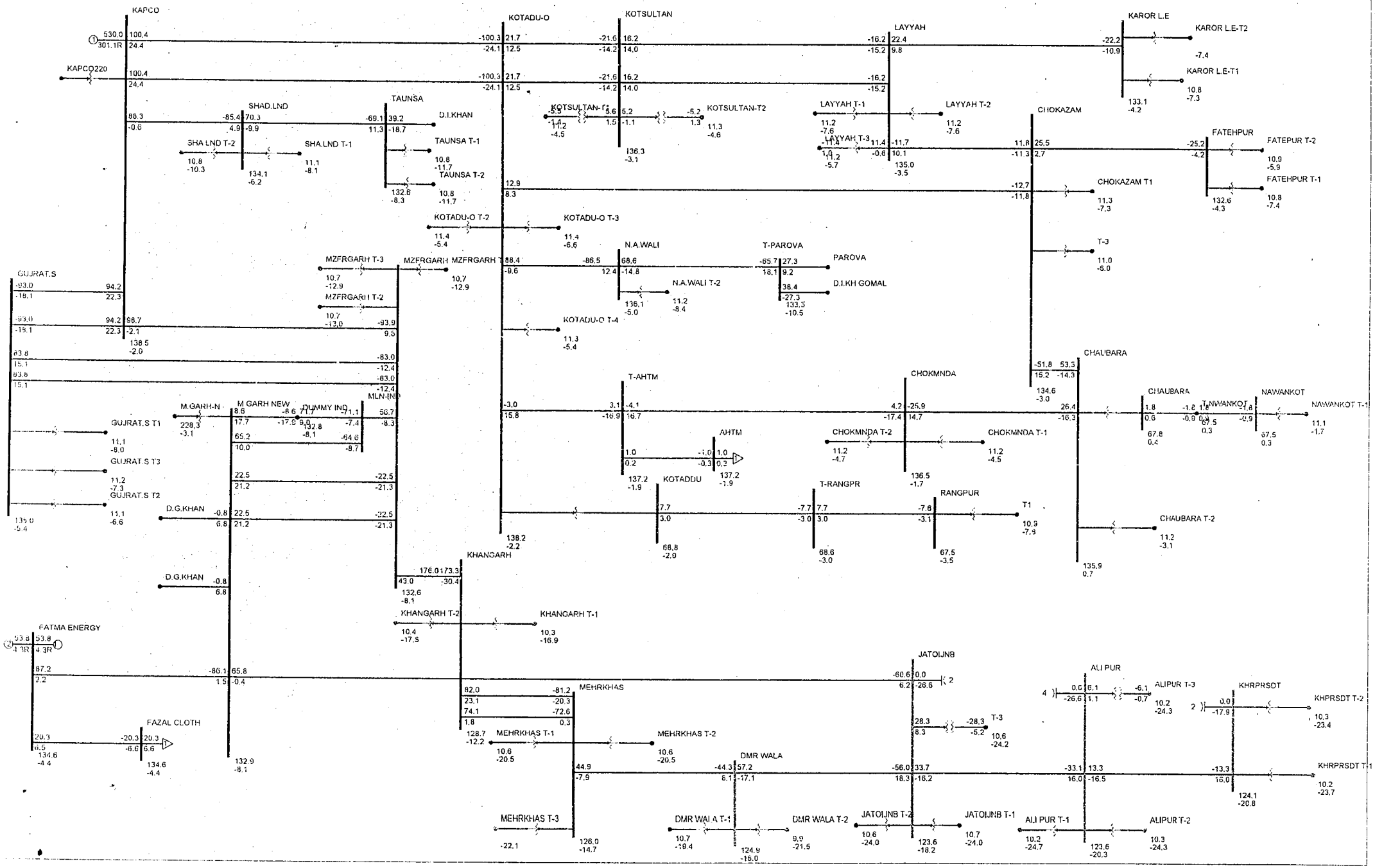
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2024 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2024-7.3



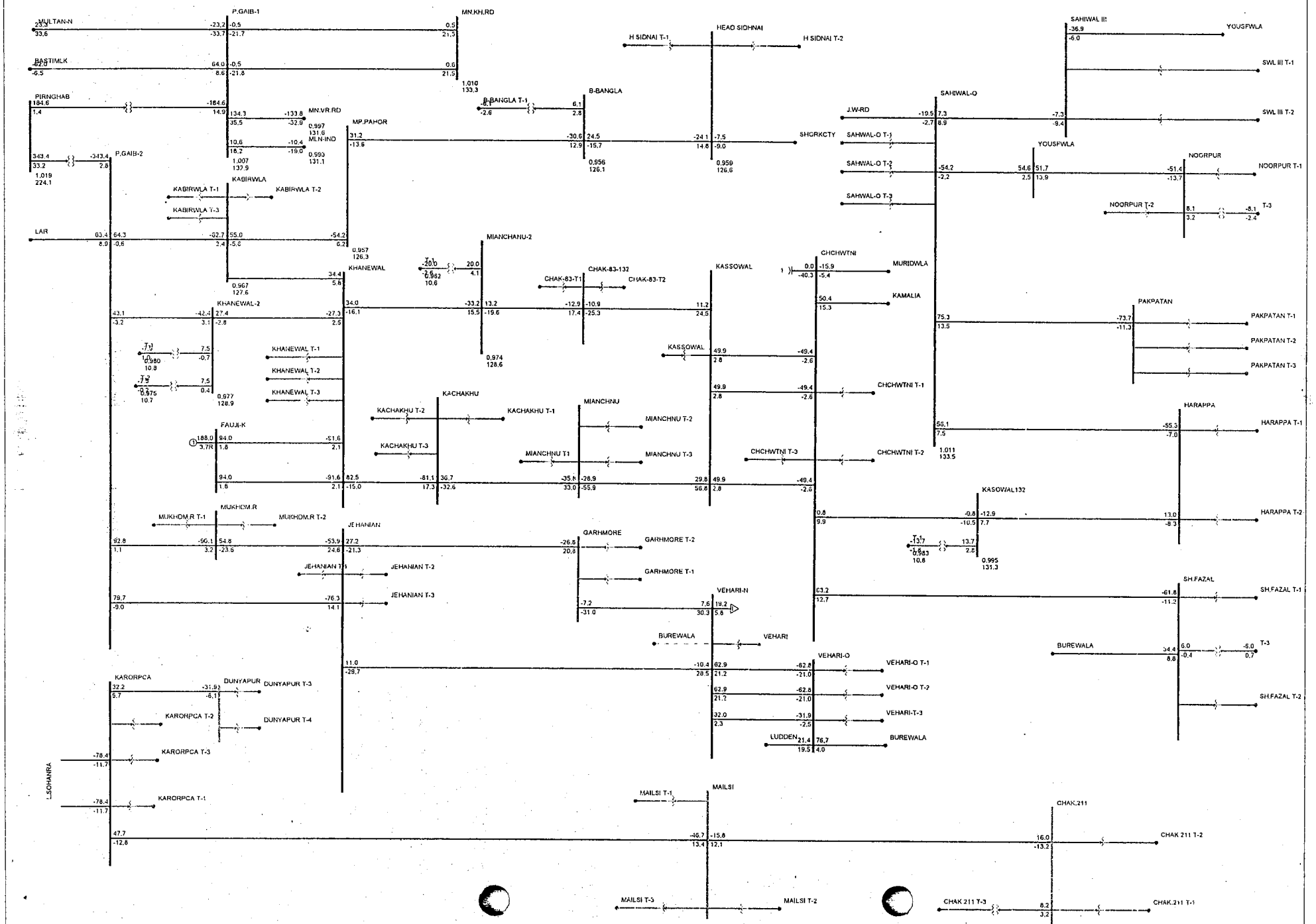
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2024 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2024-7.4



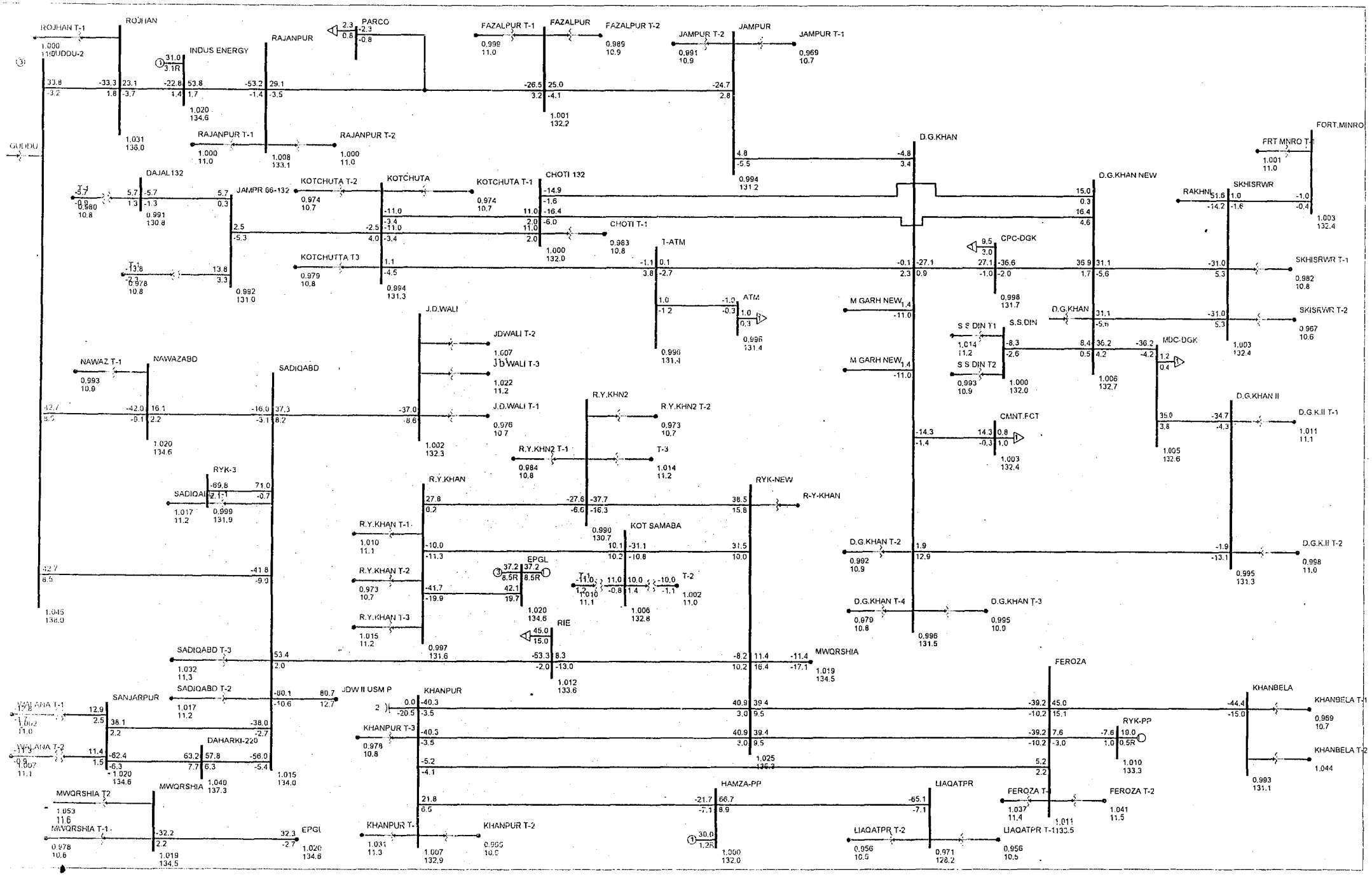
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2024 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2024-7.5



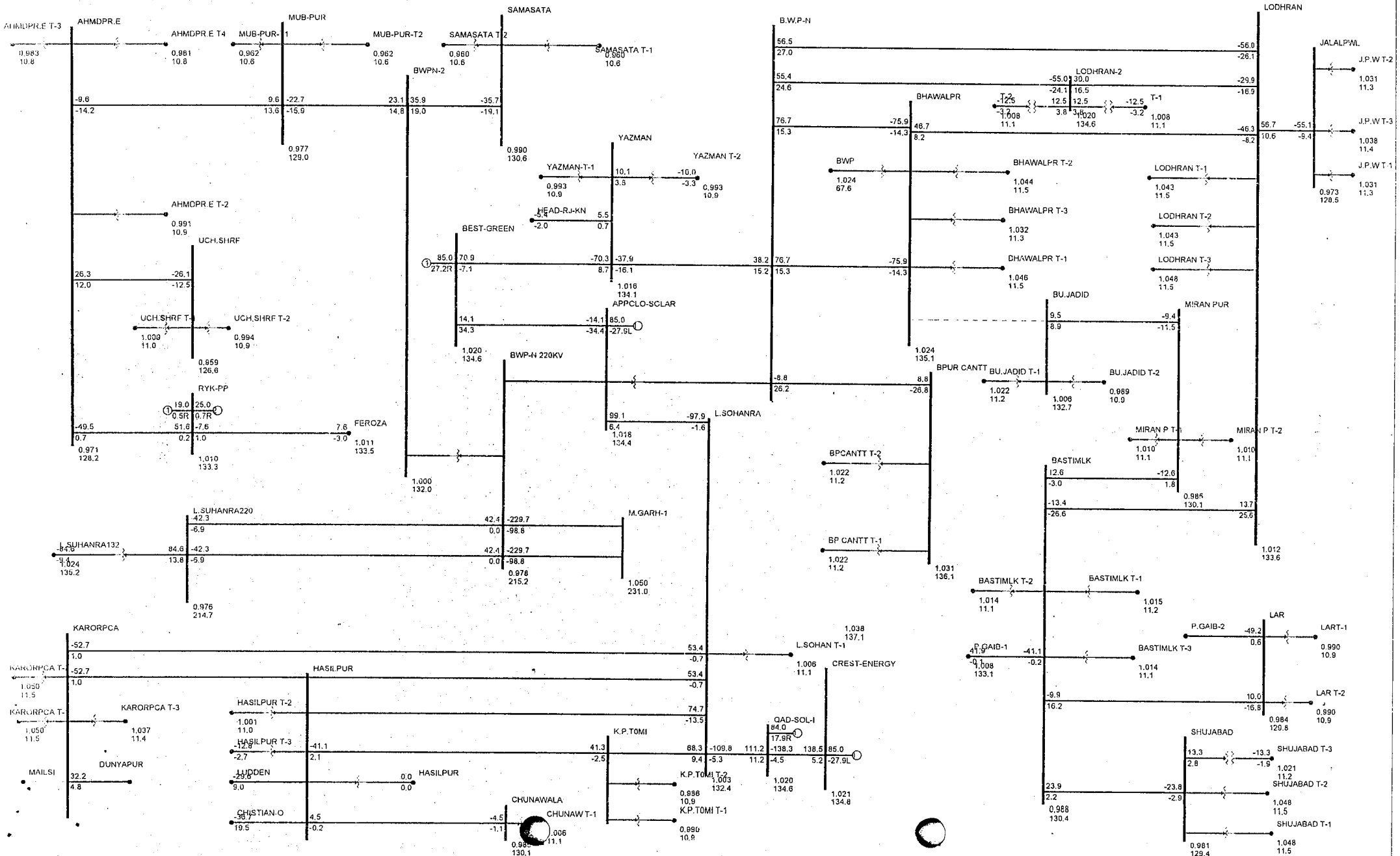
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2024 WITH ADDITIONAL REINFORCEMENT

Exhibit-2024-8.1



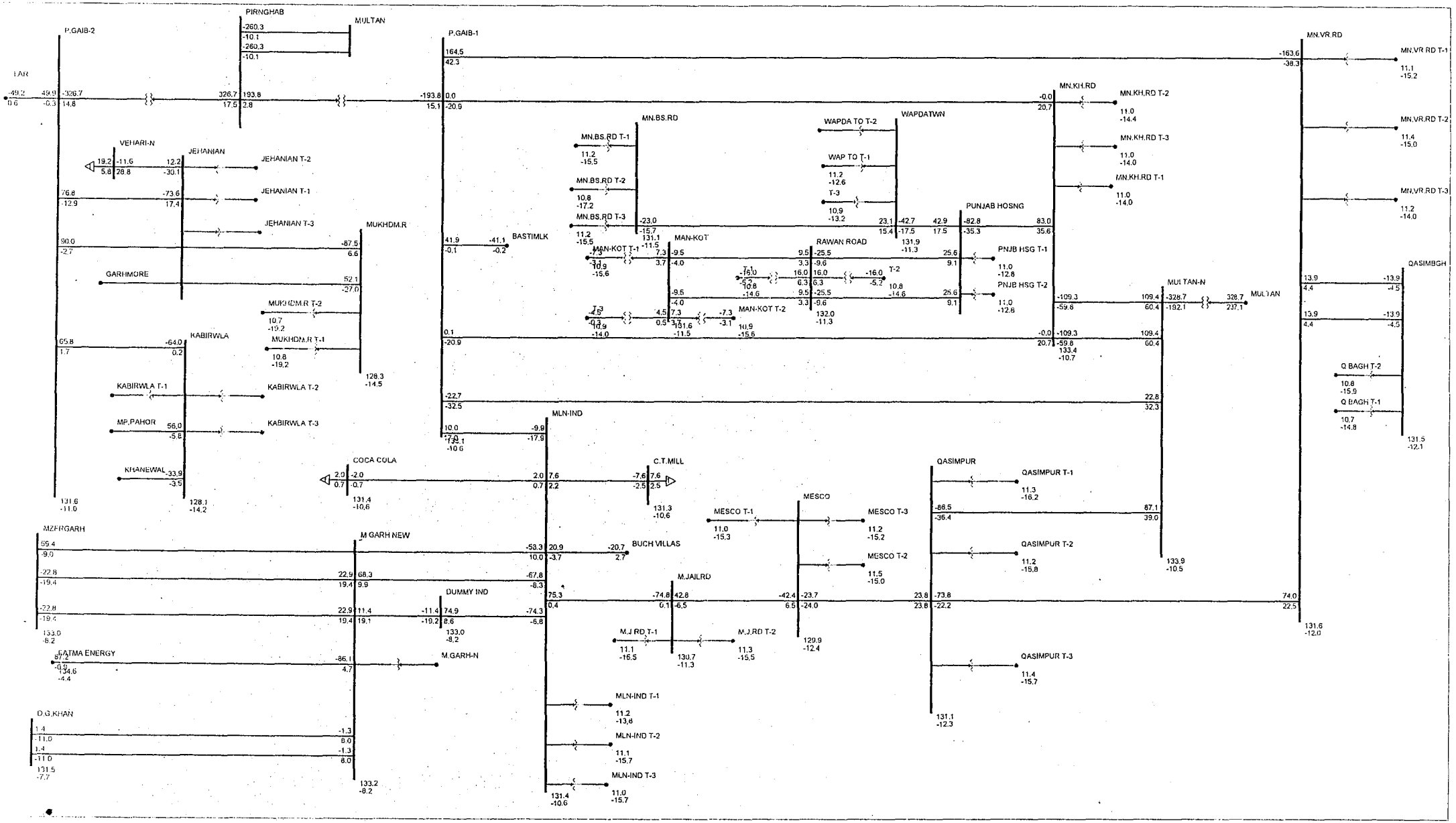
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2024 WITH ADDITIONAL REINFORCEMENT

Exhibit-2024-8.2



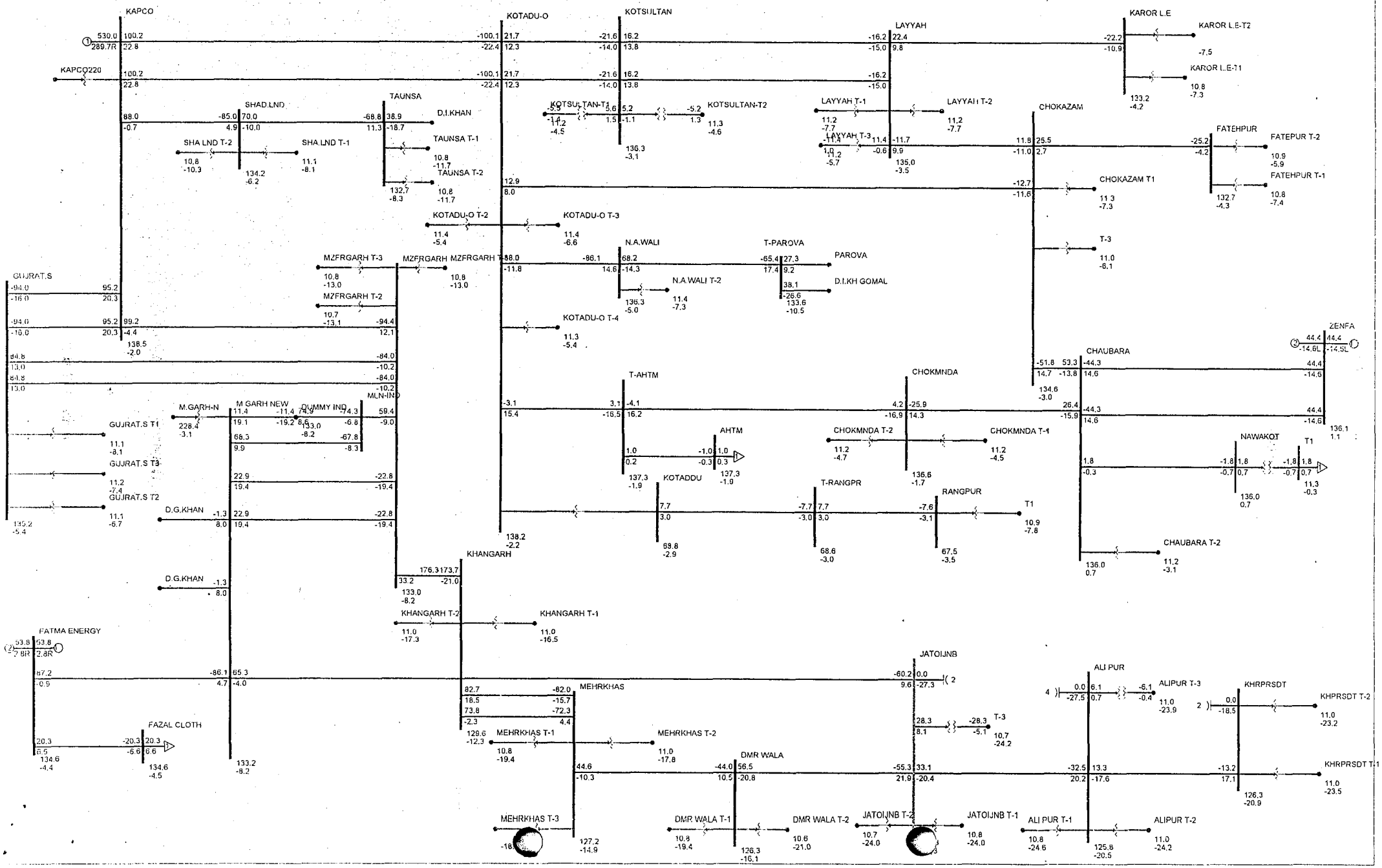
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2024 WITH ADDITIONAL REINFORCEMENT

Exhibit-2024-8.3



LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2024 WITH ADDITIONAL REINFORCEMENT

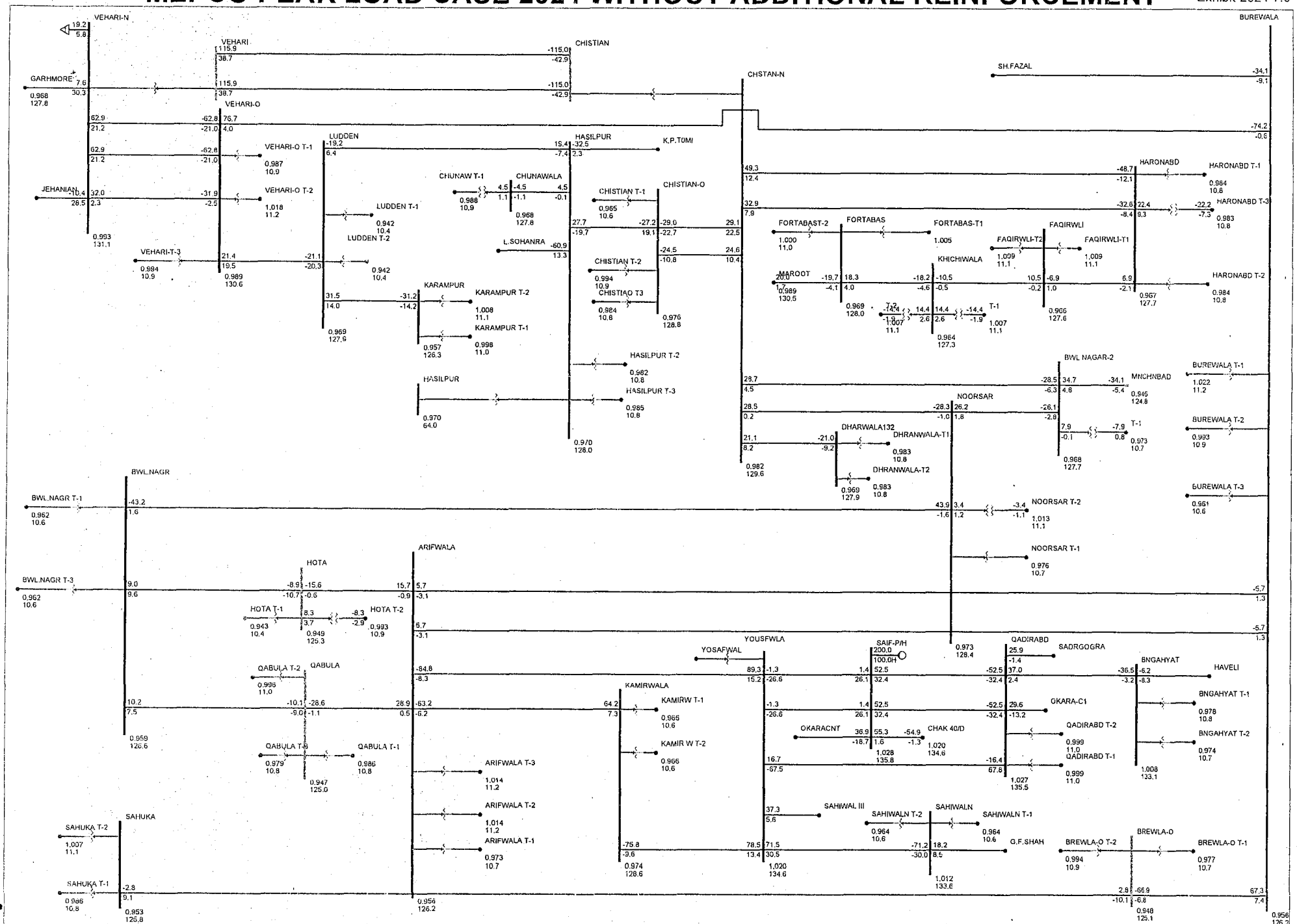
Exhibit-2024-8.4



LOAD FLOW FOR DIIP

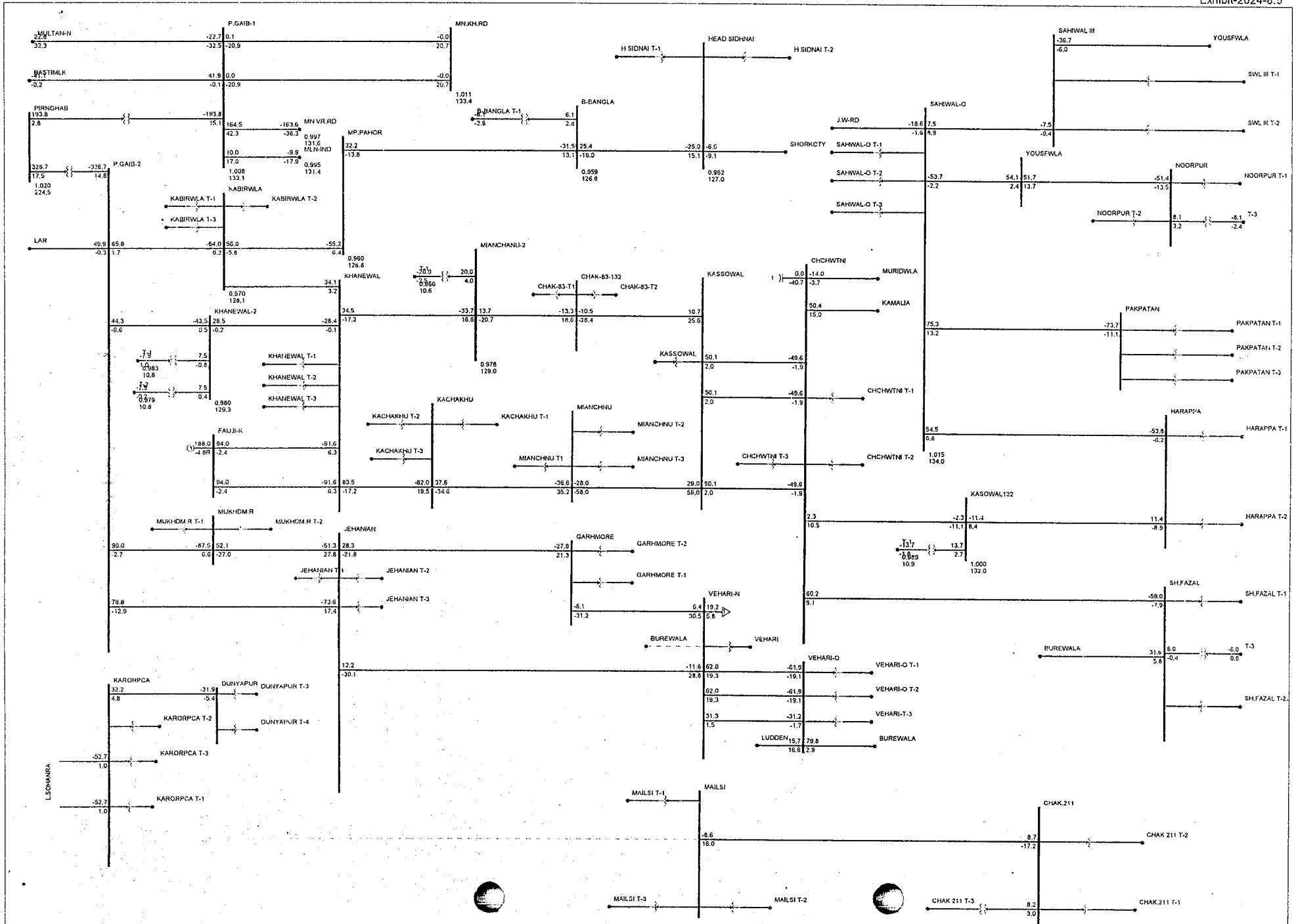
MEPCO PEAK LOAD CASE 2024 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2024-7.6



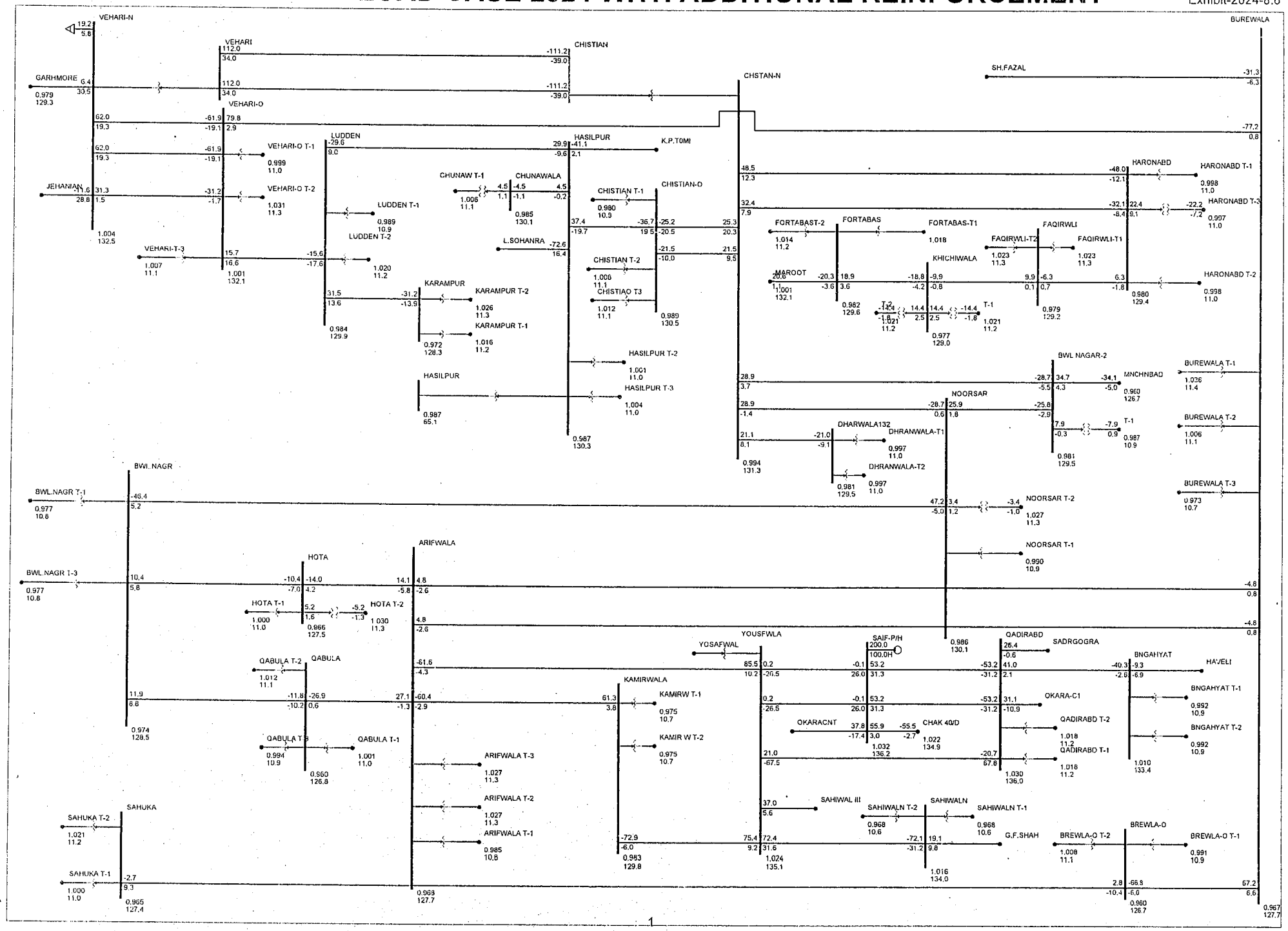
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2024 WITH ADDITIONAL REINFORCEMENT

Exhibit-2024-8.5



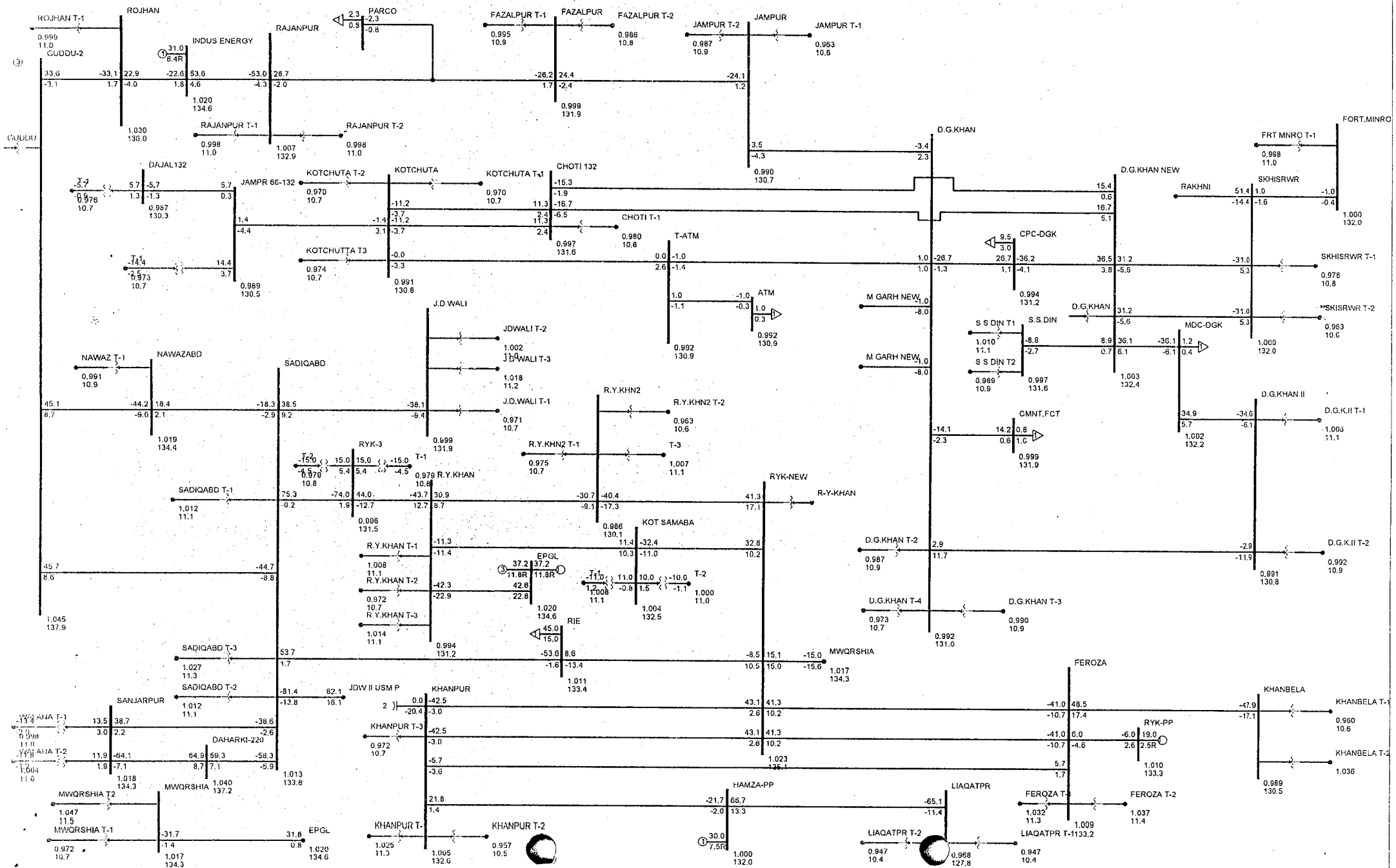
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2024 WITH ADDITIONAL REINFORCEMENT

Exhibit-2024-8.6



LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2025 WITHOUT ADDITIONAL REINFORCEMENT

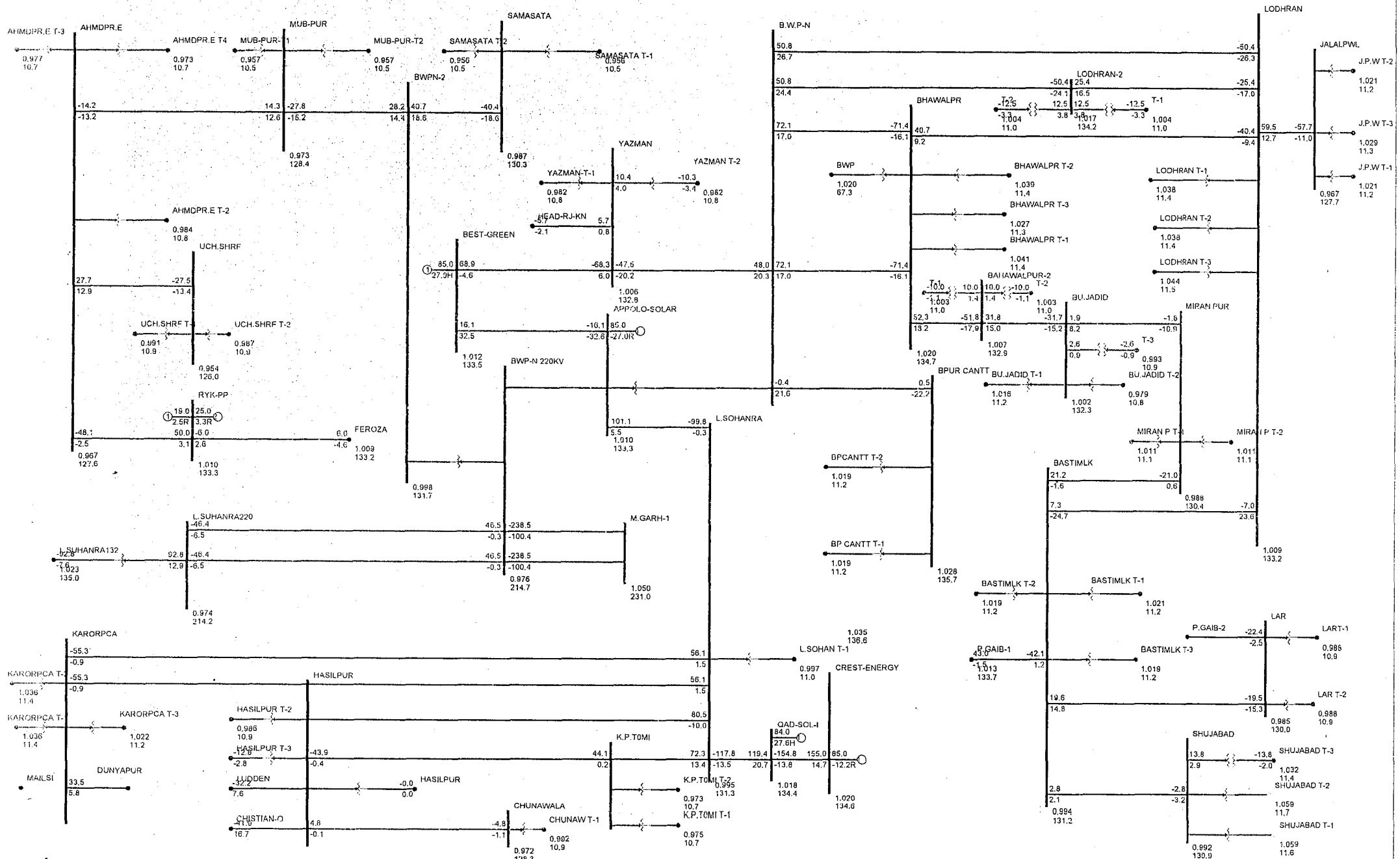
Exhibit-2025-9.1



LOAD FLOW FOR DIIP

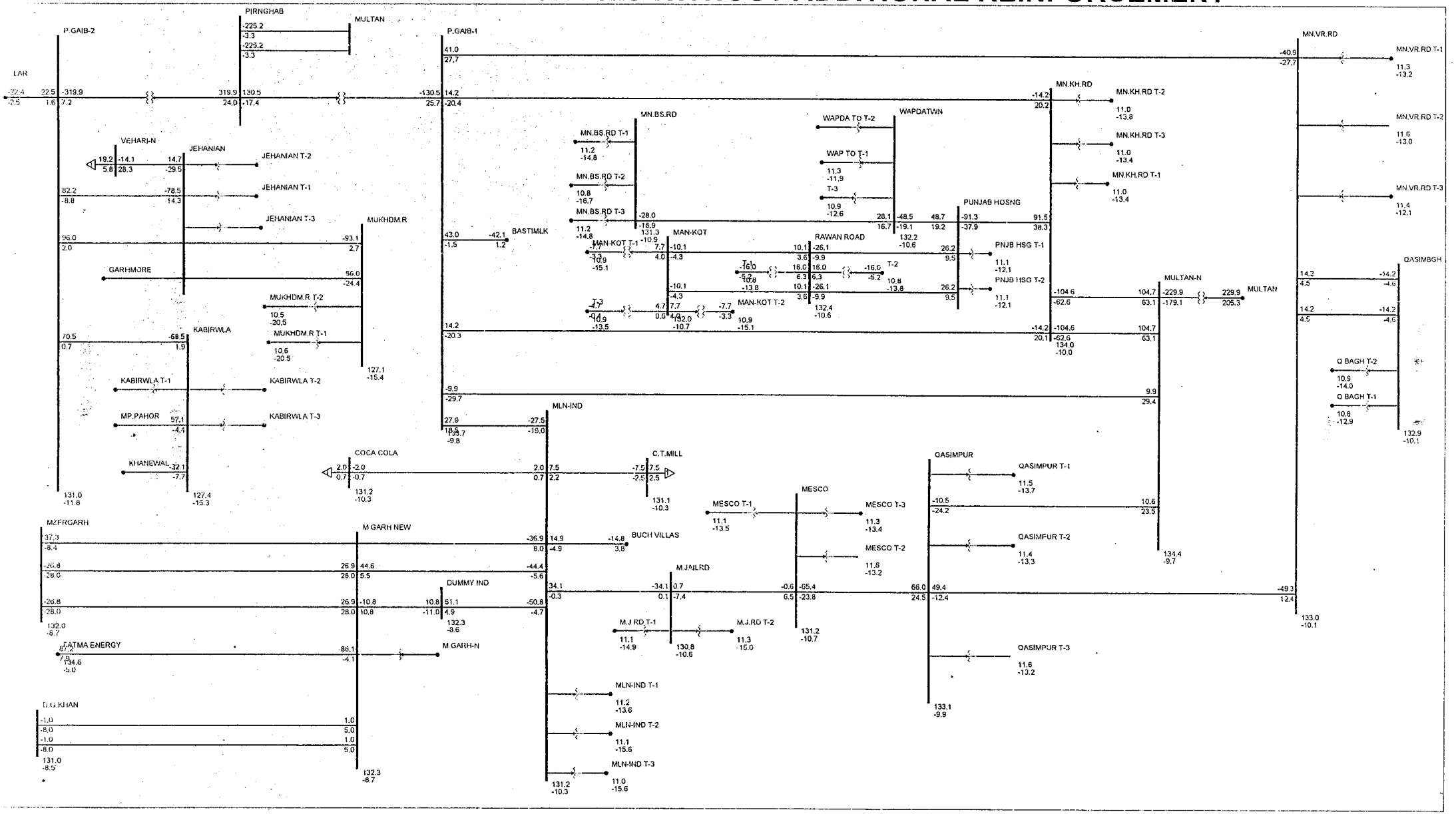
MEPCO PEAK LOAD CASE 2025 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2025-9.2



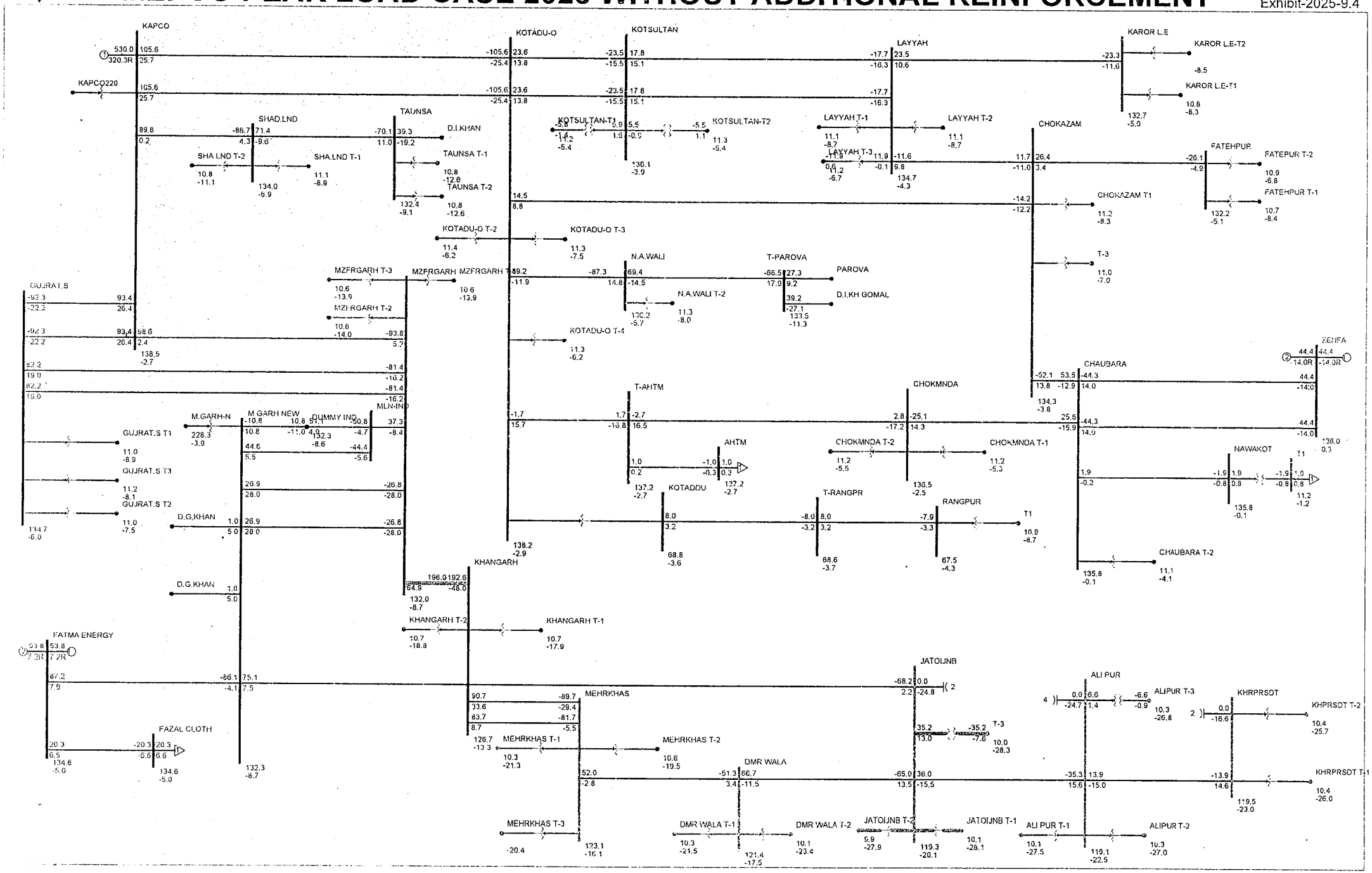
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2025 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2025-9.3



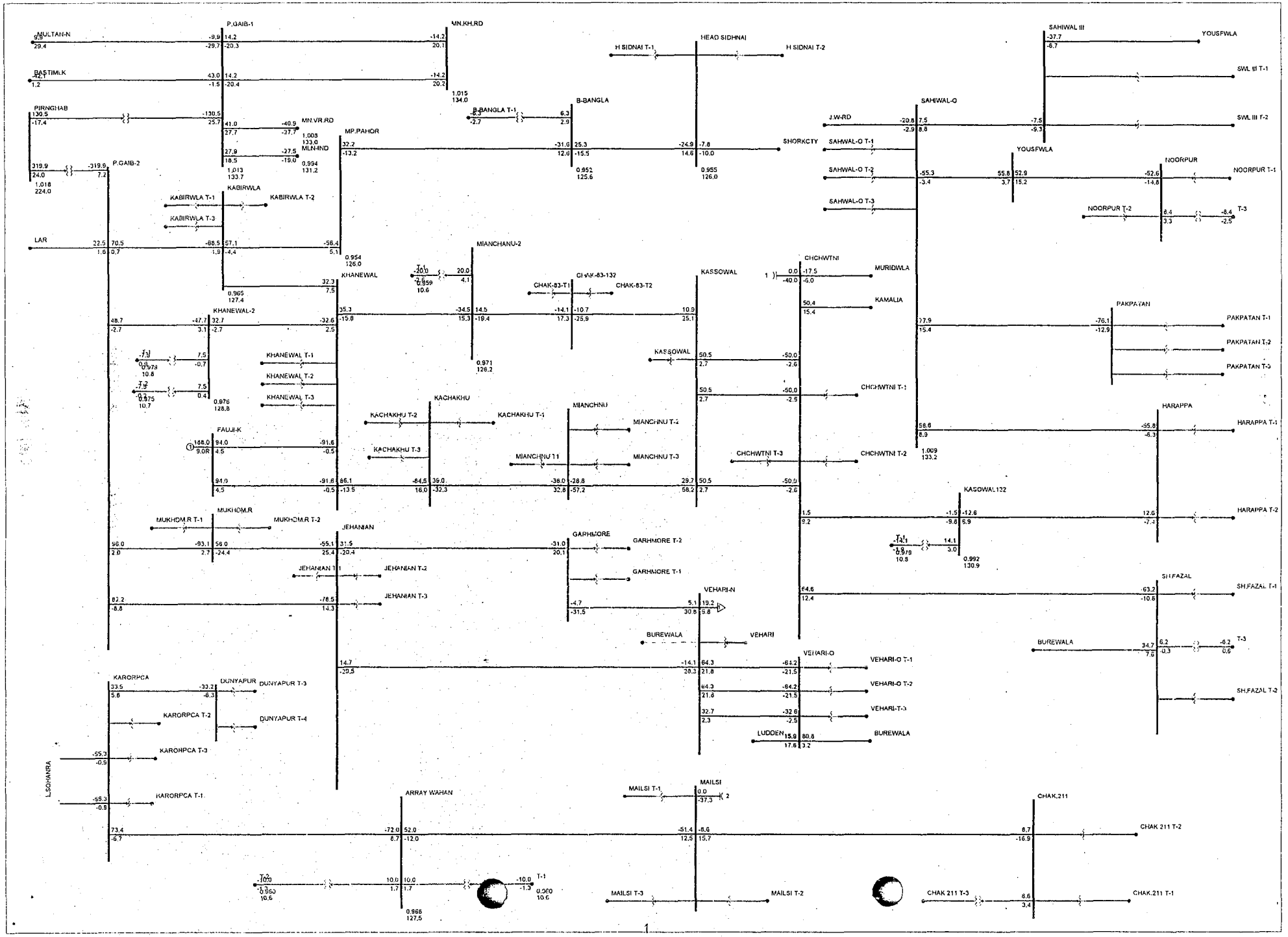
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2025 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2025-9.4



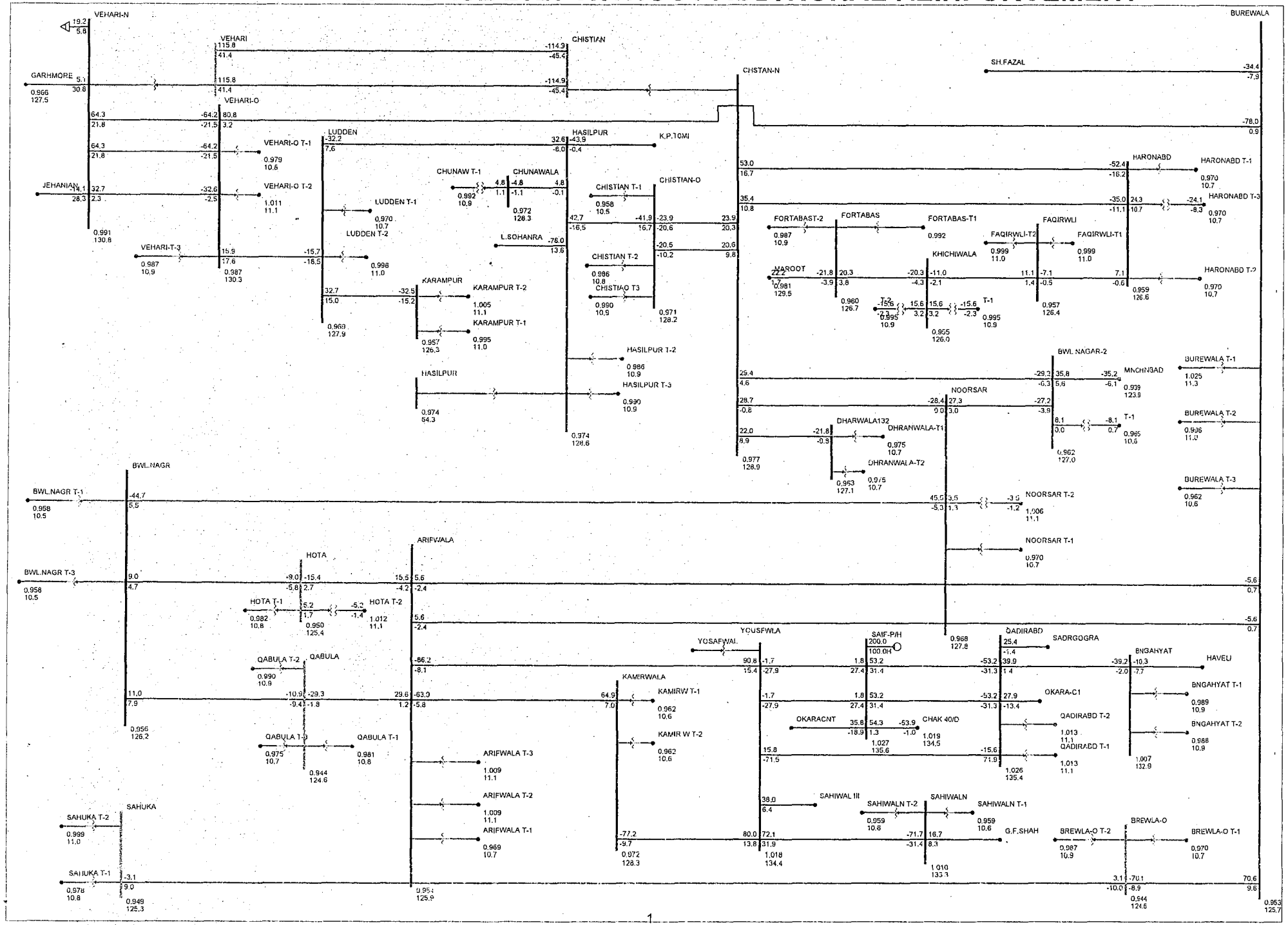
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2025 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2025-9.5



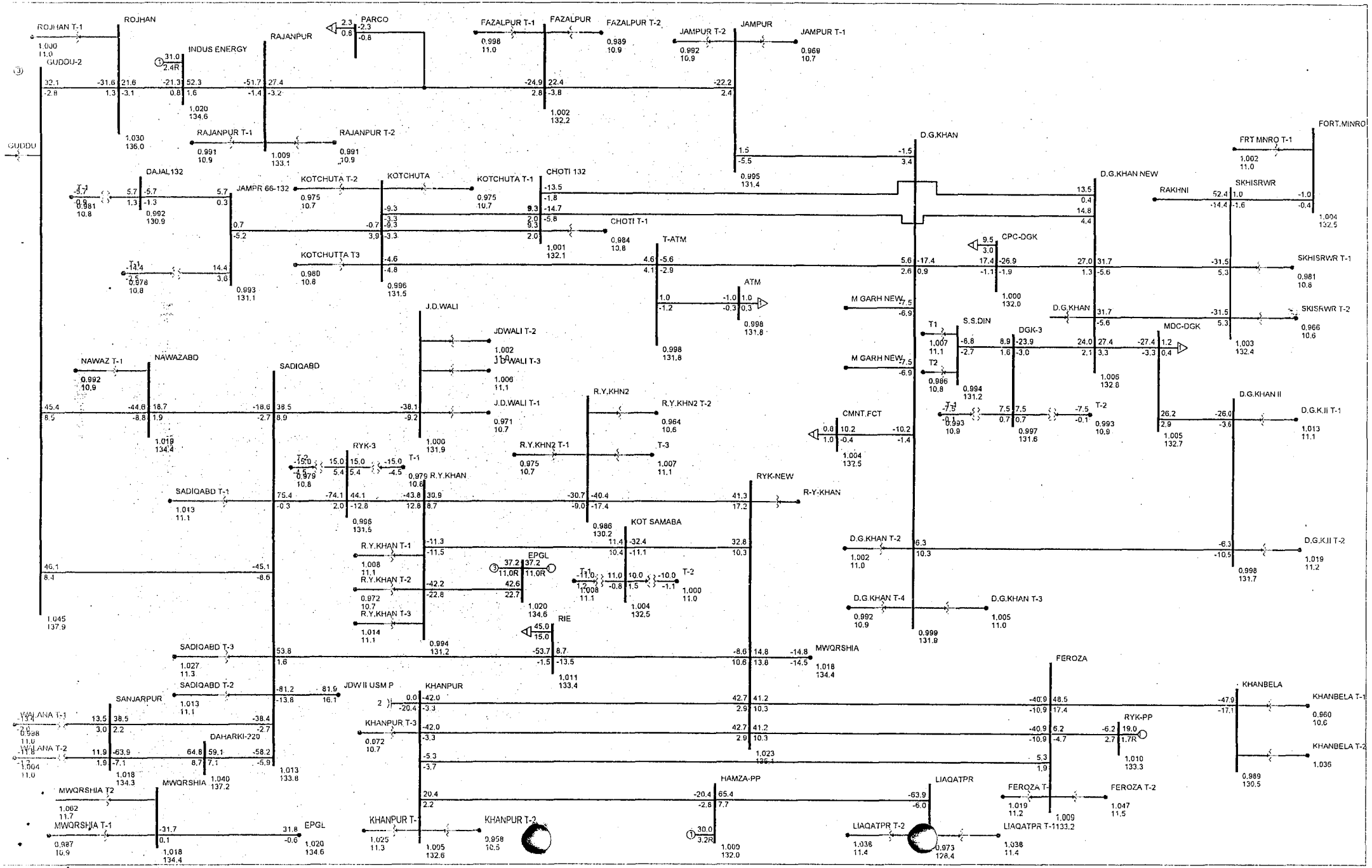
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2025 WITHOUT ADDITIONAL REINFORCEMENT

Exhibit-2025-9.6



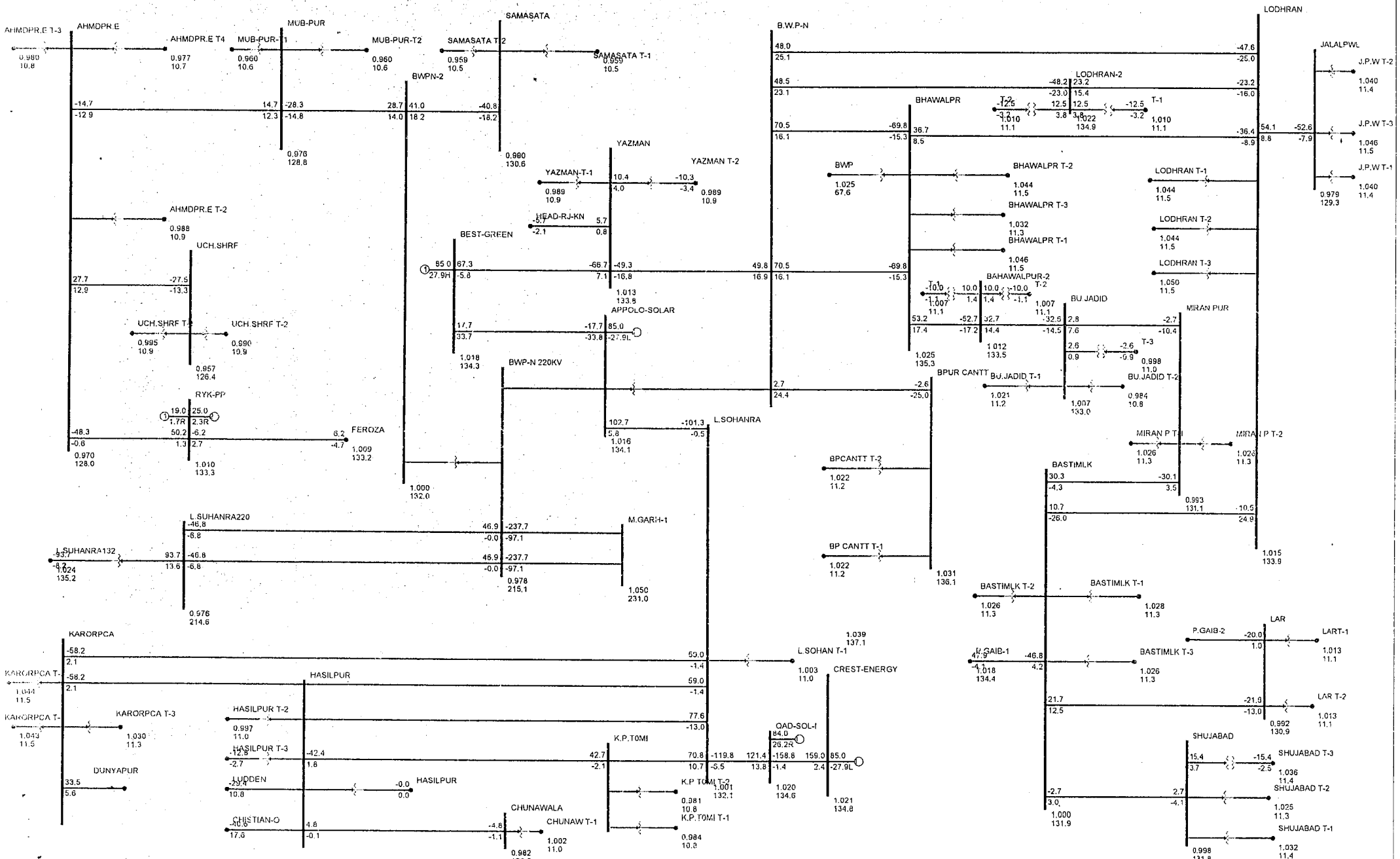
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2025 WITH ADDITIONAL REINFORCEMENT

Exhibit-2025-10.1



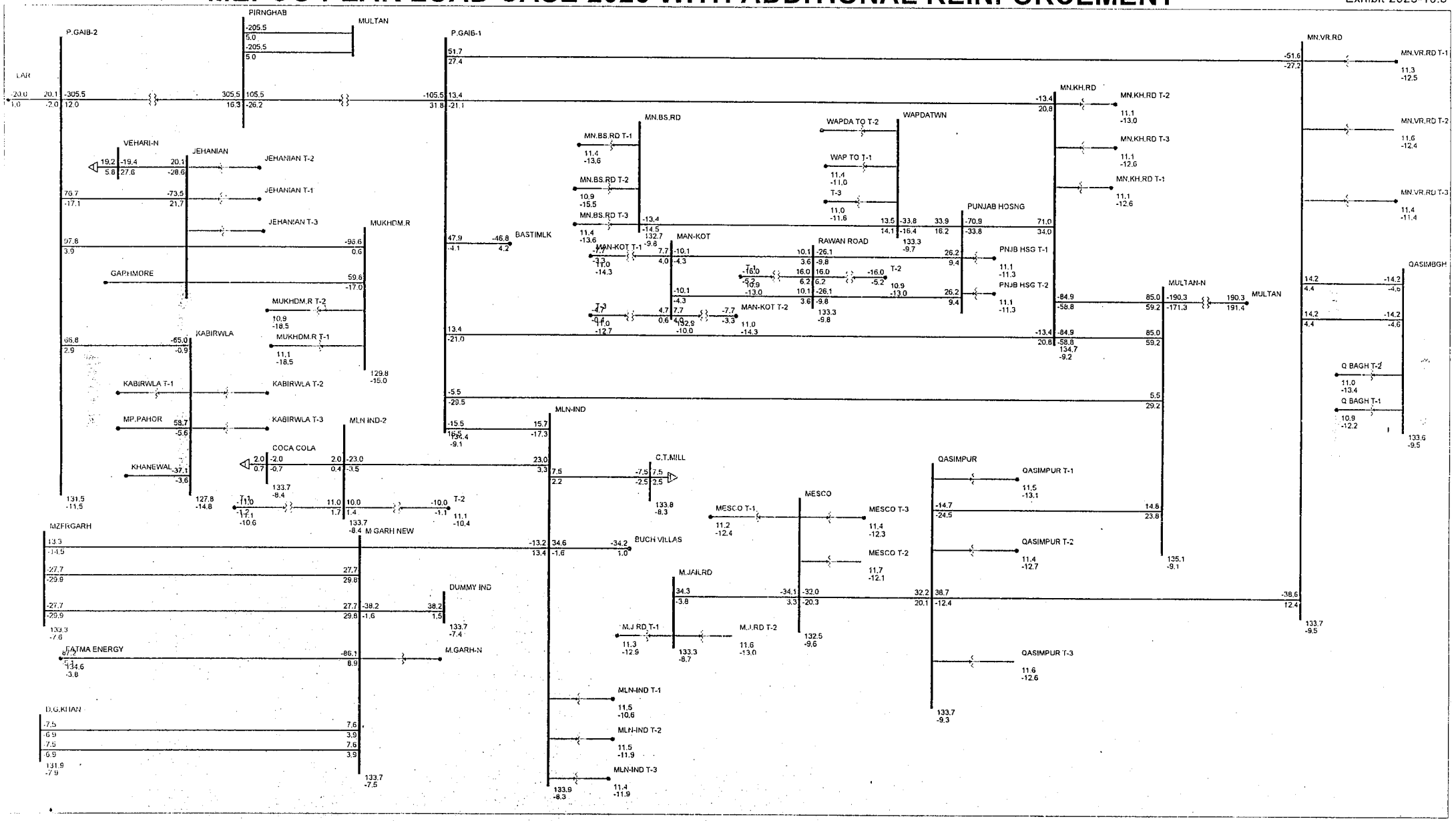
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2025 WITH ADDITIONAL REINFORCEMENT

Exhibit-2025-10.2



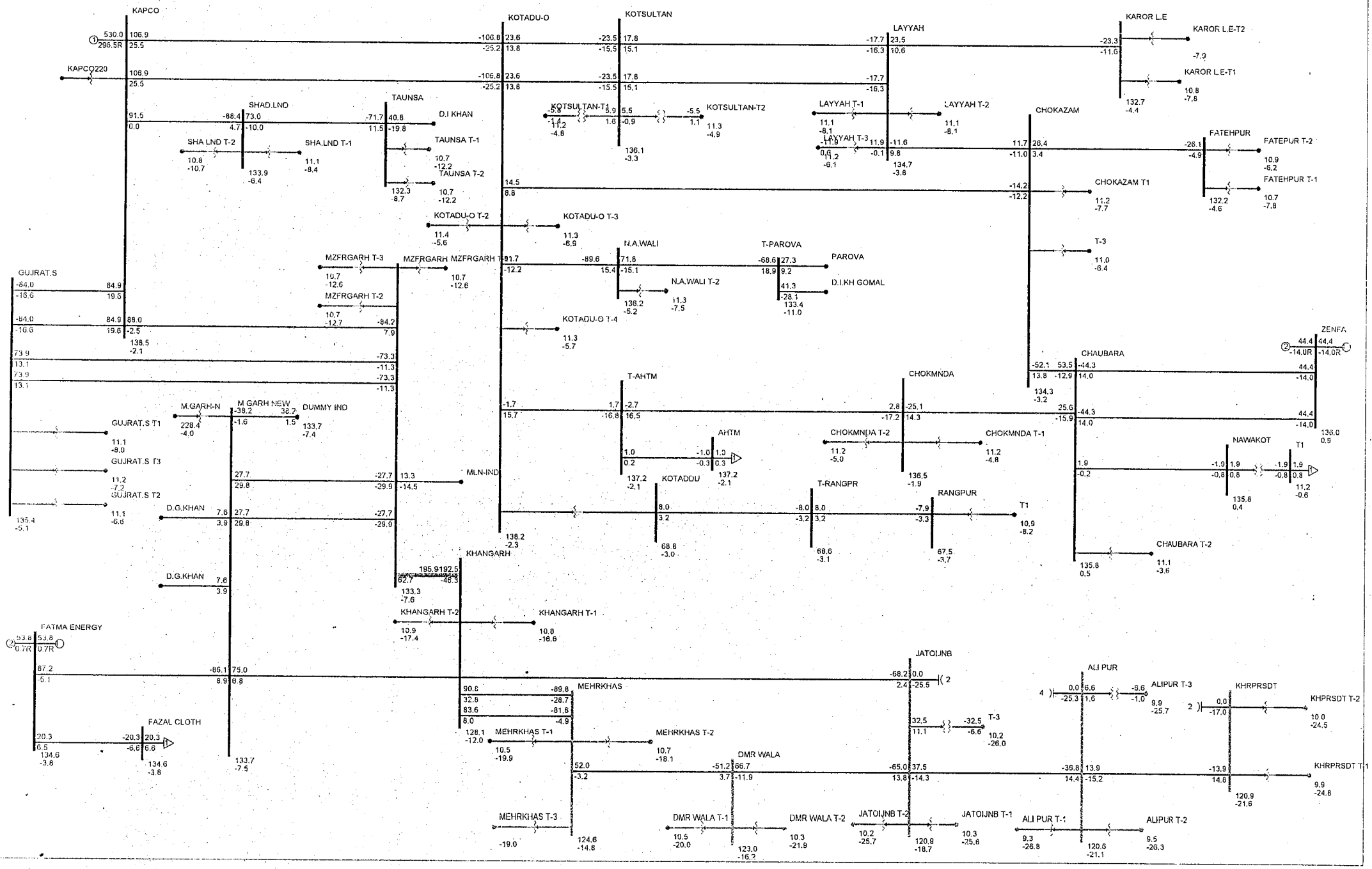
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2025 WITH ADDITIONAL REINFORCEMENT

Exhibit-2025-10.3



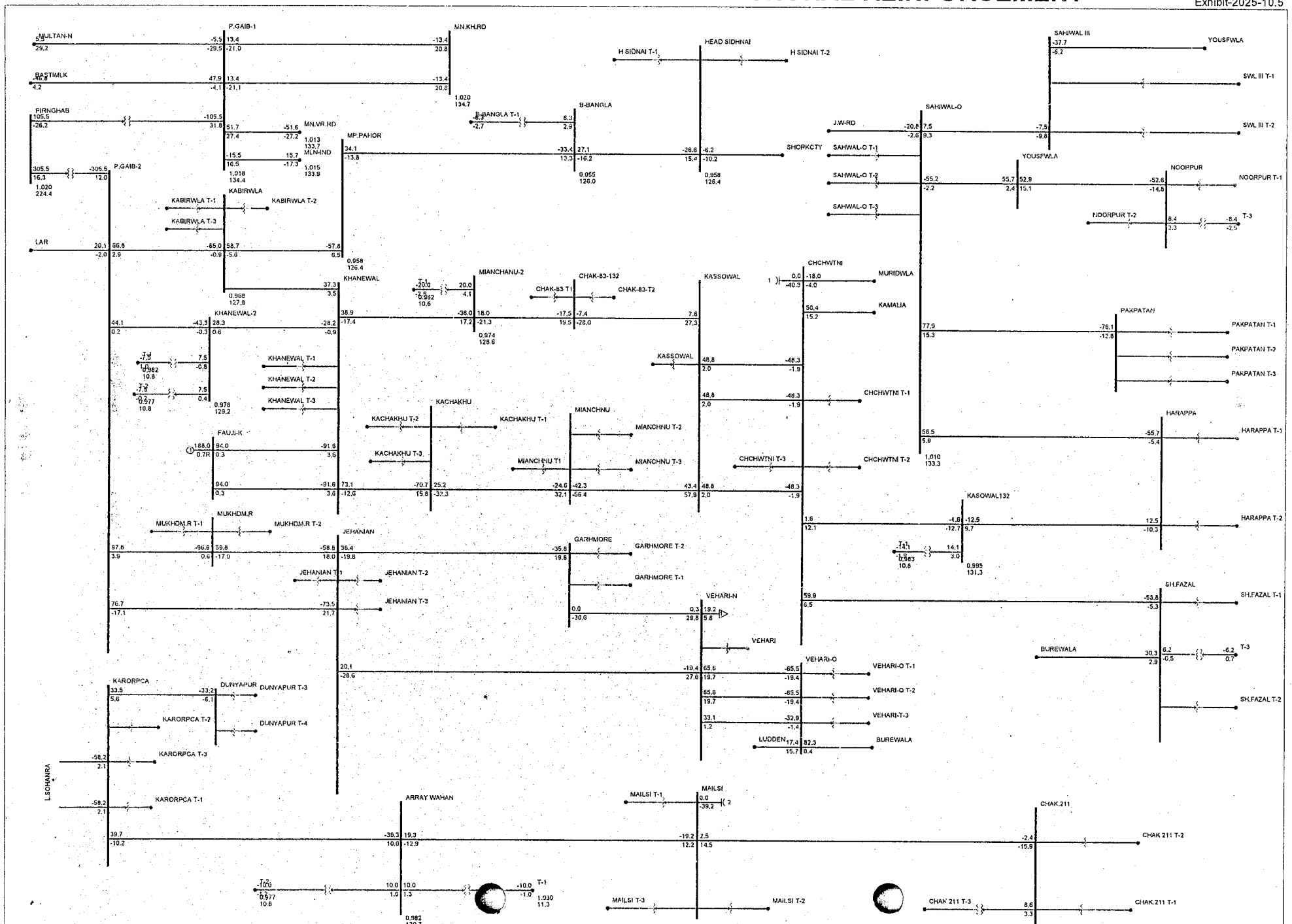
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2025 WITH ADDITIONAL REINFORCEMENT

Exhibit-2025-10.4



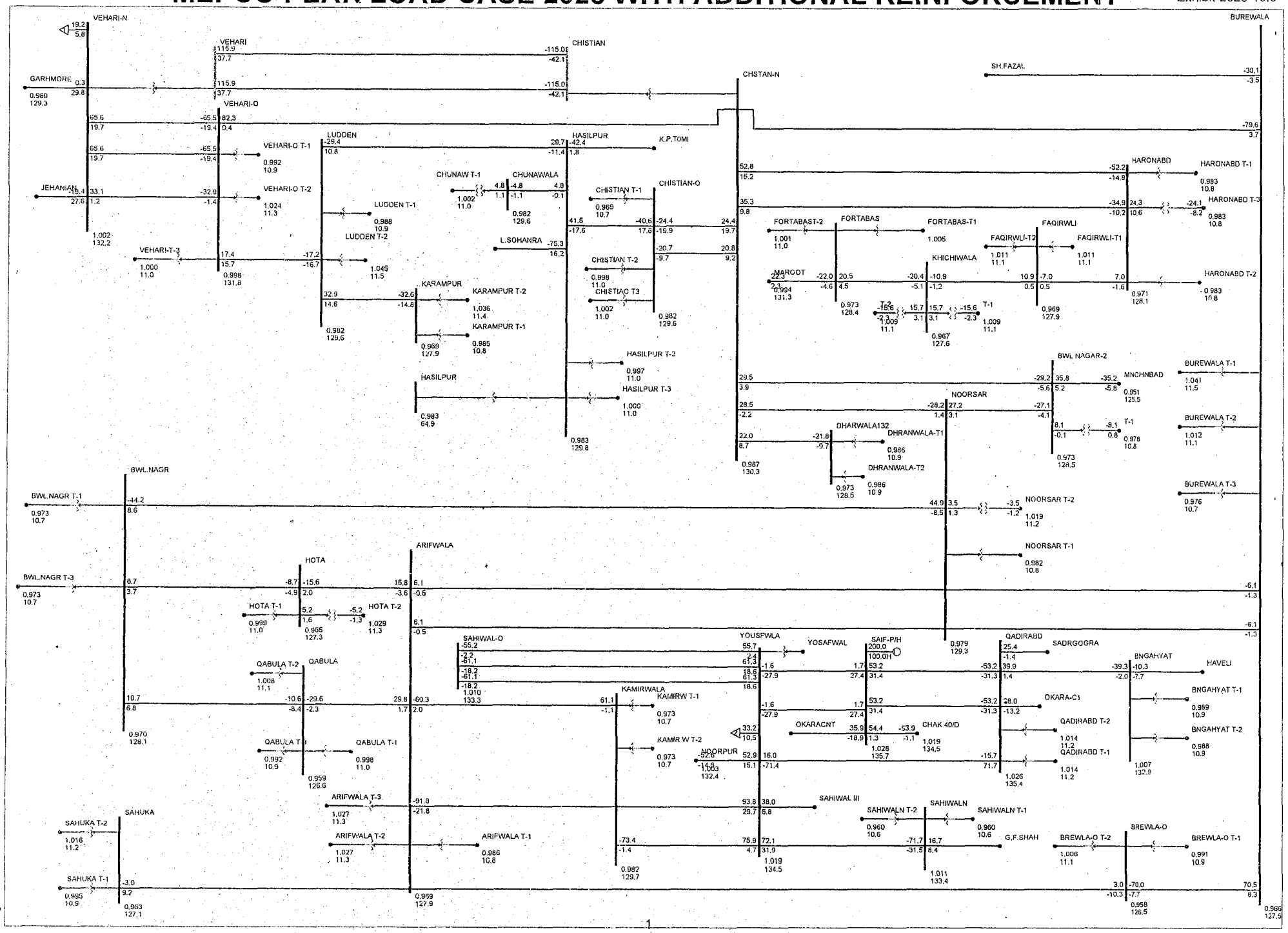
LOAD FLOW FOR DIIP
MEPCO PEAK LOAD CASE 2025 WITH ADDITIONAL REINFORCEMENT

Exhibit-2025-10.5



LOAD FLOW FOR DIIP
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 --	X BASKV	AREA	V(PU)	V(KV)	BUS#	X-- NAME --	X BASKV	AREA	V(PU)	V(KV)
104	T-OFF BUKSHA	66.000	6	0.8836	58.318	304	T-1	11.000	6	0.8856	9.742
401	T-3	11.000	6	0.9762	10.738	502	T-3	11.000	6	0.9938	10.932
529	PARCO	220.00	6	1.0247	225.44	5282	FATMA ENERGY	132.00	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
6095	SAHIWAL III	132.00	6	0.9922	130.97	6100	NOORPUR	132.00	6	0.9980	131.73
6120	PAKPATAN	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-O	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-SOLAR	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

7006	HEAD SIDHNAI	132.00	6	0.9313	122.94	7010	KACHAKHU	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	JEHANIAN	132.00	6	0.9329	123.15	7060	CHAK.211	132.00	6	0.8996	118.75
7070	MAILSI	132.00	6	0.8870	117.08	7075	MUKHDM.R	132.00	6	0.9433	124.52
7100	P.GAIB-1	132.00	6	0.9969	131.59	7109	P.GAIB-2	132.00	6	0.9793	129.27
7110	BASTIMLK	132.00	6	0.9600	126.72	7115	MIRAN PUR	132.00	6	0.9619	126.97
7120	LODHRAN	132.00	6	0.9904	130.73	7123	BUKSHAN 66KV	66.000	6	0.8832	58.293
7125	LAR	132.00	6	0.9612	126.88	7130	BU.JADID	132.00	6	0.9859	130.13
7138	BWPN-2	132.00	6	0.9860	130.16	7139	B.W.P-N	132.00	6	1.0203	134.69
7140	BHAWALPR	132.00	6	1.0030	132.39	7145	BPUR CANTT	132.00	6	1.0115	133.51
7146	CREST-ENERGY	132.00	6	1.0010	132.13	7147	KARORPCA	132.00	6	0.9195	121.38
7148	QAD-SOL-I	132.00	6	0.9992	131.89	7149	DUNYAPUR	132.00	6	0.9039	119.31
7150	SAMASATA	132.00	6	0.9755	128.76	7159	MUB-PUR	132.00	6	0.9612	126.87
7160	LIAQATPR	132.00	6	0.9718	128.28	7170	AHMDPR.E	132.00	6	0.9530	125.80
7175	RYK-PP	132.00	6	1.0000	132.00	7180	FEROZA	132.00	6	1.0040	132.53
7185	KHANBELA	132.00	6	0.9880	130.42	7190	HAMZA-PP	132.00	6	1.0000	132.00
7200	KHANPUR	132.00	6	0.9978	131.71	7210	MWQRSHIA	132.00	6	0.9815	129.55
7220	R.Y.KHAN	132.00	6	0.9848	130.00	7221	RYK-NEW	132.00	6	1.0160	134.11
7225	R.Y.KHN2	132.00	6	0.9799	129.35	7230	SADIQABD	132.00	6	1.0020	132.27
7231	SANJARPUR	132.00	6	1.0061	132.80	7232	JDW II USM P	132.00	6	1.0042	132.55
7235	NAWAZABD	132.00	6	1.0084	133.11	7237	RIE	132.00	6	0.9998	131.97
7240	J.D.WALI	132.00	6	0.9907	130.78	7250	MN.KH.RD	132.00	6	1.0002	132.02
7255	WAPDATWN	132.00	6	0.9897	130.65	7260	MN.BS.RD	132.00	6	0.9837	129.85
7261	PUNJAB HOSNG	132.00	6	0.9971	131.62	7262	BUCH VILLAS	132.00	6	0.9823	129.66
7265	QASIMBGH	132.00	6	0.9849	130.01	7270	MLN-IND	132.00	6	0.9880	130.42
7272	COCA COLA	132.00	6	0.9880	130.42	7273	SURAJ MIANI	132.00	6	0.9845	129.95
7275	C.T.MILL	132.00	6	0.9872	130.31	7277	APL	132.00	6	0.9269	122.35
7280	MN.VR.RD	132.00	6	0.9854	130.08	7285	QASIMPUR	132.00	6	0.9826	129.70
7287	M.JAILRD	132.00	6	0.9816	129.57	7288	SHUJABAD	132.00	6	0.9347	123.39
7289	JALALPWL	132.00	6	0.9469	124.99	7290	MESCO	132.00	6	0.9732	128.46
7300	KAPCO	132.00	6	1.0490	138.47	7320	GUJRAT.S	132.00	6	1.0224	134.96
7325	LAYYAH	132.00	6	1.0318	136.20	7328	KBGASHER	132.00	6	1.0233	135.08
7330	MZFRGARH	132.00	6	1.0015	132.19	7331	KOTADU-O	132.00	6	1.0478	138.31
7332	N.A.WALI	132.00	6	1.0318	136.20	7333	S.S.DIN	132.00	6	0.9938	131.18
7334	M GARH NEW	132.00	6	1.0054	132.71	7335	KOTSULTAN	132.00	6	1.0384	137.07
7336	KAROR L.E	132.00	6	1.0206	134.72	7337	EPGL	132.00	6	1.0000	132.00
7339	DUMMY IND	132.00	6	1.0038	132.51	7340	MEHRKHAS	132.00	6	0.9103	120.16
7350	DMR WALA	132.00	6	0.8910	117.62	7360	JATOIJNB	132.00	6	0.8457	111.63
7370	KHRPRSDT	132.00	6	0.8413	111.05	7395	SHAD.LND	132.00	6	1.0185	134.44
7400	TAUNSA	132.00	6	1.0080	133.06	7435	PARCO	132.00	6	0.9897	130.64
7436	T-PARCO	132.00	6	0.9895	130.62	7440	CHOKMNDA	132.00	6	1.0392	137.18

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	KOTCHUTA	132.00	6	0.9962	131.50	7466	T-ATM	132.00	6	0.9941	131.22
7467	ATM	132.00	6	0.9940	131.21	7469	CHOTI 132	132.00	6	0.9996	131.94
7470	ROJHAN	132.00	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	132.00	6	1.0045	132.59	7781	YAZMAN	132.00	6	1.0036	132.47
7791	MAROOT	132.00	6	0.7812	103.11	7800	KOTADDU	66.000	6	1.0439	68.897
7831	FATEHPUR	132.00	6	1.0196	134.59	7840	RANGPUR	66.000	6	1.0282	67.861
7842	T-RANGPR	66.000	6	1.0418	68.757	7880	CHAUBARA	66.000	6	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 II	132.00	6	0.9916	130.89	7910	D.G.KHAN	66.000	6	1.0055	66.363
7920	KOTCHOTA	66.000	6	0.9832	64.893	7921	JAMPUR	66.000	6	0.9557	63.077
7930	JAMPUR	132.00	6	0.9806	129.44	7933	FAZALPUR	132.00	6	0.9831	129.77
7935	DAJAL	66.000	6	0.9503	62.722	7951	RAJANPUR	132.00	6	0.9897	130.64
7959	INDUS ENERGY	132.00	6	1.0000	132.00	7970	AHMDPR.E	66.000	6	0.9492	62.650
7974	UCH.SHRF	132.00	6	0.9429	124.47	7975	KOT KHALIFA	66.000	6	0.8590	56.691
7977	T-UCHSHF	66.000	6	0.9080	59.926	7981	ALI PUR	132.00	6	0.8381	110.63
7984	HEAD-RJ-KN	132.00	6	1.0016	132.21	7996	FORT.MINRO	132.00	6	1.0011	132.15
60301	QADIRABD T-1	11.000	6	0.9974	10.971	60302	QADIRABD T-2	11.000	6	0.9974	10.971
60501	BNGAHYAT T-1	11.000	6	0.9834	10.817	60502	BNGAHYAT T-2	11.000	6	0.9821	10.804
60801	SAHIWALN T-1	11.000	6	0.9595	10.554	60802	SAHIWALN T-2	11.000	6	0.9595	10.554
60803	T-3	11.000	6	1.0015	11.016	60901	SAHWAL-O T-1	11.000	6	0.9990	10.989
60902	SAHWAL-O T-2	11.000	6	0.9720	10.692	60903	SAHWAL-O T-3	11.000	6	1.0272	11.299
60951	SWL III T-1	11.000	6	0.9166	10.083	60952	SWL III T-2	11.000	6	0.9166	10.083
61001	NOORPUR T-1	11.000	6	0.9875	10.862	61002	NOORPUR T-2	11.000	6	0.9770	10.747
61004	T-3	11.000	6	0.9689	10.658	61201	PAKPATAN T-1	11.000	6	1.0144	11.158
61202	PAKPATAN T-2	11.000	6	1.0144	11.158	61203	PAKPATAN T-3	11.000	6	1.0090	11.099
61301	HARAPPA T-1	11.000	6	0.9412	10.354	61302	HARAPPA T-2	11.000	6	0.9847	10.831
61401	CHCHWTNI T-1		6	0.9825		61402	CHCHWTNI T-2	11.000	6	0.9895	10.885
61403	CHCHWTNI T-3	11.000	6	0.9776	10.753	61491	T-1	11.000	6	1.0164	11.181
61501	SH.FAZAL T-1	11.000	6	0.9747	10.722	61502	SH.FAZAL T-2	11.000	6	0.9747	10.722
61503	T-3	11.000	6	0.9681	10.649	61601	BUREWALA T-1	11.000	6	0.9405	10.346
61602	BUREWALA T-2	11.000	6	0.9080	9.988	61603	BUREWALA T-3	11.000	6	0.9552	10.507
61621	BREWLA-O T-1	11.000	6	0.8460	9.305	61622	BREWLA-O T-2	11.000	6	0.8913	9.804
61701	VEHARI-O T-1	11.000	6	0.9356	10.291	61702	VEHARI-O T-2	11.000	6	0.9414	10.355
61703	VEHARI-T-3	11.000	6	0.9283	10.211	61751	LUDDEN T-1	11.000	6	0.9072	9.979
61752	LUDDEN T-2	11.000	6	0.9072	9.979	61781	KARAMPUR T-1	11.000	6	0.9560	10.516
61782	KARAMPUR T-2	11.000	6	0.9517	10.469	61801	ARIFWALA T-3	11.000	6	0.9344	10.279
61802	ARIFWALA T-2	11.000	6	0.9344	10.279	61803	ARIFWALA T-1	11.000	6	0.9059	9.965
61821	KAMIRW T-1	11.000	6	0.9271	10.198	61822	KAMIR W T-2	11.000	6	0.9271	10.198

61901	BWL.NAGR T-1	11.000	6	0.9542	10.497	61902	T-3	11.000	6 0.8908 9.799
61903	BWL.NAGR T-3	11.000	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	QABULA T-1	11.000	6 0.8494 9.343
62002	QABULA T-2	11.000	6	0.9296	10.226	62003	QABULA T-3	11.000	6 0.8681 9.550
62101	SAHUKA T-1	11.000	6	0.8632	9.495	62102	SAHUKA T-2	11.000	6 0.8565 9.422
62202	T-2	11.000	6	0.9256	10.182	62203	T-3	11.000	6 0.9294 10.223
62211	T-1	11.000	6	0.9474	10.422	62301	CHISTIAN T-1	11.000	6 0.9223 10.145
62302	CHISTIAN T-2	11.000	6	0.8968	9.865	62303	CHISTIAO T3	11.000	6 0.8868 9.755
62321	DHRANWALA-T1	11.000	6	0.8877	9.765	62322	DHRANWALA-T2	11.000	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-2	11.000	6	0.8198	9.018	64191	L.SOHAN T-1	11.000	6 0.9355 10.290
64211	T-1	11.000	6	0.9366	10.303	64212	T-2	11.000	6 0.9333 10.266
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	T-1	11.000	6	0.8807	9.688	64891	T-1	11.000	6 0.8941 9.835
64892	T-2	11.000	6	0.8941	9.835	64911	MCLD.GNJ T1	11.000	6 0.8866 9.753
64912	MCLD GNG T-2		6	0.8703		65012	HARONABD T-2	11.000	6 0.9039 9.943
65013	HARONABD T-1	11.000	6	0.8792	9.671	65014	HARONABD T-3	11.000	6 0.9035 9.939
65121	FAQIRWLI-T1	11.000	6	0.9061	9.967	65122	FAQIRWLI-T2	11.000	6 0.9061 9.967
65191	T-1	11.000	6	0.7918	8.709	65192	T-2	11.000	6 0.7918 8.709
65211	FORTABAS-T1		6	0.8687		65212	FORTABAST-2	11.000	6 0.8612 9.473
70001	MIANCHNU T1	11.000	6	1.0144	11.158	70002	MIANCHNU T-2	11.000	6 0.9920 10.912
70003	MIANCHNU T-3	11.000	6	0.9842	10.826	70011	CHAK-83-T1	11.000	6 0.9827 10.810
70012	CHAK-83-T2	11.000	6	0.9827	10.810	70061	H SIDNAI T-1	11.000	6 0.9620 10.582
70062	H SIDNAI T-2	11.000	6	0.9836	10.819	70101	KACHAKHU T-1	11.000	6 0.9752 10.727
70102	KACHAKHU T-2	11.000	6	0.9752	10.727	70103	KACHAKHU T-3	11.000	6 0.9752 10.727
70201	KHANEWAL T-1	11.000	6	0.9880	10.868	70202	KHANEWAL T-2	11.000	6 0.9807 10.787
70203	KHANEWAL T-3	11.000	6	0.9823	10.806	70301	KABIRWLA T-1	11.000	6 0.9941 10.935
70302	KABIRWLA T-2	11.000	6	1.0106	11.117	70303	KABIRWLA T-3	11.000	6 0.9647 10.611
70321	MP PAHOR T-1	11.000	6	0.9735	10.709	70322	MP PAHOR T-2	11.000	6 0.9391 10.330
70401	GARHMORE T-1	11.000	6	0.9501	10.451	70402	GARHMORE T-2	11.000	6 0.9229 10.152
70421	B-BANGLA T-1	11.000	6	0.9725	10.697	70501	JEHANIAN T-1	11.000	6 0.9559 10.515
70502	JEHANIAN T-2	11.000	6	0.9830	10.813	70503	JEHANIAN T-3	11.000	6 0.9525 10.477
70601	CHAK.211 T-1	11.000	6	0.9495	10.445	70602	CHAK 211 T-2	11.000	6 0.9473 10.421
70603	CHAK 211 T-3	11.000	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-1	11.000	6	0.9594	10.553	70752	MUKHDM.R T-2	11.000	6 0.9441 10.385
71101	T-1	11.000	6	0.9885	10.874	71102	T-2	11.000	6 0.9866 10.852
71103	T-3	11.000	6	0.9866	10.852	71151	T-1	11.000	6 0.9905 10.896
71152	T-2	11.000	6	0.9905	10.896	71201	T-1	11.000	6 1.0039 11.043
71202	T-2	11.000	6	1.0039	11.043	71203	T-3	11.000	6 1.0143 11.157
71251	T-1	11.000	6	0.9767	10.743	71252	T-2	11.000	6 0.9767 10.743
71301	T-1	11.000	6	0.9954	10.949	71302	T-2	11.000	6 0.9557 10.513

71401	T-1	11.000	6	1.0122	11.134	71402	T-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
71451	T-1	11.000	6	0.9907	10.898	71452	T-2	11.000	6	0.9907	10.898
71471	T-1	11.000	6	0.9468	10.415	71472	T-2	11.000	6	0.9309	10.239
71473	T-3	11.000	6	0.9168	10.085	71491	DUNYAPUR T-3	11.000	6	0.9205	10.126
71492	DUNYAPUR T-4	11.000	6	0.9479	10.427	71501	T-1	11.000	6	0.9477	10.425
71502	T-2	11.000	6	0.9477	10.425	71591	T1	11.000	6	0.9480	10.428
71592	T2	11.000	6	0.9480	10.428	71601	T-1	11.000	6	0.9707	10.678
71602	T-2	11.000	6	0.9707	10.678	71702	AHMDPR.E T-2	11.000	6	0.9621	10.583
71703	T-3	11.000	6	0.9753	10.728	71704	T4	11.000	6	0.9772	10.749
71801	T-1	11.000	6	1.0358	11.394	71802	T-2	11.000	6	1.0240	11.264
71851	T-1	11.000	6	1.0575	11.633	71852	T-2		6	1.0322	
72001	T-1	11.000	6	1.0430	11.474	72002	T-2	11.000	6	1.0464	11.510
72003	T-3	11.000	6	1.0563	11.619	72101	T-1	11.000	6	1.0412	11.453
72102	T2	11.000	6	1.0288	11.317	72103	T-3	11.000	6	0.9416	10.358
72201	T-1	11.000	6	0.9762	10.738	72202	T-2	11.000	6	1.0278	11.305
72203	T-3	11.000	6	0.9818	10.800	72204	T-4	11.000	6	0.9836	10.820
72251	T-1	11.000	6	0.9671	10.638	72252	T-2	11.000	6	0.9653	10.618
72253	T-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	T-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-1	11.000	6	0.9722	10.694
72502	MN.KH.RD T-2	11.000	6	0.9722	10.694	72503	MN.KH.RD T-3	11.000	6	0.9722	10.694
72551	WAP TO T-1	11.000	6	1.0137	11.150	72552	WAPDA TO T-2	11.000	6	0.9880	10.868
72554	T-3	11.000	6	0.9803	10.784	72601	MN.BS.RD T-1	11.000	6	0.9855	10.840
72602	MN.BS.RD T-2	11.000	6	0.9470	10.417	72603	MN.BS.RD T-3	11.000	6	0.9855	10.840
72611	PNJB HSG T-1	11.000	6	0.9947	10.942	72612	PNJB HSG T-2	11.000	6	0.9947	10.942
72621	BUCH VLS T-1	11.000	6	0.9395	10.335	72651	Q BAGH T-1	11.000	6	0.9641	10.605
72652	Q BAGH T-2	11.000	6	0.9704	10.674	72701	MLN-IND T-1	11.000	6	1.0131	11.144
72702	MLN-IND T-2	11.000	6	0.9505	10.456	72703	MLN-IND T-3	11.000	6	1.0015	11.016
72731	SURJ MNI T-1	11.000	6	0.9979	10.977	72801	MN.VR.RD T-1	11.000	6	0.9817	10.799
72802	MN.VR.RD T-2	11.000	6	1.0110	11.121	72803	MN.VR.RD T-3	11.000	6	0.9963	10.960
72851	QASIMPUR T-1	11.000	6	0.9928	10.920	72852	QASIMPUR T-2	11.000	6	0.9443	10.388
72853	QASIMPUR T-3	11.000	6	1.0008	11.008	72871	M.J RD T-1	11.000	6	0.9522	10.474
72872	M.J.RD T-2	11.000	6	0.9522	10.474	72881	T-1	11.000	6	0.9829	10.812
72882	T-2	11.000	6	0.9836	10.820	72883	T-3	11.000	6	0.9616	10.578
72891	T-1	11.000	6	0.9921	10.913	72892	T-2	11.000	6	0.9902	10.893
72893	T-3	11.000	6	1.0040	11.044	72901	MESCO T-1	11.000	6	0.9723	10.695
72902	MESCO T-2	11.000	6	1.0231	11.254	72903	MESCO T-3	11.000	6	0.9942	10.936
73201	GUJRAT.S T1	11.000	6	1.0110	11.121	73202	GUJRAT.S T3	11.000	6	1.0204	11.225
73203	GUJRAT.S T2	11.000	6	1.0113	11.124	73251	LAYYAH T-1	11.000	6	1.0338	11.372

73252	LAYYAH T-2	11.000	6	1.0338	11.372	73253	LAYYAH T-3	11.000	6	1.1255	12.380
73281	KBGASHER T-1	11.000	6	1.0115	11.126	73282	KBGASHER T-2	11.000	6	1.0126	11.138
73301	MZFRGARH T-1	11.000	6	0.9702	10.672	73302	MZFRGARH T-2	11.000	6	0.9692	10.661
73303	MZFRGARH T-3	11.000	6	0.9702	10.672	73312	KOTADU-O T-2	11.000	6	1.0461	11.507
73313	KOTADU-O T-3	11.000	6	1.0422	11.465	73314	KOTADU-O T-4	11.000	6	1.0270	11.297
73321	N.A.WALI T-2	11.000	6	1.0214	11.236	73322	N.A.WALI T-1	11.000	6	1.0261	11.287
73331	T1	11.000	6	1.0010	11.011	73332	T2	11.000	6	0.9817	10.799
73351	KOTSULTAN-T1	11.000	6	1.0261	11.287	73352	KOTSULTAN-T2	11.000	6	1.0404	11.445
73361	KAROR L.E-T1	11.000	6	1.0005	11.006	73362	KAROR L.E-T2		6	1.0006	
73401	MEHRKHAS T-1	11.000	6	0.8780	9.659	73402	MEHRKHAS T-2	11.000	6	0.8780	9.659
73403	MEHRKHAS T-3		6	0.8722		73501	DMR WALA T-1	11.000	6	0.8402	9.242
73502	DMR WALA T-2	11.000	6	0.8407	9.248	73601	JATOIJNB T-1	11.000	6	0.6877	7.564
73602	JATOIJNB T-2	11.000	6	0.3442	3.786	73603	T-3	11.000	6	0.8100	8.910
73701	KHRPRSDT T-1	11.000	6	0.8362	9.198	73702	KHPRSDT T-2	11.000	6	0.8363	9.199
73951	SHA.LND T-1	11.000	6	1.0120	11.132	73952	SHA LND T-2	11.000	6	0.9871	10.859
74001	TAUNSA T-1	11.000	6	0.9896	10.885	74002	TAUNSA T-2	11.000	6	0.9896	10.885
74003	T-3	11.000	6	1.0142	11.157	74401	CHOKMNDA T-1	11.000	6	1.0569	11.626
74402	CHOKMNDA T-2	11.000	6	1.0234	11.257	74502	CHAUBARA T-2	11.000	6	1.0293	11.322
74562	CHOKAZAM T1	11.000	6	1.0404	11.444	74563	T-3	11.000	6	1.0147	11.161
74591	KHANGARH T-1	11.000	6	0.9149	10.063	74592	KHANGARH T-2	11.000	6	0.9306	10.237
74602	T-2	11.000	6	0.9941	10.935	74603	T-3	11.000	6	0.9969	10.966
74604	T-4	11.000	6	1.0396	11.435	74651	T-1	11.000	6	0.9777	10.755
74652	T-2	11.000	6	0.9777	10.755	74653	T3	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	T-1	11.000	6	0.9819	10.801	75902	T-2	11.000	6	1.0525	11.577
77811	T-1	11.000	6	0.9824	10.806	77812	T-2	11.000	6	0.9824	10.806
77911	MAROOT T1	11.000	6	0.7555	8.311	77912	MAROOT T-2	11.000	6	0.7456	8.202
78311	FATEHPUR T-1	11.000	6	1.0024	11.026	78312	FATEPUR T-2	11.000	6	1.0654	11.719
78313	T-3	11.000	6	1.0436	11.480	78401	T1	11.000	6	1.0053	11.058
78901	NAWANKOT T-1	11.000	6	1.0210	11.231	79091	T-1	11.000	6	1.0108	11.118
79092	T-2	11.000	6	0.9987	10.986	79211	JAMPUR T-1	11.000	6	0.9435	10.378
79301	T-1	11.000	6	1.0207	11.228	79302	T-2	11.000	6	0.9844	10.828
79331	T-1	11.000	6	0.9726	10.698	79332	T-2	11.000	6	0.9642	10.607
79351	T-1	11.000	6	0.9593	10.552	79352	DAJAL T-2		6	0.9659	
79511	T-1	11.000	6	0.9815	10.797	79512	T-2	11.000	6	0.9815	10.797
79513	RAJANPUR T-3		6	0.9539		79741	UCH.SHRF T-2	11.000	6	0.9831	10.814
79742	UCH.SHRF T-3	11.000	6	0.9614	10.575	79743	UCH.SHRF T-1	11.000	6	0.9892	10.882
79751	UCH (KF) T-1	11.000	6	0.8338	9.172	79752	T-2		6	0.8311	
79811	ALI PUR T-1	11.000	6	0.7939	8.733	79812	ALIPUR T-2	11.000	6	0.8170	8.987
79813	ALIPUR T-3	11.000	6	0.8804	9.685	79841	H.R. KAN T1	11.000	6	1.0194	11.213
79842	T-2	11.000	6	0.9863	10.849	79961	T-1	11.000	6	0.9975	10.972
732512	LSM-132KV	132.00	6	1.0314	136.15						

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 BUKSHA	66.000	6	0.9429	62.229	304	T-1	11.000	6	0.9360	10.296
401	T-3	11.000	6	0.9939	10.933	502	T-3	11.000	6	1.0024	11.026
529	PARCO	220.00	6	1.0386	228.50	5282	FATMA ENERGY	132.00	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	0.9720	128.30
6210	SAHUKA	132.00	6	0.9775	129.03	6220	HASILPUR	132.00	6	0.9872	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	0.9712	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-SOLAR	132.00	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	131.37
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	MULTAN-N	132.00	6	1.0174	134.30	7000	MIANCHNU	132.00	6	0.9820	129.62

7001	CHAK-83-132	132.00	6	0.9969	131.59	7002	KASSOWAL	132.00	6	1.0181	134.39
7006	HEAD SIDHNAI	132.00	6	0.9744	128.62	7010	KACHAKHU	132.00	6	0.9720	128.30
7020	KHANEWAL	132.00	6	0.9814	129.54	7029	FAUJI-K	132.00	6	1.0000	132.00
7030	KABIRWLA	132.00	6	0.9772	129.00	7032	MP.PAHOR	132.00	6	0.9700	128.04
7040	GARHMORE	132.00	6	0.9904	130.73	7042	B-BANGLA	132.00	6	0.9701	128.05
7050	JEHANIAN	132.00	6	0.9835	129.83	7060	CHAK.211	132.00	6	0.9738	128.55
7070	MAILSI	132.00	6	0.9785	129.17	7075	MUKHDM.R	132.00	6	0.9813	129.53
7100	P.GAIB-1	132.00	6	1.0106	133.40	7109	P.GAIB-2	132.00	6	1.0006	132.08
7110	BASTIMLK	132.00	6	0.9787	129.18	7115	MIRAN PUR	132.00	6	0.9804	129.41
7120	LODHRAN	132.00	6	1.0078	133.03	7123	BUKSHAN 66KV	66.000	6	0.9424	62.199
7125	LAR	132.00	6	0.9810	129.50	7130	BU.JADID	132.00	6	1.0034	132.44
7138	BWPN-2	132.00	6	1.0034	132.44	7139	B.W.P-N	132.00	6	1.0364	136.80
7140	BHAWALPR	132.00	6	1.0198	134.61	7145	BPUR CANTT	132.00	6	1.0290	135.82
7146	CREST-ENERGY	132.00	6	1.0212	134.80	7147	KARORPCA	132.00	6	0.9780	129.09
7148	QAD-SOL-I	132.00	6	1.0200	134.64	7149	DUNYAPUR	132.00	6	0.9641	127.26
7150	SAMASATA	132.00	6	0.9942	131.23	7159	MUB-PUR	132.00	6	0.9832	129.78
7160	LIAQATPR	132.00	6	0.9817	129.59	7170	AHMDPR.E	132.00	6	0.9770	128.96
7175	RYK-PP	132.00	6	1.0100	133.32	7180	FEROZA	132.00	6	1.0127	133.67
7185	KHANBELA	132.00	6	0.9964	131.52	7190	HAMZA-PP	132.00	6	1.0000	132.00
7200	KHANPUR	132.00	6	1.0033	132.43	7210	MWQRSHIA	132.00	6	0.9878	130.40
7220	R.Y.KHAN	132.00	6	1.0006	132.08	7221	RYK-NEW	132.00	6	1.0258	135.40
7225	R.Y.KHN2	132.00	6	0.9945	131.27	7229	RYK-3	132.00	6	1.0045	132.59
7230	SADIQABD	132.00	6	1.0191	134.51	7231	SANJARPUR	132.00	6	1.0235	135.10
7232	JDW II USM P	132.00	6	1.0300	135.96	7235	NAWAZABD	132.00	6	1.0227	134.99
7237	RIE	132.00	6	1.0157	134.07	7240	J.D.WALI	132.00	6	1.0076	133.00
7250	MN.KH.RD	132.00	6	1.0140	133.85	7255	WAPDATWN	132.00	6	1.0033	132.43
7260	MN.BS.RD	132.00	6	0.9975	131.67	7261	PUNJAB HOSNG	132.00	6	1.0104	133.37
7262	BUCH VILLAS	132.00	6	0.9963	131.51	7265	QASIMBGH	132.00	6	0.9989	131.85
7269	RAWAN ROAD	132.00	6	1.0040	132.53	7270	MLN-IND	132.00	6	1.0007	132.09
7272	COCA COLA	132.00	6	1.0007	132.09	7273	SURAJ MIANI	132.00	6	0.9984	131.79
7275	C.T.MILL	132.00	6	0.9998	131.98	7277	APL	132.00	6	1.0000	132.00
7280	MN.VR.RD	132.00	6	0.9994	131.92	7285	QASIMPUR	132.00	6	0.9965	131.54
7287	M.JAILRD	132.00	6	0.9946	131.29	7288	SHUJABAD	132.00	6	0.9543	125.97
7289	JALALPWL	132.00	6	0.9660	127.52	7290	MESCO	132.00	6	0.9870	130.28
7300	KAPCO	132.00	6	1.0490	138.47	7320	GUJRAT.S	132.00	6	1.0275	135.64
7325	LAYYAH	132.00	6	1.0306	136.04	7328	KBGASHER	132.00	6	1.0280	135.69
7330	MZFRGARH	132.00	6	1.0124	133.64	7331	KOTADU-O	132.00	6	1.0477	138.30
7332	N.A.WALI	132.00	6	1.0320	136.22	7333	S.S.DIN	132.00	6	1.0002	132.03
7334	M GARH NEW	132.00	6	1.0152	134.01	7335	KOTSULTAN	132.00	6	1.0377	136.98
7336	KAROR L.E	132.00	6	1.0195	134.57	7337	EPGL	132.00	6	1.0200	134.64
7339	DUMMY IND	132.00	6	1.0136	133.79	7340	MEHRKHAS	132.00	6	1.0007	132.09
7350	DMR WALA	132.00	6	1.0006	132.08	7360	JATOIJNB	132.00	6	1.0036	132.48
7370	KHRPRSDT	132.00	6	1.0261	135.44	7395	SHAD.LND	132.00	6	1.0188	134.48

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	T-AHTM	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 66-132	132.00	6	1.0038	132.50	7465	KOTCHUTA	132.00	6	1.0024	132.32
7466	T-ATM	132.00	6	1.0032	132.42	7467	ATM	132.00	6	1.0032	132.42
7469	CHOTI 132	132.00	6	1.0060	132.79	7470	ROJHAN	132.00	6	1.0320	136.22
7473	DAJAL132	132.00	6	1.0023	132.30	7477	ZENFA	132.00	6	1.0382	137.04
7580	CMNT.FCT-	132.00	6	1.0078	133.03	7590	SKHISRWR	132.00	6	1.0073	132.96
7650	L.SUHANRA132	132.00	6	1.0237	135.13	7781	YAZMAN	132.00	6	1.0221	134.92
7791	MAROOT	132.00	6	1.0010	132.13	7800	KOTADDU	66.000	6	1.0438	68.893
7831	FATEHPUR	132.00	6	1.0181	134.39	7840	RANGPUR	66.000	6	1.0281	67.857
7842	T-RANGPR	66.000	6	1.0417	68.754	7880	CHAUBARA	66.000	6	1.0360	68.373
7890	NAWANKOT	66.000	6	1.0327	68.158	7891	T.NWANKOT	66.000	6	1.0329	68.169
7909	D.G.KHAN II	132.00	6	1.0015	132.20	7930	JAMPUR	132.00	6	1.0017	132.22
7933	FAZALPUR	132.00	6	1.0043	132.56	7951	RAJANPUR	132.00	6	1.0105	133.39
7959	INDUS ENERGY	132.00	6	1.0200	134.64	7970	AHMDPR.E	66.000	6	1.0029	66.192
7974	UCH.SHRF	132.00	6	0.9672	127.67	7975	KOT KHALIFA	66.000	6	0.9489	62.631
7977	T-UCHSHF	66.000	6	0.9829	64.868	7981	ALI PUR	132.00	6	1.0212	134.80
7984	HEAD-RJ-KN	132.00	6	1.0202	134.67	7996	FORT.MINRO	132.00	6	1.0075	132.99
60301	QADIRABD T-1	11.000	6	1.0184	11.202	60302	QADIRABD T-2	11.000	6	1.0184	11.202
60501	BNGAHYAT T-1	11.000	6	1.0003	11.003	60502	BNGAHYAT T-2	11.000	6	0.9994	10.993
60801	SAHIWALN T-1	11.000	6	0.9832	10.815	60802	SAHIWALN T-2	11.000	6	0.9832	10.815
60803	T-3	11.000	6	1.0234	11.258	60901	SAHWAL-O T-1	11.000	6	1.0267	11.294
60902	SAHWAL-O T-2	11.000	6	1.0044	11.049	60903	SAHWAL-O T-3	11.000	6	1.0266	11.293
60951	SWL III T-1	11.000	6	1.0256	11.281	60952	SWL III T-2	11.000	6	0.9948	10.943
60953	T-3	11.000	6	1.0156	11.171	61001	NOORPUR T-1	11.000	6	1.0200	11.220
61002	NOORPUR T-2	11.000	6	1.0076	11.084	61004	T-3	11.000	6	0.9957	10.952
61011	T-1	11.000	6	1.0046	11.050	61012	T-2	11.000	6	1.0036	11.040
61201	PAKPATAN T-1	11.000	6	0.9805	10.786	61202	PAKPATAN T-2	11.000	6	0.9805	10.786
61203	PAKPATAN T-3	11.000	6	0.9745	10.719	61301	HARAPPA T-1	11.000	6	0.9731	10.704
61302	HARAPPA T-2	11.000	6	1.0188	11.207	61401	CHCHWTNI T-1		6	1.0199	
61402	CHCHWTNI T-2	11.000	6	1.0273	11.301	61403	CHCHWTNI T-3	11.000	6	1.0151	11.166
61491	T-1	11.000	6	0.9966	10.963	61501	SH.FAZAL T-1	11.000	6	0.9614	10.575
61502	SH.FAZAL T-2	11.000	6	0.9614	10.575	61503	T-3	11.000	6	1.0377	11.415
61601	BUREWALA T-1	11.000	6	1.0403	11.443	61602	BUREWALA T-2	11.000	6	1.0079	11.087
61603	BUREWALA T-3	11.000	6	0.9791	10.770	61621	BREWLA-O T-1	11.000	6	1.0125	11.138
61622	BREWLA-O T-2	11.000	6	1.0321	11.353	61623	T-3	11.000	6	0.9618	10.580
61701	VEHARI-O T-1	11.000	6	1.0073	11.080	61702	VEHARI-O T-2	11.000	6	1.0174	11.192
61703	VEHARI-T-3	11.000	6	1.0032	11.035	61751	LUDDEN T-1	11.000	6	0.9793	10.772
61752	LUDDEN T-2	11.000	6	0.9793	10.772	61781	KARAMPUR T-1	11.000	6	1.0305	11.335

61782	KARAMPUR T-211.000	6	1.0310	11.341	61801	ARIFWALA T-311.000	6	1.0368	11.405
61802	ARIFWALA T-211.000	6	1.0368	11.405	61803	ARIFWALA T-111.000	6	0.9953	10.949
61811	T-1 11.000	6	0.9767	10.744	61812	T-2 11.000	6	0.9767	10.744
61821	KAMIRW T-1 11.000	6	0.9885	10.873	61822	KAMIR W T-2 11.000	6	0.9885	10.873
61901	BWL.NAGR T-111.000	6	0.9914	10.905	61902	T-3 11.000	6	0.9749	10.724
61903	BWL.NAGR T-311.000	6	0.9914	10.905	61911	HOTA T-1 11.000	6	0.9746	10.720
61912	HOTA T-2 11.000	6	1.0255	11.281	62001	QABULA T-1 11.000	6	1.0124	11.137
62002	QABULA T-2 11.000	6	1.0234	11.257	62003	QABULA T-3 11.000	6	1.0057	11.063
62101	SAHUKA T-1 11.000	6	1.0098	11.108	62102	SAHUKA T-2 11.000	6	1.0311	11.342
62202	HASILPUR T-211.000	6	0.9914	10.905	62203	HASILPUR T-311.000	6	0.9951	10.946
62211	CHUNAW T-1 11.000	6	1.0084	11.093	62301	CHISTIAN T-111.000	6	0.9994	10.994
62302	CHISTIAN T-211.000	6	0.9723	10.695	62303	CHISTIAO T3 11.000	6	0.9656	10.622
62321	DHRANWALA-T111.000	6	0.9639	10.603	62322	DHRANWALA-T211.000	6	0.9639	10.603
62501	MAN-KOT T-1 11.000	6	0.9991	10.990	62502	MAN-KOT T-2 11.000	6	0.9991	10.990
64151	CHISTIAN T-211.000	6	0.9778	10.756	64191	L.SOHAN T-1 11.000	6	0.9850	10.835
64211	K.P.TOMI T-111.000	6	0.9946	10.941	64212	K.P.TOMI T-211.000	6	0.9884	10.872
64621	NOORSAR T-1 11.000	6	1.0079	11.087	64622	NOORSAR T-2 11.000	6	1.0435	11.479
64821	MNCHNBAD T1 11.000	6	0.9673	10.640	64822	T-2 11.000	6	1.0199	11.219
64881	T-1 11.000	6	1.0052	11.057	64882	T-2 11.000	6	0.9767	10.744
64891	T-1 11.000	6	1.0341	11.375	64892	T-2 11.000	6	0.9813	10.795
64911	MCLD.GNJ T1 11.000	6	1.0295	11.325	64912	MCLD GNG T-2	6	1.0232	
65012	HARONABD T-211.000	6	0.9701	10.671	65013	HARONABD T-111.000	6	0.9701	10.671
65014	HARONABD T-311.000	6	0.9699	10.668	65121	FAQIRWLI-T1 11.000	6	1.0326	11.359
65122	FAQIRWLI-T2 11.000	6	0.9799	10.779	65191	T-1 11.000	6	1.0213	11.235
65192	T-2 11.000	6	0.9657	10.623	65211	FORTABAS-T1	6	0.9680	
65212	FORTABAST-2 11.000	6	0.9680	10.648	70001	MIANCHNU T1 11.000	6	1.0452	11.497
70002	MIANCHNU T-211.000	6	1.0235	11.259	70003	MIANCHNU T-311.000	6	1.0143	11.157
70011	CHAK-83-T1 11.000	6	1.0106	11.117	70012	CHAK-83-T2 11.000	6	1.0106	11.117
70061	H SIDNAI T-111.000	6	1.0136	11.150	70062	H SIDNAI T-211.000	6	1.0330	11.363
70101	KACHAKHU T-111.000	6	0.9966	10.963	70102	KACHAKHU T-211.000	6	0.9966	10.963
70103	KACHAKHU T-311.000	6	0.9966	10.963	70201	KHANEWAL T-111.000	6	1.0037	11.041
70202	KHANEWAL T-211.000	6	0.9965	10.961	70203	KHANEWAL T-311.000	6	0.9979	10.977
70301	KABIRWLA T-111.000	6	1.0204	11.225	70302	KABIRWLA T-211.000	6	1.0427	11.469
70303	KABIRWLA T-311.000	6	0.9898	10.888	70321	MP PAHOR T-111.000	6	1.0022	11.024
70322	MP PAHOR T-211.000	6	0.9637	10.601	70401	GARHMORE T-111.000	6	1.0161	11.178
70402	GARHMORE T-211.000	6	0.9714	10.685	70421	B-BANGLA T-111.000	6	1.0092	11.101
70501	JEHANIAN T-111.000	6	1.0136	11.149	70502	JEHANIAN T-211.000	6	1.0418	11.459
70503	JEHANIAN T-311.000	6	1.0096	11.106	70601	CHAK.211 T-111.000	6	1.0359	11.394
70602	CHAK 211 T-211.000	6	1.0338	11.372	70603	CHAK 211 T-311.000	6	1.0436	11.480
70701	MAILSI T-1 11.000	6	1.0439	11.483	70702	MAILSI T-2 11.000	6	1.0439	11.483
70703	MAILSI T-3 11.000	6	1.0408	11.449	70751	MUKHDM.R T-111.000	6	1.0033	11.036
70752	MUKHDM.R T-211.000	6	0.9852	10.837	71101	BASTIMLK T-111.000	6	1.0095	11.105
71102	BASTIMLK T-211.000	6	1.0075	11.083	71103	BASTIMLK T-311.000	6	1.0075	11.083

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-1	11.000	6 1.0140 11.154
71302	BU.JADID T-2	11.000	6	0.9749	10.724	71401	BHAWALPR T-1	11.000	6 1.0310 11.341
71402	BHAWALPR T-2	11.000	6	1.0293	11.322	71403	BHAWALPR T-3	11.000	6 1.0178 11.196
71405	BWP	66.000	6	1.0198	67.304	71451	BP CANTT T-1	11.000	6 1.0089 11.098
71452	BPCANTT T-2	11.000	6	1.0089	11.098	71471	KARORPCA T-1	11.000	6 1.0167 11.184
71472	KARORPCA T-2	11.000	6	1.0385	11.423	71473	KARORPCA T-3	11.000	6 1.0152 11.167
71491	DUNYAPUR T-3	11.000	6	1.0169	11.186	71492	DUNYAPUR T-4	11.000	6 1.0169 11.186
71501	SAMASATA T-1	11.000	6	0.9670	10.637	71502	SAMASATA T-2	11.000	6 0.9670 10.637
71591	MUB-PUR-T1	11.000	6	0.9709	10.679	71592	MUB-PUR-T2	11.000	6 0.9709 10.679
71601	LIAQATPR T-1	11.000	6	0.9816	10.797	71602	LIAQATPR T-2	11.000	6 0.9816 10.797
71702	AHMDPR.E T-2	11.000	6	0.9900	10.891	71703	AHMDPR.E T-3	11.000	6 1.0015 11.016
71704	AHMDPR.E T4	11.000	6	1.0041	11.045	71801	FEROZA T-1	11.000	6 1.0453 11.498
71802	FEROZA T-2	11.000	6	1.0339	11.373	71851	KHANBELA T-1	11.000	6 0.9646 10.610
71852	KHANBELA T-2		6	1.0416		72001	KHANPUR T-1	11.000	6 0.9608 10.569
72002	KHANPUR T-2	11.000	6	0.9648	10.613	72003	KHANPUR T-3	11.000	6 0.9767 10.744
72101	MWQRSHIA T-1	11.000	6	1.0415	11.456	72102	MWQRSHIA T2	11.000	6 1.0281 11.309
72103	T-3	11.000	6	1.0358	11.394	72201	R.Y.KHAN T-1	11.000	6 1.0074 11.081
72202	R.Y.KHAN T-2	11.000	6	0.9701	10.672	72203	R.Y.KHAN T-3	11.000	6 1.0128 11.141
72204	T-4	11.000	6	0.9998	10.998	72251	R.Y.KHN2 T-1	11.000	6 0.9828 10.811
72252	R.Y.KHN2 T-2	11.000	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	T-2	11.000	6 0.9962 10.958
72301	SADIQABD T-1	11.000	6	1.0279	11.307	72302	SADIQABD T-2	11.000	6 1.0279 11.307
72303	SADIQABD T-3	11.000	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-1	11.000	6	0.9862	10.849	72402	JDWALI T-2	11.000	6 0.9615 10.577
72403	J D WALI T-3	11.000	6	1.0303	11.333	72501	MN.KH.RD T-1	11.000	6 1.0079 11.086
72502	MN.KH.RD T-2	11.000	6	1.0079	11.086	72503	MN.KH.RD T-3	11.000	6 1.0079 11.086
72551	WAP TO T-1	11.000	6	1.0279	11.307	72552	WAPDA TO T-2	11.000	6 1.0020 11.022
72554	T-3	11.000	6	0.9940	10.934	72601	MN.BS.RD T-1	11.000	6 1.0016 11.018
72602	MN.BS.RD T-2	11.000	6	0.9619	10.581	72603	MN.BS.RD T-3	11.000	6 1.0016 11.018
72611	PNJB HSG T-1	11.000	6	1.0085	11.094	72612	PNJB HSG T-2	11.000	6 1.0085 11.094
72621	BUCH VLS T-1	11.000	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
72692	T-2	11.000	6	0.9838	10.821	72701	MLN-IND T-1	11.000	6 1.0269 11.296
72702	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-1	11.000	6	1.0307	11.338	72732	SURJ MNI T-2	11.000	6 1.0171 11.189
72801	MN.VR.RD T-1	11.000	6	0.9975	10.972	72802	MN.VR.RD T-2	11.000	6 1.0271 11.298
72803	MN.VR.RD T-3	11.000	6	1.0117	11.129	72851	QASIMPUR T-1	11.000	6 1.0091 11.100
72852	QASIMPUR T-2	11.000	6	0.9593	10.553	72853	QASIMPUR T-3	11.000	6 1.0171 11.188

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-1	11.000	6	1.0063	11.069	72882	SHUJABAD T-2	11.000	6 1.0069 11.076
72883	SHUJABAD T-3	11.000	6	0.9833	10.817	72891	J.P.W T-1	11.000	6 1.0145 11.160
72892	J.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	GUJRAT.S T1	11.000	6 1.0165 11.182
73202	GUJRAT.S T3	11.000	6	1.0257	11.283	73203	GUJRAT.S T2	11.000	6 1.0167 11.184
73251	LAYYAH T-1	11.000	6	1.0325	11.357	73252	LAYYAH T-2	11.000	6 1.0325 11.357
73253	LAYYAH T-3	11.000	6	1.0333	11.366	73281	KBGASHER T-1	11.000	6 1.0162 11.178
73282	KBGASHER T-2	11.000	6	1.0173	11.190	73301	MZFRGARH T-1	11.000	6 0.9822 10.804
73302	MZFRGARH T-2	11.000	6	0.9813	10.794	73303	MZFRGARH T-3	11.000	6 0.9822 10.804
73312	KOTADU-O T-2	11.000	6	1.0460	11.506	73313	KOTADU-O T-3	11.000	6 1.0422 11.464
73314	KOTADU-O T-4	11.000	6	1.0269	11.296	73321	N.A.WALI T-2	11.000	6 1.0216 11.238
73322	N.A.WALI T-1	11.000	6	1.0262	11.288	73331	S S DIN T1	11.000	6 1.0078 11.086
73332	S S DIN T2	11.000	6	0.9883	10.871	73351	KOTSULTAN-T1	11.000	6 1.0254 11.279
73352	KOTSULTAN-T2	11.000	6	1.0397	11.437	73361	KAROR L.E-T1	11.000	6 0.9993 10.992
73362	KAROR L.E-T2		6	0.9993		73401	MEHRKHAS T-1	11.000	6 0.9769 10.746
73402	MEHRKHAS T-2	11.000	6	0.9769	10.746	73403	MEHRKHAS T-3		6 0.9901
73501	DMR WALA T-1	11.000	6	1.0162	11.178	73502	DMR WALA T-2	11.000	6 0.9974 10.971
73601	JATOIJNB T-1	11.000	6	0.9925	10.918	73602	JATOIJNB T-2	11.000	6 0.9689 10.658
73603	T-3	11.000	6	0.9844	10.828	73701	KHRPRSDT T-1	11.000	6 1.0210 11.231
73702	KHPRSDT T-2	11.000	6	1.0223	11.245	73951	SHA.LND T-1	11.000	6 1.0123 11.135
73952	SHA LND T-2	11.000	6	0.9874	10.862	74001	TAUNSA T-1	11.000	6 0.9900 10.890
74002	TAUNSA T-2	11.000	6	0.9900	10.890	74003	T-3	11.000	6 1.0147 11.161
74401	CHOKMNDA T-1	11.000	6	1.0285	11.313	74402	CHOKMNDA T-2	11.000	6 1.0229 11.252
74502	CHAUBARA T-2	11.000	6	1.0284	11.312	74562	CHOKAZAM T1	11.000	6 1.0392 11.432
74563	T-3	11.000	6	1.0136	11.149	74591	KHANGARH T-1	11.000	6 0.9793 10.773
74592	KHANGARH T-2	11.000	6	0.9818	10.800	74602	D.G.KHAN T-2	11.000	6 1.0053 11.058
74603	D.G.KHAN T-3	11.000	6	1.0081	11.089	74604	D.G.KHAN T-4	11.000	6 0.9954 10.949
74641	T-1	11.000	6	0.9937	10.931	74651	KOTCHUTA T-1	11.000	6 0.9842 10.826
74652	KOTCHUTA T-2	11.000	6	0.9842	10.826	74653	KOTCHUTTA T3	11.000	6 0.9887 10.876
74691	CHOTI T-1	11.000	6	0.9904	10.894	74701	ROJHAN T-1	11.000	6 1.0027 11.030
74731	T-1	11.000	6	0.9925	10.917	75901	SKHISRWR T-1	11.000	6 0.9884 10.872
75902	SKISRWR T-2	11.000	6	0.9752	10.727	77811	YAZMAN-T-1	11.000	6 1.0014 11.016
77812	YAZMAN T-2	11.000	6	1.0014	11.016	77911	MAROOT T1	11.000	6 0.9901 10.891
77912	MAROOT T-2	11.000	6	1.0358	11.394	78311	FATEHPUR T-1	11.000	6 1.0007 11.008
78312	FATEPUR T-2	11.000	6	1.0197	11.217	78313	T-3	11.000	6 1.0419 11.461
78401	T1	11.000	6	1.0052	11.058	78901	NAWANKOT T-1	11.000	6 1.0202 11.222
79091	D.G.K.II T-1	11.000	6	1.0218	11.240	79092	D.G.K.II T-2	11.000	6 1.0100 11.110
79301	JAMPUR T-1	11.000	6	0.9885	10.873	79302	JAMPUR T-2	11.000	6 1.0064 11.070
79331	FAZALPUR T-1	11.000	6	0.9951	10.946	79332	FAZALPUR T-2	11.000	6 0.9864 10.850
79511	RAJANPUR T-1	11.000	6	1.0039	11.043	79512	RAJANPUR T-2	11.000	6 1.0039 11.043
79513	RAJANPUR T-3		6	0.9768		79741	UCH.SHRF T-2	11.000	6 1.0104 11.114

79742	UCH.SHRF T-3	11.000	6	0.9878	10.866	79743	UCH.SHRF T-1	11.000	6 1.0171 11.188
79751	UCH (KF) T-1	11.000	6	1.0116	11.128	79752	T-2		6 0.9637
79811	ALI PUR T-1	11.000	6	1.0016	11.018	79812	ALIPUR T-2	11.000	6 0.9706 10.677
79813	ALIPUR T-3	11.000	6	1.0130	11.144	79841	H.R. KAN T1	11.000	6 1.0387 11.425
79842	T-2	11.000	6	1.0052	11.058	79961	FRT MNRO T-1	11.000	6 1.0039 11.043
732512	LSM-132KV	132.00	6	1.0303	136.00				

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 BUKSHA	66.000	6	0.9175	60.556	304	T-1	11.000	6	0.9074	9.981
401	T-3	11.000	6	0.9853	10.839	502	T-3	11.000	6	0.9912	10.903
529	PARCO	220.00	6	1.0386	228.50	5282	FATMA ENERGY	132.00	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-SOLAR	132.00	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	MULTAN-N	132.00	6	1.0094	133.24	7000	MIANCHNU	132.00	6	0.9725	128.37

7001	CHAK-83-132	132.00	6	0.9885	130.48	7002	KASSOWAL	132.00	6	1.0085	133.13
7006	HEAD SIDHNAI	132.00	6	0.9666	127.59	7010	KACHAKHU	132.00	6	0.9649	127.37
7020	KHANEWAL	132.00	6	0.9763	128.87	7029	FAUJI-K	132.00	6	1.0000	132.00
7030	KABIRWLA	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	JEHANIAN	132.00	6	0.9685	127.84	7060	CHAK.211	132.00	6	0.9559	126.17
7070	MAILSI	132.00	6	0.9603	126.75	7075	MUKHDM.R	132.00	6	0.9689	127.89
7100	P.GAIB-1	132.00	6	1.0024	132.31	7109	P.GAIB-2	132.00	6	0.9932	131.11
7110	BASTIMLK	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	1.0247	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	1.0177	134.33	7231	SANJARPUR	132.00	6	1.0221	134.91
7232	JDW II USM P	132.00	6	1.0300	135.96	7235	NAWAZABD	132.00	6	1.0211	134.79
7237	RIE	132.00	6	1.0144	133.90	7240	J.D.WALI	132.00	6	1.0056	132.73
7250	MN.KH.RD	132.00	6	1.0058	132.76	7255	WAPDATWN	132.00	6	0.9941	131.23
7260	MN.BS.RD	132.00	6	0.9878	130.39	7261	PUNJAB HOSNG	132.00	6	1.0019	132.25
7262	BUCH VILLAS	132.00	6	0.9863	130.19	7265	QASIMBGH	132.00	6	0.9897	130.64
7269	RAWAN ROAD	132.00	6	0.9954	131.39	7270	MLN-IND	132.00	6	0.9904	130.74
7272	COCA COLA	132.00	6	0.9904	130.74	7273	SURAJ MIANI	132.00	6	0.9882	130.44
7275	C.T.MILL	132.00	6	0.9896	130.63	7277	APL	132.00	6	0.9806	129.44
7280	MN.VR.RD	132.00	6	0.9902	130.71	7285	QASIMPUR	132.00	6	0.9871	130.29
7287	M.JAILRD	132.00	6	0.9841	129.90	7288	SHUJABAD	132.00	6	0.9417	124.31
7289	JALALPWL	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	GUJRAT.S	132.00	6	1.0215	134.84
7325	LAYYAH	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-O	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

7400	TAUNSA	132.00	6	1.0071	132.94	7435	PARCO	132.00	6	1.0098	133.30
7436	T-PARCO	132.00	6	1.0096	133.27	7440	CHOKMNDA	132.00	6	1.0373	136.93
7442	T-AHTM	132.00	6	1.0414	137.47	7443	AHTM	132.00	6	1.0414	137.46
7450	CHAUBARA	132.00	6	1.0348	136.59	7456	CHOKAZAM	132.00	6	1.0258	135.41
7459	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 66-132	132.00	6	0.9948	131.32	7465	KOTCHUTA	132.00	6	0.9965	131.53
7466	T-ATM	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.SUHANRA132	132.00	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 II	132.00	6	0.9967	131.56	7930	JAMPUR	132.00	6	0.9999	131.99
7933	FAZALPUR	132.00	6	1.0028	132.37	7951	RAJANPUR	132.00	6	1.0098	133.30
7959	INDUS ENERGY	132.00	6	1.0200	134.64	7970	AHMDPR.E	66.000	6	0.9933	65.559
7974	UCH.SHRF	132.00	6	0.9609	126.83	7975	KOT KHALIFA	66.000	6	0.9341	61.648
7977	T-UCHSHF	66.000	6	0.9707	64.063	7981	ALI PUR	132.00	6	0.9747	128.67
7984	HEAD-RJ-KN	132.00	6	1.0120	133.58	7996	FORT.MINRO	132.00	6	1.0040	132.52
60301	QADIRABD T-1	11.000	6	1.0097	11.106	60302	QADIRABD T-2	11.000	6	1.0097	11.106
60501	BNGAHYAT T-1	11.000	6	0.9910	10.901	60502	BNGAHYAT T-2	11.000	6	0.9892	10.881
60801	SAHIWALN T-1	11.000	6	0.9743	10.717	60802	SAHIWALN T-2	11.000	6	0.9743	10.717
60803	T-3	11.000	6	1.0174	11.191	60901	SAHWAL-O T-1	11.000	6	1.0187	11.205
60902	SAHWAL-O T-2	11.000	6	0.9969	10.966	60903	SAHWAL-O T-3	11.000	6	1.0186	11.205
60951	SWL III T-1	11.000	6	1.0170	11.187	60952	SWL III T-2	11.000	6	0.9871	10.858
60953	T-3	11.000	6	1.0085	11.093	61001	NOORPUR T-1	11.000	6	1.0110	11.121
61002	NOORPUR T-2	11.000	6	0.9991	10.990	61004	T-3	11.000	6	0.9880	10.868
61011	T-1	11.000	6	0.9978	10.976	61012	T-2	11.000	6	0.9968	10.965
61201	PAKPATAN T-1	11.000	6	0.9700	10.670	61202	PAKPATAN T-2	11.000	6	0.9700	10.670
61203	PAKPATAN T-3	11.000	6	0.9640	10.603	61301	HARAPPA T-1	11.000	6	0.9635	10.598
61302	HARAPPA T-2	11.000	6	1.0083	11.092	61401	CHCHWTNI T-1		6	1.0079	
61402	CHCHWTNI T-2	11.000	6	1.0151	11.166	61403	CHCHWTNI T-3	11.000	6	1.0029	11.032
61491	T-1	11.000	6	0.9862	10.849	61501	SH.FAZAL T-1	11.000	6	0.9430	10.373
61502	SH.FAZAL T-2	11.000	6	0.9430	10.373	61503	T-3	11.000	6	1.0194	11.213
61601	BUREWALA T-1	11.000	6	1.0164	11.181	61602	BUREWALA T-2	11.000	6	0.9838	10.822
61603	BUREWALA T-3	11.000	6	0.9573	10.530	61621	BREWLA-O T-1	11.000	6	0.9829	10.812
61622	BREWLA-O T-2	11.000	6	1.0006	11.006	61623	T-3	11.000	6	0.9350	10.285
61701	VEHARI-O T-1	11.000	6	0.9792	10.772	61702	VEHARI-O T-2	11.000	6	0.9843	10.827
61703	VEHARI-T-3	11.000	6	0.9707	10.677	61751	LUDDEN T-1	11.000	6	0.9532	10.486
61752	LUDDEN T-2	11.000	6	0.9532	10.486	61781	KARAMPUR T-1	11.000	6	1.0057	11.062

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	T-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	KAMIR W T-2 11.000	6	0.9752	10.727
61901	BWL.NAGR T-111.000	6	0.9720	10.692	61902	T-3 11.000	6	0.9564	10.521
61903	BWL.NAGR T-311.000	6	0.9720	10.692	61911	HOTA T-1 11.000	6	0.9550	10.505
61912	HOTA T-2 11.000	6	1.0053	11.058	62001	QABULA T-1 11.000	6	0.9995	10.995
62002	QABULA T-2 11.000	6	1.0120	11.132	62003	QABULA T-3 11.000	6	0.9928	10.921
62101	SAHUKA T-1 11.000	6	0.9819	10.801	62102	SAHUKA T-2 11.000	6	1.0028	11.031
62202	HASILPUR T-211.000	6	0.9700	10.670	62203	HASILPUR T-311.000	6	0.9738	10.712
62211	CHUNAW T-1 11.000	6	0.9894	10.884	62301	CHISTIAN T-111.000	6	0.9737	10.711
62302	CHISTIAN T-211.000	6	0.9470	10.417	62303	CHISTIAO T3 11.000	6	0.9380	10.318
62321	DHRANWALA-T111.000	6	0.9379	10.317	62322	DHRANWALA-T211.000	6	0.9379	10.317
62501	MAN-KOT T-1 11.000	6	0.9894	10.884	62502	MAN-KOT T-2 11.000	6	0.9894	10.884
64151	CHISTIAN T-211.000	6	0.9429	10.372	64191	L.SOHAN T-1 11.000	6	0.9699	10.668
64211	K.P.TOMI T-111.000	6	0.9761	10.737	64212	K.P.TOMI T-211.000	6	0.9715	10.686
64621	NOORSAR T-1 11.000	6	0.9848	10.833	64622	NOORSAR T-2 11.000	6	1.0205	11.226
64821	MNCHNBAD.T1 11.000	6	0.9415	10.356	64822	T-2 11.000	6	0.9942	10.936
64881	T-1 11.000	6	0.9809	10.789	64882	T-2 11.000	6	0.9538	10.491
64891	T-1 11.000	6	1.0028	11.031	64892	T-2 11.000	6	0.9515	10.467
64911	MCLD.GNJ T1 11.000	6	1.0027	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
70002	MIANCHNU T-211.000	6	1.0106	11.117	70003	MIANCHNU T-311.000	6	1.0025	11.027
70011	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	KACHAKHU T-111.000	6	0.9872	10.860	70102	KACHAKHU T-211.000	6	0.9872	10.860
70103	KACHAKHU T-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	6	1.0122	11.135
70602	CHAK 211 T-211.000	6	1.0101	11.111	70603	CHAK 211 T-311.000	6	1.0221	11.243
70701	MAILSI T-1 11.000	6	1.0216	11.238	70702	MAILSI T-2 11.000	6	1.0216	11.238
70703	MAILSI T-3 11.000	6	1.0174	11.191	70751	MUKHDM.R T-111.000	6	0.9852	10.837
70752	MUKHDM.R T-211.000	6	0.9695	10.665	71101	BASTIMLK T-111.000	6	0.9951	10.946
71102	BASTIMLK T-211.000	6	0.9932	10.925	71103	BASTIMLK T-311.000	6	0.9932	10.925

71151	MIRAN P T-1	11.000	6	0.9970	10.967	71152	MIRAN P T-2	11.000	6 0.9970 10.967
71201	LODHRAN T-1	11.000	6	1.0039	11.042	71202	LODHRAN T-2	11.000	6 1.0039 11.042
71203	LODHRAN T-3	11.000	6	1.0160	11.176	71251	LART-1	11.000	6 0.9831 10.814
71252	LAR T-2	11.000	6	0.9831	10.814	71301	BU.JADID T-1	11.000	6 1.0060 11.066
71302	BU.JADID T-2	11.000	6	0.9688	10.657	71401	BHAWALPR T-1	11.000	6 1.0193 11.213
71402	BHAWALPR T-2	11.000	6	1.0175	11.193	71403	BHAWALPR T-3	11.000	6 1.0064 11.070
71405	BWP	66.000	6	1.0103	66.678	71451	BP CANTT T-1	11.000	6 1.0030 11.033
71452	BPCANTT T-2	11.000	6	1.0030	11.033	71471	KARORPCA T-1	11.000	6 0.9954 10.950
71472	KARORPCA T-2	11.000	6	1.0199	11.219	71473	KARORPCA T-3	11.000	6 0.9942 10.936
71491	DUNYAPUR T-3	11.000	6	0.9971	10.968	71492	DUNYAPUR T-4	11.000	6 0.9971 10.968
71501	SAMASATA T-1	11.000	6	0.9610	10.571	71502	SAMASATA T-2	11.000	6 0.9610 10.571
71591	MUB-PUR-T1	11.000	6	0.9643	10.607	71592	MUB-PUR-T2	11.000	6 0.9643 10.607
71601	LIAQATPR T-1	11.000	6	0.9730	10.704	71602	LIAQATPR T-2	11.000	6 0.9730 10.704
71702	AHMDPR.E T-2	11.000	6	0.9798	10.778	71703	AHMDPR.E T-3	11.000	6 0.9937 10.931
71704	AHMDPR.E T4	11.000	6	0.9955	10.950	71801	FEROZA T-1	11.000	6 1.0397 11.437
71802	FEROZA T-2	11.000	6	1.0253	11.279	71851	KHANBELA T-1	11.000	6 0.9553 10.508
71852	KHANBELA T-2		6	1.0329		72001	KHANPUR T-1	11.000	6 0.9526 10.479
72002	KHANPUR T-2	11.000	6	0.9573	10.530	72003	KHANPUR T-3	11.000	6 0.9709 10.680
72101	MWQRSHIA T-1	11.000	6	1.0339	11.373	72102	MWQRSHIA T2	11.000	6 1.0202 11.222
72103	T-3	11.000	6	1.0294	11.324	72201	R.Y.KHAN T-1	11.000	6 1.0093 11.103
72202	R.Y.KHAN T-2	11.000	6	0.9722	10.695	72203	R.Y.KHAN T-3	11.000	6 1.0147 11.161
72204	T-4	11.000	6	0.9995	10.995	72251	R.Y.KHN2 T-1	11.000	6 0.9755 10.730
72252	R.Y.KHN2 T-2	11.000	6	0.9723	10.695	72253	T-3	11.000	6 0.9573 10.531
72291	T-1	11.000	6	0.9951	10.946	72292	T-2	11.000	6 0.9951 10.946
72301	SADIQABD T-1	11.000	6	1.0243	11.267	72302	SADIQABD T-2	11.000	6 1.0243 11.267
72303	SADIQABD T-3	11.000	6	1.0387	11.425	72304	LALPIR	11.000	6 1.0100 11.110
72311	WALANA T-1	11.000	6	1.0082	11.090	72312	WALANA T-2	11.000	6 1.0130 11.143
72351	NAWAZ T-1	11.000	6	0.9773	10.750	72352	NAWAZAB T-2	11.000	6 1.0111 11.122
72401	J.D.WALI T-1	11.000	6	0.9825	10.808	72402	JDWALI T-2	11.000	6 0.9574 10.531
72403	J D WALI T-3	11.000	6	1.0271	11.298	72501	MN.KH.RD T-1	11.000	6 0.9988 10.987
72502	MN.KH.RD T-2	11.000	6	0.9944	10.939	72503	MN.KH.RD T-3	11.000	6 0.9988 10.987
72551	WAP TO T-1	11.000	6	1.0178	11.196	72552	WAPDA TO T-2	11.000	6 0.9918 10.910
72554	T-3	11.000	6	0.9844	10.829	72601	MN.BS.RD T-1	11.000	6 0.9873 10.860
72602	MN.BS.RD T-2	11.000	6	0.9493	10.442	72603	MN.BS.RD T-3	11.000	6 0.9873 10.860
72611	PNJB HSG T-1	11.000	6	0.9990	10.989	72612	PNJB HSG T-2	11.000	6 0.9990 10.989
72621	BUCH VLS T-1	11.000	6	1.0100	11.110	72651	Q BAGH T-1	11.000	6 0.9686 10.655
72652	Q BAGH T-2	11.000	6	0.9749	10.724	72691	T-1	11.000	6 0.9748 10.723
72692	T-2	11.000	6	0.9748	10.723	72701	MLN-IND T-1	11.000	6 1.0145 11.160
72702	MLN-IND T-2	11.000	6	0.9512	10.464	72703	MLN-IND T-3	11.000	6 1.0024 11.027
72731	SURJ MNI T-1	11.000	6	1.0188	11.207	72732	SURJ MNI T-2	11.000	6 1.0057 11.062
72801	MN.VR.RD T-1	11.000	6	0.9851	10.836	72802	MN.VR.RD T-2	11.000	6 1.0146 11.161
72803	MN.VR.RD T-3	11.000	6	1.0003	11.003	72851	QASIMPUR T-1	11.000	6 0.9950 10.944
72852	QASIMPUR T-2	11.000	6	0.9470	10.417	72853	QASIMPUR T-3	11.000	6 1.0031 11.034

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-1	11.000	6	0.9903	10.893	72882	SHUJABAD T-2	11.000	6 0.9911 10.902
72883	SHUJABAD T-3	11.000	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-1	11.000	6 1.0102 11.112
73282	KBGASHER T-2	11.000	6	1.0114	11.125	73301	MZFRGARH T-1	11.000	6 0.9670 10.637
73302	MZFRGARH T-2	11.000	6	0.9660	10.626	73303	MZFRGARH T-3	11.000	6 0.9670 10.637
73312	KOTADU-O T-2	11.000	6	1.0445	11.490	73313	KOTADU-O T-3	11.000	6 1.0402 11.442
73314	KOTADU-O T-4	11.000	6	1.0256	11.282	73321	N.A.WALI T-2	11.000	6 1.0199 11.219
73322	N.A.WALI T-1	11.000	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-T1	11.000	6 1.0227 11.250
73352	KOTSULTAN-T2	11.000	6	1.0367	11.403	73361	KAROR L.E-T1	11.000	6 0.9942 10.936
73362	KAROR L.E-T2		6	0.9942		73401	MEHRKHAS T-1	11.000	6 0.9428 10.371
73402	MEHRKHAS T-2	11.000	6	0.9428	10.371	73403	MEHRKHAS T-3		6 0.9573
73501	DMR WALA T-1	11.000	6	0.9730	10.703	73502	DMR WALA T-2	11.000	6 0.9599 10.558
73601	JATOIJNB T-1	11.000	6	0.9384	10.323	73602	JATOIJNB T-2	11.000	6 0.9029 9.932
73603	T-3	11.000	6	0.9389	10.328	73701	KHRPRSDT T-1	11.000	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	T-3	11.000	6 1.0126 11.139
74401	CHOKMNDA T-1	11.000	6	1.0260	11.286	74402	CHOKMNDA T-2	11.000	6 1.0205 11.225
74502	CHAUBARA T-2	11.000	6	1.0239	11.263	74562	CHOKAZAM T1	11.000	6 1.0342 11.376
74563	T-3	11.000	6	1.0098	11.108	74591	KHANGARH T-1	11.000	6 0.9530 10.483
74592	KHANGARH T-2	11.000	6	0.9571	10.528	74602	D.G.KHAN T-2	11.000	6 0.9998 10.997
74603	D.G.KHAN T-3	11.000	6	1.0025	11.028	74604	D.G.KHAN T-4	11.000	6 0.9896 10.885
74641	T-1	11.000	6	0.9701	10.671	74651	KOTCHUTA T-1	11.000	6 0.9776 10.753
74652	KOTCHUTA T-2	11.000	6	0.9776	10.753	74653	KOTCHUTTA T3	11.000	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	T-1	11.000	6	0.9832	10.815	75901	SKHISRWR T-1	11.000	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-1	11.000	6 0.9952 10.947
78312	FATEPUR T-2	11.000	6	1.0137	11.151	78313	T-3	11.000	6 1.0374 11.411
78401	T1	11.000	6	1.0012	11.013	78901	NAWANKOT T-1	11.000	6 1.0163 11.180
79091	D.G.K.II T-1	11.000	6	1.0156	11.172	79092	D.G.K.II T-2	11.000	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-1	11.000	6	0.9914	10.905	79332	FAZALPUR T-2	11.000	6 0.9829 10.812
79511	RAJANPUR T-1	11.000	6	1.0028	11.031	79512	RAJANPUR T-2	11.000	6 1.0028 11.031
79513	RAJANPUR T-3		6	0.9753		79741	UCH.SHRF T-2	11.000	6 1.0009 11.010

79742	UCH.SHRF T-3	11.000	6	0.9790	10.769	79743	UCH.SHRF T-1	11.000	6 1.0071 11.078
79751	UCH (KF) T-1	11.000	6	0.9913	10.904	79752	T-2		6 0.9456
79811	ALI PUR T-1	11.000	6	0.9422	10.364	79812	ALIPUR T-2	11.000	6 0.9117 10.029
79813	ALIPUR T-3	11.000	6	0.9592	10.552	79841	H.R. KAN T1	11.000	6 1.0298 11.328
79842	T-2	11.000	6	0.9963	10.959	79961	FRT MNRO T-1	11.000	6 1.0004 11.004
732512	LSM-132KV	132.00	6	1.0275	135.63				

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 --	X BASKV	AREA	V(PU)	V(KV)	BUS#	X-- NAME --	X BASKV	AREA	V(PU)	V(KV)
401	T-3	11.000	6	0.9973	10.970	502	T-3	11.000	6	1.0073	11.081
529	PARCO	220.00	6	1.0386	228.50	5282	FATMA ENERGY	132.00	6	1.0200	134.64
5283	FAZAL CLOTH	132.00	6	1.0193	134.55	6030	QADIRABD	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-O	132.00	6	1.0003	132.04
6231	CHSTAN-N	132.00	6	1.0064	132.84	6232	DHARWALA132	132.00	6	0.9949	131.32
6238	BUKHSHAN 132	132.00	6	1.0041	132.54	6239	CHISTIAN 132	132.00	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-GREEN	132.00	6	1.0200	134.64
6421	K.P.TOMI	132.00	6	0.9894	130.60	6422	APPOLO-SOLAR	132.00	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 BNGA	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	KHICHIWALA	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

7000	MIANCHNU	132.00	6	0.9806	129.43	7001	CHAK-83-132	132.00	6	0.9959	131.46
7002	KASSOWAL	132.00	6	1.0176	134.32	7006	HEAD SIDHNAI	132.00	6	0.9715	128.24
7010	KACHAKHU	132.00	6	0.9707	128.13	7020	KHANEWAL	132.00	6	0.9804	129.42
7029	FAUJI-K	132.00	6	1.0000	132.00	7030	KABIRWLA	132.00	6	0.9760	128.83
7032	MP.PAHOR	132.00	6	0.9680	127.78	7040	GARHMORE	132.00	6	0.9885	130.48
7042	B-BANGLA	132.00	6	0.9675	127.71	7050	JEHANIAN	132.00	6	0.9816	129.57
7060	CHAK.211	132.00	6	0.9701	128.05	7070	MAILSI	132.00	6	0.9750	128.70
7075	MUKHDM.R	132.00	6	0.9798	129.34	7100	P.GAIB-1	132.00	6	1.0179	134.37
7109	P.GAIB-2	132.00	6	1.0011	132.15	7110	BASTIMLK	132.00	6	0.9829	129.75
7115	MIRAN PUR	132.00	6	0.9838	129.86	7120	LODHRAN	132.00	6	1.0086	133.13
7125	LAR	132.00	6	0.9833	129.79	7130	BU.JADID	132.00	6	1.0059	132.78
7138	BWPN-2	132.00	6	1.0008	132.10	7139	B.W.P-N	132.00	6	1.0375	136.95
7140	BHAWALPR	132.00	6	1.0210	134.77	7141	LODHRAN-2	132.00	6	1.0187	134.47
7145	BPUR CANTT	132.00	6	1.0302	135.98	7146	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 P	132.00	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 HOSNG	132.00	6	1.0174	134.30	7262	BUCH VILLAS	132.00	6	1.0037	132.49
7265	QASIMBGH	132.00	6	1.0063	132.83	7269	RAWAN ROAD	132.00	6	1.0110	133.46
7270	MLN-IND	132.00	6	1.0068	132.89	7272	COCA COLA	132.00	6	1.0068	132.89
7273	SURAJ MIANI	132.00	6	1.0051	132.68	7275	C.T.MILL	132.00	6	1.0059	132.78
7277	APL	132.00	6	1.0000	132.00	7280	MN.VR.RD	132.00	6	1.0068	132.90
7285	QASIMPUR	132.00	6	1.0049	132.64	7287	M.JAILRD	132.00	6	1.0012	132.16
7288	SHUJABAD	132.00	6	0.9641	127.26	7289	JALALPWL	132.00	6	0.9722	128.33
7290	MESCO	132.00	6	0.9957	131.43	7300	KAPCO	132.00	6	1.0490	138.47
7320	GUJRAT.S	132.00	6	1.0312	136.12	7325	LAYYAH	132.00	6	1.0281	135.71
7328	KBGASHER	132.00	6	1.0299	135.95	7330	MZFRGARH	132.00	6	1.0179	134.36
7331	KOTADU-O	132.00	6	1.0476	138.28	7332	N.A.WALI	132.00	6	1.0320	136.22
7333	S.S.DIN	132.00	6	1.0102	133.34	7334	M GARH NEW	132.00	6	1.0188	134.49
7335	KOTSULTAN	132.00	6	1.0360	136.76	7336	KAROR L.E	132.00	6	1.0161	134.13
7337	EPGL	132.00	6	1.0200	134.64	7339	DUMMY IND	132.00	6	1.0175	134.31
7340	MEHRKHAS	132.00	6	1.0070	132.92	7350	DMR WALA	132.00	6	1.0058	132.76
7360	JATOIJNB	132.00	6	1.0087	133.15	7370	KHRPRSDT	132.00	6	1.0228	135.01

7395	SHAD.LND	132.00	6	1.0184	134.43	7400	TAUNSA	132.00	6	1.0079	133.05
7412	P.GHAIB132KV	132.00	6	1.0147	133.95	7413	SHAH JAMAL	132.00	6	1.0188	134.49
7435	PARCO	132.00	6	1.0137	133.81	7436	T-PARCO	132.00	6	1.0135	133.78
7440	CHOKMNDA	132.00	6	1.0374	136.94	7442	T-AHTM	132.00	6	1.0415	137.47
7443	AHTM	132.00	6	1.0414	137.47	7450	CHAUBARA	132.00	6	1.0350	136.62
7456	CHOKAZAM	132.00	6	1.0261	135.44	7459	KHANGARH	132.00	6	1.0119	133.57
7460	D.G.KHAN	132.00	6	1.0188	134.49	7462	MDC-DGK	132.00	6	1.0198	134.61
7463	CPC-DGK	132.00	6	1.0185	134.44	7464	JAMPR 66-132	132.00	6	1.0101	133.33
7465	KOTCHUTA	132.00	6	1.0134	133.77	7466	T-ATM	132.00	6	1.0171	134.26
7467	ATM	132.00	6	1.0171	134.26	7469	CHOTI 132	132.00	6	1.0167	134.20
7470	ROJHAN	132.00	6	1.0321	136.24	7473	DAJAL132	132.00	6	1.0086	133.13
7477	ZENFA	132.00	6	1.0359	136.74	7580	CMNT.FCT	132.00	6	1.0197	134.60
7590	SKHISRWR	132.00	6	1.0175	134.31	7650	L.SUHANRA132	132.00	6	1.0239	135.15
7781	YAZMAN	132.00	6	1.0214	134.83	7791	MAROOT	132.00	6	1.0206	134.72
7800	KOTADDU	66.000	6	1.0433	68.855	7831	FATEHPUR	132.00	6	1.0148	133.95
7840	RANGPUR	66.000	6	1.0262	67.728	7842	T-RANGPR	66.000	6	1.0410	68.703
7880	CHAUBARA	66.000	6	1.0335	68.209	7890	NAWANKOT	66.000	6	1.0299	67.977
7891	T.NWANKOT	66.000	6	1.0301	67.988	7909	D.G.KHAN II	132.00	6	1.0161	134.12
7930	JAMPUR	132.00	6	1.0140	133.85	7933	FAZALPUR	132.00	6	1.0111	133.46
7951	RAJANPUR	132.00	6	1.0129	133.71	7959	INDUS ENERGY	132.00	6	1.0200	134.64
7970	AHMDPR.E	66.000	6	0.9950	65.672	7974	UCH.SHRF	132.00	6	0.9620	126.99
7975	KOT KHALIFA	66.000	6	0.9364	61.800	7977	T-UCHSHF	66.000	6	0.9727	64.198
7981	ALI PUR	132.00	6	1.0181	134.39	7982	JATOI-2	132.00	6	1.0099	133.31
7984	HEAD-RJ-KN	132.00	6	1.0194	134.56	7996	FORT.MINRO	132.00	6	1.0176	134.33
60301	QADIRABD T-1	11.000	6	1.0140	11.154	60302	QADIRABD T-2	11.000	6	1.0140	11.154
60501	BNGAHYAT T-1	11.000	6	0.9946	10.940	60502	BNGAHYAT T-2	11.000	6	0.9928	10.921
60801	SAHIWALN T-1	11.000	6	0.9792	10.772	60802	SAHIWALN T-2	11.000	6	0.9792	10.772
60803	T-3	11.000	6	1.0219	11.241	60901	SAHWAL-O T-1	11.000	6	1.0243	11.267
60902	SAHWAL-O T-2	11.000	6	1.0023	11.025	60903	SAHWAL-O T-3	11.000	6	1.0242	11.266
60951	SWL III T-1	11.000	6	1.0228	11.250	60952	SWL III T-2	11.000	6	0.9925	10.917
60953	T-3	11.000	6	1.0137	11.151	61001	NOORPUR T-1	11.000	6	1.0165	11.181
61002	NOORPUR T-2	11.000	6	1.0044	11.048	61004	T-3	11.000	6	0.9931	10.924
61011	T-1	11.000	6	1.0028	11.031	61012	T-2	11.000	6	1.0018	11.020
61201	PAKPATAN T-1	11.000	6	0.9760	10.736	61202	PAKPATAN T-2	11.000	6	0.9760	10.736
61203	PAKPATAN T-3	11.000	6	0.9700	10.670	61301	HARAPPA T-1	11.000	6	0.9714	10.686
61302	HARAPPA T-2	11.000	6	1.0169	11.186	61401	CHCHWTNI T-1		6	1.0188	
61402	CHCHWTNI T-2	11.000	6	1.0261	11.288	61403	CHCHWTNI T-3	11.000	6	1.0139	11.153
61491	T-1	11.000	6	0.9953	10.949	61501	SH.FAZAL T-1	11.000	6	1.0322	11.354
61502	SH.FAZAL T-2	11.000	6	1.0322	11.354	61503	T-3	11.000	6	1.0474	11.521
61601	BUREWALA T-1	11.000	6	1.0489	11.538	61602	BUREWALA T-2	11.000	6	1.0187	11.206
61603	BUREWALA T-3	11.000	6	0.9853	10.838	61621	BREWLA-O T-1	11.000	6	1.0116	11.128
61622	BREWLA-O T-2	11.000	6	1.0311	11.342	61623	T-3	11.000	6	1.0152	11.167
61631	GAGOO T-1	11.000	6	0.9676	10.644	61632	GAGOO T-2	11.000	6	0.9741	10.715

61701	VEHARI-O T-111.000	6	0.9988	10.987	61702	VEHARI-O T-211.000	6	1.0311	11.342
61703	VEHARI-T-3 11.000	6	1.0067	11.073	61751	LUDDEN T-1 11.000	6	0.9743	10.717
61752	LUDDEN T-2 11.000	6	0.9743	10.717	61781	KARAMPUR T-111.000	6	1.0273	11.301
61782	KARAMPUR T-211.000	6	1.0266	11.292	61791	T1 11.000	6	0.9870	10.857
61792	T2 11.000	6	0.9870	10.857	61801	ARIFWALA T-311.000	6	1.0438	11.482
61802	ARIFWALA T-211.000	6	1.0438	11.482	61803	ARIFWALA T-111.000	6	1.0006	11.007
61811	T-1 11.000	6	0.9763	10.739	61812	T-2 11.000	6	0.9763	10.739
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	T-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	T-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
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	T-1 11.000	6	1.0035	11.039	64882	T-2 11.000	6	0.9754	10.729
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	
65012	HARONABD T-211.000	6	1.0225	11.247	65013	HARONABD T-111.000	6	1.0225	11.247
65014	HARONABD T-311.000	6	1.0223	11.245	65121	FAQIRWLI-T1 11.000	6	1.0390	11.429
65122	FAQIRWLI-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	MIANCHNU T1 11.000	6	1.0424	11.467
70002	MIANCHNU T-211.000	6	1.0202	11.222	70003	MIANCHNU T-311.000	6	1.0116	11.127
70011	CHAK-83-T1 11.000	6	1.0078	11.085	70012	CHAK-83-T2 11.000	6	1.0078	11.085
70061	H SIDNAI T-111.000	6	1.0075	11.083	70062	H SIDNAI 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
70301	KABIRWLA T-111.000	6	1.0181	11.199	70302	KABIRWLA T-211.000	6	1.0404	11.444
70303	KABIRWLA T-311.000	6	0.9876	10.864	70321	MP PAHOR T-111.000	6	0.9964	10.960
70322	MP PAHOR T-211.000	6	0.9614	10.575	70401	GARHMORE T-111.000	6	1.0112	11.123
70402	GARHMORE T-211.000	6	0.9670	10.637	70421	B-BANGLA T-111.000	6	1.0060	11.066
70501	JEHANIAN T-111.000	6	1.0096	11.106	70502	JEHANIAN T-211.000	6	1.0379	11.417
70503	JEHANIAN T-311.000	6	1.0058	11.064	70601	CHAK.211 T-111.000	6	1.0288	11.316

70602	CHAK 211 T-211.000	6	1.0266	11.293	70603	CHAK 211 T-311.000	6	1.0380	11.418
70701	MAILSI T-1 11.000	6	1.0384	11.423	70702	MAILSI T-2 11.000	6	1.0384	11.423
70703	MAILSI T-3 11.000	6	1.0346	11.380	70751	MUKHDM.R T-111.000	6	0.9979	10.977
70752	MUKHDM.R T-211.000	6	0.9814	10.796	71101	BASTIMLK T-111.000	6	1.0129	11.142
71102	BASTIMLK T-211.000	6	1.0109	11.120	71103	BASTIMLK T-311.000	6	1.0109	11.120
71151	MIRAN P T-1 11.000	6	1.0134	11.148	71152	MIRAN P T-2 11.000	6	1.0134	11.148
71201	LODHRAN T-1 11.000	6	1.0272	11.300	71202	LODHRAN T-2 11.000	6	1.0272	11.300
71203	LODHRAN T-3 11.000	6	1.0362	11.398	71251	LART-1 11.000	6	0.9975	10.972
71252	LAR T-2 11.000	6	0.9975	10.972	71301	BU.JADID T-111.000	6	1.0186	11.204
71302	BU.JADID T-211.000	6	0.9817	10.799	71401	BHAWALPR T-111.000	6	1.0314	11.345
71402	BHAWALPR T-211.000	6	1.0296	11.326	71403	BHAWALPR T-311.000	6	1.0182	11.200
71405	BWP 66.000	6	1.0210	67.385	71411	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
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
71801	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	MWQRSHIA T-111.000	6	1.0340	11.374
72102	MWQRSHIA 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	T-1 11.000	6	0.9952	10.948
72292	T-2 11.000	6	0.9952	10.948	72301	SADIQABD T-111.000	6	1.0245	11.270
72302	SADIQABD T-211.000	6	1.0245	11.270	72303	SADIQABD T-311.000	6	1.0389	11.428
72304	LALPIR 11.000	6	1.0269	11.296	72311	WALANA T-1 11.000	6	1.0084	11.092
72312	WALANA T-2 11.000	6	1.0132	11.145	72351	NAWAZ T-1 11.000	6	0.9778	10.756
72352	NAWAZAB T-2 11.000	6	1.0116	11.127	72401	J.D.WALI T-111.000	6	0.9828	10.810
72402	JDWALI T-2 11.000	6	0.9577	10.534	72403	J D WALI T-311.000	6	1.0274	11.301
72501	MN.KH.RD T-111.000	6	1.0149	11.164	72502	MN.KH.RD T-211.000	6	1.0106	11.116
72503	MN.KH.RD T-311.000	6	1.0149	11.164	72551	WAP TO T-1 11.000	6	1.0354	11.389
72552	WAPDA TO T-211.000	6	1.0092	11.101	72554	T-3 11.000	6	1.0013	11.014
72601	MN.BS.RD T-111.000	6	1.0348	11.383	72602	MN.BS.RD T-211.000	6	1.0257	11.282
72603	MN.BS.RD T-311.000	6	1.0348	11.383	72604	T-4 11.000	6	0.9994	10.993
72611	PNJB HSG T-111.000	6	1.0152	11.167	72612	PNJB HSG T-211.000	6	1.0152	11.167
72621	BUCH VLS T-111.000	6	1.0290	11.319	72651	Q BAGH T-1 11.000	6	0.9857	10.843

72652	Q 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	6	0.9910	10.901	72701	MLN-IND T-1	11.000	6 1.0324 11.357
72702	MLN-IND T-2	11.000	6	0.9687	10.656	72703	MLN-IND T-3	11.000	6 1.0206 11.227
72731	SURJ MNI T-1	11.000	6	1.0370	11.407	72732	SURJ MNI T-2	11.000	6 1.0235 11.258
72801	MN.VR.RD T-1	11.000	6	1.0293	11.322	72802	MN.VR.RD T-2	11.000	6 1.0583 11.641
72803	MN.VR.RD T-3	11.000	6	1.0357	11.393	72804	T-4	11.000	6 1.0044 11.048
72851	QASIMPUR T-1	11.000	6	1.0391	11.430	72852	QASIMPUR T-2	11.000	6 1.0305 11.335
72853	QASIMPUR T-3	11.000	6	1.0498	11.548	72854	T-4	11.000	6 0.9986 10.985
72871	M.J RD T-1	11.000	6	0.9711	10.682	72872	M.J.RD T-2	11.000	6 0.9711 10.682
72881	SHUJABAD T-1	11.000	6	1.0332	11.366	72882	SHUJABAD T-2	11.000	6 1.0334 11.367
72883	SHUJABAD T-3	11.000	6	1.0052	11.057	72891	J.P.W T-1	11.000	6 1.0315 11.347
72892	J.P.W T-2	11.000	6	1.0309	11.340	72893	J.P.W T-3	11.000	6 1.0376 11.413
72901	MESCO T-1	11.000	6	1.0102	11.112	72902	MESCO T-2	11.000	6 1.0587 11.646
72903	MESCO T-3	11.000	6	1.0296	11.325	73201	GUJRAT.S T1	11.000	6 1.0265 11.292
73202	GUJRAT.S T3	11.000	6	1.0318	11.350	73203	GUJRAT.S T2	11.000	6 1.0256 11.282
73251	LAYYAH T-1	11.000	6	1.0270	11.297	73252	LAYYAH T-2	11.000	6 1.0270 11.297
73253	LAYYAH T-3	11.000	6	1.0269	11.296	73281	KBGASHER T-1	11.000	6 1.0171 11.188
73282	KBGASHER T-2	11.000	6	1.0183	11.201	73301	MZFRGARH T-1	11.000	6 0.9845 10.829
73302	MZFRGARH T-2	11.000	6	0.9835	10.818	73303	MZFRGARH T-3	11.000	6 0.9845 10.829
73312	KOTADU-O T-2	11.000	6	1.0445	11.490	73313	KOTADU-O T-3	11.000	6 1.0402 11.442
73314	KOTADU-O T-4	11.000	6	1.0256	11.282	73321	N.A.WALI T-2	11.000	6 1.0204 11.225
73322	N.A.WALI T-1	11.000	6	1.0252	11.277	73331	S S DIN T1	11.000	6 1.0173 11.190
73332	S S DIN T2	11.000	6	0.9978	10.975	73351	KOTSULTAN-T1	11.000	6 1.0228 11.251
73352	KOTSULTAN-T2	11.000	6	1.0368	11.405	73361	KAROR L.E-T1	11.000	6 0.9944 10.938
73362	KAROR L.E-T2		6	0.9944		73401	MEHRKHAS T-1	11.000	6 1.0473 11.521
73402	MEHRKHAS T-2	11.000	6	1.0473	11.521	73403	MEHRKHAS T-3		6 1.0020
73501	DMR WALA T-1	11.000	6	1.0152	11.167	73502	DMR WALA T-2	11.000	6 0.9992 10.991
73601	JATOIJNB T-1	11.000	6	1.0623	11.685	73602	JATOIJNB T-2	11.000	6 1.0559 11.615
73603	T-3	11.000	6	1.0509	11.560	73701	KHRPRSDT T-1	11.000	6 1.0168 11.185
73702	KHPRSDT T-2	11.000	6	1.0188	11.206	73951	SHA.LND T-1	11.000	6 1.0116 11.127
73952	SHA LND T-2	11.000	6	0.9864	10.850	74001	TAUNSA T-1	11.000	6 0.9879 10.867
74002	TAUNSA T-2	11.000	6	0.9879	10.867	74003	T-3	11.000	6 1.0134 11.148
74121	T-1	11.000	6	1.0124	11.136	74131	T-1	11.000	6 1.0130 11.143
74401	CHOKMNDA T-1	11.000	6	1.0261	11.287	74402	CHOKMNDA T-2	11.000	6 1.0206 11.226
74502	CHAUBARA T-2	11.000	6	1.0241	11.265	74562	CHOKAZAM T1	11.000	6 1.0345 11.379
74563	T-3	11.000	6	1.0101	11.111	74591	KHANGARH T-1	11.000	6 0.9822 10.804
74592	KHANGARH T-2	11.000	6	0.9855	10.841	74602	D.G.KHAN T-2	11.000	6 1.0213 11.234
74603	D.G.KHAN T-3	11.000	6	1.0240	11.264	74604	D.G.KHAN T-4	11.000	6 1.0114 11.125
74641	T-1	11.000	6	0.9863	10.849	74651	KOTCHUTA T-1	11.000	6 0.9951 10.946
74652	KOTCHUTA T-2	11.000	6	0.9951	10.946	74653	KOTCHUTTA T3	11.000	6 0.9996 10.996
74691	CHOTI T-1	11.000	6	1.0013	11.014	74701	ROJHAN T-1	11.000	6 1.0028 11.031
74731	T-1	11.000	6	0.9991	10.990	75901	SKHISRWR T-1	11.000	6 0.9980 10.978
75902	SKISRWR T-2	11.000	6	0.9845	10.829	77811	YAZMAN-T-1	11.000	6 1.0000 11.001

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-1	11.000	6	0.9957	10.952
78312	FATEPUR T-2	11.000	6	1.0086	11.094	78313	T-3	11.000	6	1.0379	11.417
78401	T1	11.000	6	1.0012	11.013	78901	NAWANKOT T-1	11.000	6	1.0165	11.181
79091	D.G.K.II T-1	11.000	6	1.0372	11.409	79092	D.G.K.II T-2	11.000	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-1	11.000	6	1.0002	11.002	79332	FAZALPUR T-2	11.000	6	0.9916	10.908
79511	RAJANPUR T-1	11.000	6	1.0061	11.067	79512	RAJANPUR T-2	11.000	6	1.0061	11.067
79513	RAJANPUR T-3		6	0.9787		79741	UCH.SHRF T-2	11.000	6	1.0023	11.025
79742	UCH.SHRF T-3	11.000	6	0.9803	10.783	79743	UCH.SHRF T-1	11.000	6	1.0084	11.093
79751	UCH (KF) T-1	11.000	6	0.9941	10.935	79752	T-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	T-2	11.000	6	1.0039	11.043	79904	T-4	11.000	6	0.9889	10.878
79961	FRT MNRO T-1	11.000	6	1.0141	11.155	732512	LSM-132KV	132.00	6	1.0277	135.66

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	--X 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	T-3	11.000	6	0.9986	10.984
529	PARCO	220.00	6	1.0386	228.50	5282	FATMA ENERGY	132.00	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	PAKPATTAN-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	GAGOO	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	132.00	6	0.9877	130.38	6239	CHISTIAN 132	132.00	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-SOLAR	132.00	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	FORTABAS	132.00	6	0.9734	128.48	6666	MULTAN-N	132.00	6	1.0179	134.37

7000	MIANCHNU	132.00	6	0.9725	128.38	7001	CHAK-83-132	132.00	6	0.9889	130.53
7002	KASSOWAL	132.00	6	1.0099	133.31	7006	HEAD SIDHNAI	132.00	6	0.9641	127.27
7010	KACHAKHU	132.00	6	0.9645	127.31	7020	KHANEWAL	132.00	6	0.9760	128.83
7029	FAUJI-K	132.00	6	1.0000	132.00	7030	KABIRWLA	132.00	6	0.9701	128.05
7032	MP.PAHOR	132.00	6	0.9613	126.89	7040	GARHMORE	132.00	6	0.9755	128.77
7042	B-BANGLA	132.00	6	0.9604	126.77	7050	JEHANIAN	132.00	6	0.9698	128.02
7060	CHAK.211	132.00	6	0.9550	126.06	7070	MAILSI	132.00	6	0.9593	126.62
7075	MUKHDM.R	132.00	6	0.9700	128.04	7100	P.GAIB-1	132.00	6	1.0118	133.56
7109	P.GAIB-2	132.00	6	0.9955	131.40	7110	BASTIMLK	132.00	6	0.9762	128.86
7115	MIRAN PUR	132.00	6	0.9770	128.96	7120	LODHRAN	132.00	6	1.0064	132.85
7125	LAR	132.00	6	0.9762	128.86	7130	BU.JADID	132.00	6	1.0015	132.19
7138	BWPN-2	132.00	6	0.9980	131.73	7139	B.W.P-N	132.00	6	1.0343	136.53
7140	BHAWALPR	132.00	6	1.0176	134.32	7141	LODHRAN-2	132.00	6	1.0147	133.95
7145	BPUR CANTT	132.00	6	1.0282	135.72	7146	CREST-ENERGY	132.00	6	1.0210	134.78
7147	KARORPCA	132.00	6	0.9642	127.28	7148	QAD-SOL-I	132.00	6	1.0200	134.64
7149	DUNYAPUR	132.00	6	0.9514	125.58	7150	SAMASATA	132.00	6	0.9878	130.39
7159	MUB-PUR	132.00	6	0.9745	128.64	7160	LIAQATPR	132.00	6	0.9754	128.75
7170	AHMDPR.E	132.00	6	0.9680	127.78	7175	RYK-PP	132.00	6	1.0100	133.32
7180	FEROZA	132.00	6	1.0093	133.23	7185	KHANBELA	132.00	6	0.9905	130.74
7190	HAMZA-PP	132.00	6	1.0000	132.00	7200	KHANPUR	132.00	6	0.9981	131.75
7210	MWQRSHIA	132.00	6	0.9758	128.80	7220	R.Y.KHAN	132.00	6	0.9983	131.78
7221	RYK-NEW	132.00	6	1.0238	135.14	7225	R.Y.KHN2	132.00	6	0.9890	130.54
7229	RYK-3	132.00	6	1.0005	132.07	7230	SADIQABD	132.00	6	1.0161	134.12
7231	SANJARPUR	132.00	6	1.0205	134.71	7232	JDW II USM P	132.00	6	1.0300	135.96
7235	NAWAZABD	132.00	6	1.0198	134.61	7237	RIE	132.00	6	1.0129	133.70
7240	J.D.WALI	132.00	6	1.0034	132.44	7250	MN.KH.RD	132.00	6	1.0145	133.92
7255	WAPDATWN	132.00	6	1.0030	132.40	7260	MN.BS.RD	132.00	6	0.9970	131.60
7261	PUNJAB HOSNG	132.00	6	1.0107	133.41	7262	BUCH VILLAS	132.00	6	0.9952	131.37
7265	QASIMBGH	132.00	6	0.9997	131.96	7269	RAWAN ROAD	132.00	6	1.0040	132.52
7270	MLN-IND	132.00	6	0.9988	131.85	7272	COCA COLA	132.00	6	0.9988	131.85
7273	SURAJ MIANI	132.00	6	0.9968	131.57	7275	C.T.MILL	132.00	6	0.9980	131.74
7277	APL	132.00	6	0.9848	129.99	7280	MN.VR.RD	132.00	6	1.0002	132.03
7285	QASIMPUR	132.00	6	0.9982	131.76	7287	M.JAILRD	132.00	6	0.9932	131.10
7288	SHUJABAD	132.00	6	0.9555	126.12	7289	JALALPWL	132.00	6	0.9723	128.34
7290	MESCO	132.00	6	0.9884	130.47	7300	KAPCO	132.00	6	1.0490	138.47
7320	GUJRAT.S	132.00	6	1.0270	135.57	7325	LAYYAH	132.00	6	1.0252	135.32
7328	KBGASHER	132.00	6	1.0262	135.46	7330	MZFRGARH	132.00	6	1.0103	133.36
7331	KOTADU-O	132.00	6	1.0474	138.25	7332	N.A.WALI	132.00	6	1.0314	136.14
7333	S.S.DIN	132.00	6	1.0053	132.70	7334	M GARH NEW	132.00	6	1.0118	133.56
7335	KOTSULTAN	132.00	6	1.0341	136.51	7336	KAROR L.E	132.00	6	1.0119	133.57
7337	EPGL	132.00	6	1.0200	134.64	7339	DUMMY IND	132.00	6	1.0105	133.39
7340	MEHRKHAS	132.00	6	0.9834	129.81	7350	DMR WALA	132.00	6	0.9781	129.10
7360	JATOIJNB	132.00	6	0.9742	128.60	7370	KHRPRSDT	132.00	6	0.9831	129.78

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
7440	CHOKMNDA	132.00	6	1.0359	136.74	7442	T-AHTM	132.00	6	1.0405	137.34
7443	AHTM	132.00	6	1.0404	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	D.G.KHAN	132.00	6	1.0118	133.56	7462	MDC-DGK	132.00	6	1.0153	134.01
7463	CPC-DGK	132.00	6	1.0120	133.59	7464	JAMPR 66-132	132.00	6	1.0088	133.16
7465	KOTCHUTA	132.00	6	1.0089	133.18	7466	T-ATM	132.00	6	1.0110	133.45
7467	ATM	132.00	6	1.0109	133.44	7469	CHOTI 132	132.00	6	1.0123	133.62
7470	ROJHAN	132.00	6	1.0317	136.18	7473	DAJAL132	132.00	6	1.0073	132.96
7477	ZENFA	132.00	6	1.0331	136.37	7580	CMNT.FCT	132.00	6	1.0146	133.92
7590	SKHISRWR	132.00	6	1.0132	133.74	7650	L.SUHANRA132	132.00	6	1.0233	135.08
7781	YAZMAN	132.00	6	1.0124	133.64	7791	MAROOT	132.00	6	1.0033	132.43
7800	KOTADDU	66.000	6	1.0427	68.818	7831	FATEHPUR	132.00	6	1.0102	133.34
7840	RANGPUR	66.000	6	1.0245	67.618	7842	T-RANGPR	66.000	6	1.0403	68.657
7880	CHAUBARA	66.000	6	1.0303	68.003	7890	NAWANKOT	66.000	6	1.0263	67.734
7891	T.NWANKOT	66.000	6	1.0265	67.748	7909	D.G.KHAN II	132.00	6	1.0094	133.24
7930	JAMPUR	132.00	6	1.0034	132.45	7933	FAZALPUR	132.00	6	1.0041	132.54
7951	RAJANPUR	132.00	6	1.0078	133.03	7959	INDUS ENERGY	132.00	6	1.0200	134.64
7970	AHMDPR.E	66.000	6	0.9852	65.020	7974	UCH.SHRF	132.00	6	0.9568	126.30
7975	KOT KHALIFA	66.000	6	0.9193	60.672	7977	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	0.9739	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	11.000	6	1.0056	11.061	60302	QADIRABD T-2	11.000	6	1.0056	11.061
60501	BNGAHYAT T-1	11.000	6	0.9856	10.842	60502	BNGAHYAT T-2	11.000	6	0.9829	10.812
60801	SAHIWALN T-1	11.000	6	0.9707	10.678	60802	SAHIWALN T-2	11.000	6	0.9707	10.678
60803	T-3	11.000	6	1.0164	11.180	60901	SAHWAL-O T-1	11.000	6	1.0172	11.190
60902	SAHWAL-O T-2	11.000	6	0.9958	10.954	60903	SAHWAL-O T-3	11.000	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	T-1	11.000	6	0.9878	10.866	61012	T-2	11.000	6	0.9864	10.850
61201	PAKPATAN T-1	11.000	6	0.9725	10.698	61202	PAKPATAN T-2	11.000	6	0.9725	10.698
61203	PAKPATAN T-3	11.000	6	0.9665	10.631	61301	HARAPPA T-1	11.000	6	0.9631	10.594
61302	HARAPPA T-2	11.000	6	1.0077	11.085	61401	CHCHWTNI T-1		6	1.0090	
61402	CHCHWTNI T-2	11.000	6	1.0162	11.178	61403	CHCHWTNI T-3	11.000	6	1.0039	11.043
61491	T-1	11.000	6	0.9866	10.852	61501	SH.FAZAL T-1	11.000	6	1.0180	11.199
61502	SH.FAZAL T-2	11.000	6	1.0180	11.199	61503	T-3	11.000	6	1.0340	11.374
61601	BUREWALA T-1	11.000	6	1.0379	11.417	61602	BUREWALA T-2	11.000	6	1.0089	11.098
61603	BUREWALA T-3	11.000	6	0.9744	10.718	61621	BREWLA-O T-1	11.000	6	0.9947	10.942
61622	BREWLA-O T-2	11.000	6	1.0134	11.147	61623	T-3	11.000	6	0.9989	10.988
61631	GAGOO T-1	11.000	6	0.9532	10.485	61632	GAGOO T-2	11.000	6	0.9598	10.558

61701	VEHARI-O T-1	11.000	6	0.9791	10.770	61702	VEHARI-O T-2	11.000	6 1.0111 11.122
61703	VEHARI-T-3	11.000	6	0.9869	10.856	61751	LUDDEN T-1	11.000	6 0.9534 10.488
61752	LUDDEN T-2	11.000	6	0.9534	10.488	61781	KARAMPUR T-1	11.000	6 1.0075 11.082
61782	KARAMPUR T-2	11.000	6	1.0040	11.044	61791	T1	11.000	6 0.9736 10.710
61792	T2	11.000	6	0.9736	10.710	61801	ARIFWALA T-3	11.000	6 1.0277 11.305
61802	ARIFWALA T-2	11.000	6	1.0277	11.305	61803	ARIFWALA T-1	11.000	6 0.9855 10.841
61811	T-1	11.000	6	0.9624	10.587	61812	T-2	11.000	6 0.9624 10.587
61821	KAMIRW T-1	11.000	6	0.9749	10.724	61822	KAMIR W T-2	11.000	6 0.9749 10.724
61901	BWL.NAGR T-1	11.000	6	0.9733	10.707	61902	T-3	11.000	6 0.9580 10.538
61903	BWL.NAGR T-3	11.000	6	0.9733	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	QABULA T-1	11.000	6 0.9987 10.986
62002	QABULA T-2	11.000	6	1.0103	11.113	62003	QABULA T-3	11.000	6 0.9921 10.913
62101	SAHUKA T-1	11.000	6	1.0007	11.008	62102	SAHUKA T-2	11.000	6 1.0217 11.239
62202	HASILPUR T-2	11.000	6	0.9744	10.718	62203	HASILPUR T-3	11.000	6 0.9783 10.761
62211	CHUNAW T-1	11.000	6	0.9943	10.937	62301	CHISTIAN T-1	11.000	6 0.9770 10.747
62302	CHISTIAN T-2	11.000	6	1.0053	11.058	62303	CHISTIAO T3	11.000	6 0.9976 10.973
62321	DHRANWALA-T1	11.000	6	0.9955	10.950	62322	DHRANWALA-T2	11.000	6 0.9955 10.950
62381	T-1	11.000	6	0.9779	10.757	62391	T-1	11.000	6 0.9847 10.832
62392	T-2	11.000	6	0.9847	10.832	62501	MAN-KOT T-1	11.000	6 0.9956 10.952
62502	MAN-KOT T-2	11.000	6	0.9956	10.952	64191	L.SOHAN T-1	11.000	6 0.9694 10.664
64211	K.P.TOMI T-1	11.000	6	0.9775	10.752	64212	K.P.TOMI T-2	11.000	6 0.9737 10.711
64621	NOORSAR T-1	11.000	6	0.9880	10.868	64622	NOORSAR T-2	11.000	6 1.0241 11.266
64821	MNCHNBAD T1	11.000	6	0.9966	10.963	64822	T-2	11.000	6 0.9976 10.973
64881	T-1	11.000	6	0.9843	10.828	64882	T-2	11.000	6 0.9574 10.531
64891	T-1	11.000	6	1.0131	11.144	64892	T-2	11.000	6 0.9611 10.572
64911	MCLD.GNJ T1	11.000	6	1.0060	11.066	64912	MCLD GNG T-2		6 0.9998
65012	HARONABD T-2	11.000	6	0.9979	10.977	65013	HARONABD T-1	11.000	6 0.9979 10.977
65014	HARONABD T-3	11.000	6	0.9975	10.972	65121	FAQIRWLI-T1	11.000	6 1.0160 11.176
65122	FAQIRWLI-T2	11.000	6	1.0160	11.176	65191	T-1	11.000	6 1.0143 11.157
65192	T-2	11.000	6	1.0143	11.157	65211	FORTABAS-T1		6 1.0113
65212	FORTABAST-2	11.000	6	1.0067	11.073	70001	MIANCHNU T1	11.000	6 1.0319 11.351
70002	MIANCHNU T-2	11.000	6	1.0088	11.097	70003	MIANCHNU T-3	11.000	6 1.0012 11.013
70011	CHAK-83-T1	11.000	6	0.9979	10.977	70012	CHAK-83-T2	11.000	6 0.9979 10.977
70061	H SIDNAI T-1	11.000	6	0.9957	10.952	70062	H SIDNAI T-2	11.000	6 1.0181 11.199
70101	KACHAKHU T-1	11.000	6	0.9853	10.839	70102	KACHAKHU T-2	11.000	6 0.9853 10.839
70103	KACHAKHU T-3	11.000	6	0.9929	10.922	70201	KHANEWAL T-1	11.000	6 0.9937 10.931
70202	KHANEWAL T-2	11.000	6	0.9859	10.845	70203	KHANEWAL T-3	11.000	6 0.9880 10.868
70301	KABIRWLA T-1	11.000	6	1.0093	11.102	70302	KABIRWLA T-2	11.000	6 1.0317 11.349
70303	KABIRWLA T-3	11.000	6	0.9793	10.772	70321	MP PAHOR T-1	11.000	6 0.9849 10.834
70322	MP PAHOR T-2	11.000	6	0.9543	10.497	70401	GARHMORE T-1	11.000	6 0.9934 10.927
70402	GARHMORE T-2	11.000	6	1.0055	11.061	70421	B-BANGLA T-1	11.000	6 0.9979 10.977
70501	JEHANIAN T-1	11.000	6	0.9944	10.939	70502	JEHANIAN T-2	11.000	6 1.0225 11.248
70503	JEHANIAN T-3	11.000	6	0.9908	10.899	70601	CHAK.211 T-1	11.000	6 1.0084 11.093

70602	CHAK 211 T-211.000	6	1.0061	11.067	70603	CHAK 211 T-311.000	6	1.0198	11.217
70701	MAILSI T-1 11.000	6	1.0189	11.208	70702	MAILSI T-2 11.000	6	1.0189	11.208
70703	MAILSI T-3 11.000	6	1.0140	11.154	70751	MUKHDM.R T-111.000	6	0.9830	10.813
70752	MUKHDM.R T-211.000	6	0.9686	10.655	71101	BASTIMLK T-111.000	6	1.0040	11.044
71102	BASTIMLK T-211.000	6	1.0021	11.023	71103	BASTIMLK T-311.000	6	1.0021	11.023
71151	MIRAN P T-1 11.000	6	1.0033	11.036	71152	MIRAN P T-2 11.000	6	1.0033	11.036
71201	LODHRAN T-1 11.000	6	1.0374	11.412	71202	LODHRAN T-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	T-1 11.000	6	1.0024	11.027
71412	T-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	T-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
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	LIAQATPR T-111.000	6	0.9651	10.616
71602	LIAQATPR 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
72003	KHANPUR T-3 11.000	6	0.9656	10.621	72101	MWQRSHIA T-111.000	6	1.0134	11.147
72102	MWQRSHIA T2 11.000	6	0.9983	10.981	72103	T-3 11.000	6	1.0129	11.141
72201	R.Y.KHAN T-111.000	6	1.0135	11.148	72202	R.Y.KHAN T-211.000	6	0.9767	10.743
72203	R.Y.KHAN T-311.000	6	1.0187	11.206	72204	T-4 11.000	6	0.9994	10.994
72251	R.Y.KHN2 T-111.000	6	0.9680	10.648	72252	R.Y.KHN2 T-211.000	6	0.9628	10.591
72253	T-3 11.000	6	1.0055	11.061	72291	T-1 11.000	6	0.9863	10.849
72292	T-2 11.000	6	0.9863	10.849	72301	SADIQABD T-111.000	6	1.0202	11.223
72302	SADIQABD T-211.000	6	1.0202	11.223	72303	SADIQABD T-311.000	6	1.0347	11.381
72304	LALPIR 11.000	6	1.0224	11.247	72311	WALANA T-1 11.000	6	1.0048	11.053
72312	WALANA T-2 11.000	6	1.0099	11.109	72351	NAWAZ T-1 11.000	6	0.9729	10.702
72352	NAWAZAB T-2 11.000	6	1.0091	11.101	72401	J.D.WALI T-111.000	6	0.9787	10.766
72402	JDWALI T-2 11.000	6	0.9533	10.486	72403	J D WALI T-311.000	6	1.0239	11.263
72501	MN.KH.RD T-111.000	6	1.0072	11.079	72502	MN.KH.RD T-211.000	6	1.0027	11.030
72503	MN.KH.RD T-311.000	6	1.0072	11.079	72551	WAP TO T-1 11.000	6	1.0267	11.294
72552	WAPDA TO T-211.000	6	1.0004	11.005	72554	T-3 11.000	6	0.9931	10.924
72601	MN.BS.RD T-111.000	6	1.0250	11.275	72602	MN.BS.RD T-211.000	6	0.9907	10.898
72603	MN.BS.RD T-311.000	6	1.0250	11.275	72604	T-4 11.000	6	0.9902	10.893
72611	PNJB HSG T-111.000	6	1.0075	11.082	72612	PNJB HSG T-211.000	6	1.0075	11.082
72621	BUCH VLS T-111.000	6	1.0186	11.205	72651	Q BAGH T-1 11.000	6	0.9784	10.763

72652	Q BAGH T-2	11.000	6	0.9848	10.833	72691	T-1	11.000	6 0.9837 10.821
72692	T-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-1	11.000	6	1.0271	11.298	72732	SURJ MNI T-2	11.000	6 1.0139 11.153
72801	MN.VR.RD T-1	11.000	6	1.0220	11.242	72802	MN.VR.RD T-2	11.000	6 1.0509 11.559
72803	MN.VR.RD T-3	11.000	6	1.0286	11.315	72804	T-4	11.000	6 0.9975 10.973
72851	QASIMPUR T-1	11.000	6	1.0315	11.347	72852	QASIMPUR T-2	11.000	6 1.0230 11.253
72853	QASIMPUR T-3	11.000	6	1.0422	11.464	72854	T-4	11.000	6 0.9915 10.907
72871	M.J RD T-1	11.000	6	0.9594	10.554	72872	M.J.RD T-2	11.000	6 0.9594 10.554
72881	SHUJABAD T-1	11.000	6	1.0206	11.226	72882	SHUJABAD T-2	11.000	6 1.0209 11.230
72883	SHUJABAD T-3	11.000	6	0.9945	10.939	72891	J.P.W T-1	11.000	6 1.0335 11.368
72892	J.P.W T-2	11.000	6	1.0327	11.360	72893	J.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	GUJRAT.S T1	11.000	6 1.0220 11.242
73202	GUJRAT.S T3	11.000	6	1.0276	11.303	73203	GUJRAT.S T2	11.000	6 1.0212 11.233
73251	LAYYAH T-1	11.000	6	1.0218	11.239	73252	LAYYAH T-2	11.000	6 1.0218 11.239
73253	LAYYAH T-3	11.000	6	1.0228	11.251	73281	KBGASHER T-1	11.000	6 1.0123 11.136
73282	KBGASHER T-2	11.000	6	1.0136	11.150	73301	MZFRGARH T-1	11.000	6 0.9722 10.694
73302	MZFRGARH T-2	11.000	6	0.9711	10.682	73303	MZFRGARH T-3	11.000	6 0.9722 10.694
73312	KOTADU-O T-2	11.000	6	1.0420	11.462	73313	KOTADU-O T-3	11.000	6 1.0368 11.405
73314	KOTADU-O T-4	11.000	6	1.0234	11.258	73321	N.A.WALI T-2	11.000	6 1.0181 11.199
73322	N.A.WALI T-1	11.000	6	1.0231	11.254	73331	S S DIN T1	11.000	6 1.0113 11.124
73332	S S DIN T2	11.000	6	0.9923	10.915	73351	KOTSULTAN-T1	11.000	6 1.0205 11.225
73352	KOTSULTAN-T2	11.000	6	1.0342	11.377	73361	KAROR L.E-T1	11.000	6 0.9875 10.863
73362	KAROR L.E-T2		6	0.9876		73401	MEHRKHAS T-1	11.000	6 1.0209 11.230
73402	MEHRKHAS T-2	11.000	6	1.0209	11.230	73403	MEHRKHAS T-3		6 0.9770
73501	DMR WALA T-1	11.000	6	0.9716	10.688	73502	DMR WALA T-2	11.000	6 0.9403 10.344
73601	JATOIJNB T-1	11.000	6	1.0137	11.151	73602	JATOIJNB T-2	11.000	6 1.0030 11.032
73603	T-3	11.000	6	1.0037	11.041	73701	KHRPRSDT T-1	11.000	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	T-1	11.000	6 1.0057 11.063
74401	CHOKMNDA T-1	11.000	6	1.0238	11.261	74402	CHOKMNDA T-2	11.000	6 1.0182 11.201
74502	CHAUBARA T-2	11.000	6	1.0192	11.212	74562	CHOKAZAM T1	11.000	6 1.0286 11.315
74563	T-3	11.000	6	1.0057	11.063	74591	KHANGARH T-1	11.000	6 0.9602 10.562
74592	KHANGARH T-2	11.000	6	0.9649	10.613	74602	D.G.KHAN T-2	11.000	6 1.0135 11.148
74603	D.G.KHAN T-3	11.000	6	1.0163	11.179	74604	D.G.KHAN T-4	11.000	6 1.0034 11.037
74641	T-1	11.000	6	0.9961	10.957	74651	KOTCHUTA T-1	11.000	6 0.9900 10.890
74652	KOTCHUTA T-2	11.000	6	0.9900	10.890	74653	KOTCHUTTA T3	11.000	6 0.9945 10.939
74691	CHOTI T-1	11.000	6	0.9966	10.963	74701	ROJHAN T-1	11.000	6 1.0009 11.010
74731	T-1	11.000	6	0.9977	10.975	75901	SKHISRWR T-1	11.000	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

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-1	11.000	6	0.9883	10.872
78312	FATEPUR T-2	11.000	6	1.0025	11.028	78313	T-3	11.000	6	1.0321	11.353
78401	T1	11.000	6	0.9978	10.976	78901	NAWANKOT T-1	11.000	6	1.0109	11.120
79091	D.G.K.II T-1	11.000	6	1.0286	11.314	79092	D.G.K.II T-2	11.000	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-1	11.000	6	1.0021	11.023	79332	FAZALPUR T-2	11.000	6	0.9925	10.917
79511	RAJANPUR T-1	11.000	6	1.0002	11.002	79512	RAJANPUR T-2	11.000	6	1.0002	11.002
79513	RAJANPUR T-3		6	0.9724		79741	UCH.SHRF T-2	11.000	6	0.9942	10.936
79742	UCH.SHRF T-3	11.000	6	0.9727	10.700	79743	UCH.SHRF T-1	11.000	6	0.9998	10.997
79751	UCH (KF) T-1	11.000	6	0.9699	10.669	79752	T-2		6	0.9544	
79811	ALI PUR T-1	11.000	6	0.9197	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	T-2	11.000	6	0.9664	10.631	79841	H.R. KAN T1	11.000	6	1.0277	11.304
79842	T-2	11.000	6	0.9937	10.931	79904	T-4	11.000	6	0.9812	10.793
79961	FRT MNRO T-1	11.000	6	1.0098	11.108	732512	LSM-132KV	132.00	6	1.0247	135.26

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)	BUS#	X-- NAME	--X BASKV	AREA	V(PU)	V(KV)
401	T-3	11.000	6	0.9947	10.942	502	T-3	11.000	6	1.0004	11.005
529	PARCO	220.00	6	1.0386	228.50	5282	FATMA ENERGY	132.00	6	1.0200	134.64
5283	FAZAL CLOTH	132.00	6	1.0193	134.55	6030	QADIRABD	132.00	6	1.0327	136.32
6050	BNGAHYAT	132.00	6	1.0144	133.90	6070	YOUSFWLA	132.00	6	1.0266	135.52
6080	SAHIWALN	132.00	6	1.0187	134.47	6090	SAHIWAL-O	132.00	6	1.0189	134.49
6095	SAHIWAL III	132.00	6	1.0160	134.11	6100	NOORPUR	132.00	6	1.0131	133.73
6101	PAKPATTAN-2	132.00	6	1.0073	132.96	6120	PAKPATAN	132.00	6	0.9916	130.89
6130	HARAPPA	132.00	6	1.0036	132.48	6140	CHCHWTNI	132.00	6	1.0088	133.16
6149	KASOWAL132	132.00	6	1.0049	132.65	6150	SH.FAZAL	132.00	6	0.9856	130.10
6160	BUREWALA	132.00	6	0.9754	128.75	6162	BREWLA-O	132.00	6	0.9693	127.94
6163	GAGOO	132.00	6	0.9669	127.63	6169	VEHARI-N	132.00	6	1.0084	133.11
6170	VEHARI-O	132.00	6	1.0050	132.66	6175	LUDDEN	132.00	6	0.9852	130.04
6178	KARAMPUR	132.00	6	0.9743	128.61	6179	MACHIWAL	132.00	6	0.9865	130.21
6180	ARIFWALA	132.00	6	0.9743	128.61	6181	ARIFWALA-2	132.00	6	0.9741	128.59
6182	KAMIRWALA	132.00	6	0.9891	130.56	6190	BWL.NAGR	132.00	6	0.9794	129.27
6191	HOTA	132.00	6	0.9691	127.92	6200	QABULA	132.00	6	0.9671	127.65
6210	SAHUKA	132.00	6	0.9742	128.59	6220	HASILPUR	132.00	6	0.9845	129.95
6221	CHUNAWALA	132.00	6	0.9831	129.77	6230	CHISTIAN-O	132.00	6	0.9950	131.34
6231	CHSTAN-N	132.00	6	1.0012	132.16	6232	DHARWALA132	132.00	6	0.9890	130.54
6238	BUKHSHAN 132	132.00	6	0.9985	131.80	6239	CHISTIAN 132	132.00	6	0.9997	131.96
6250	MAN-KOT	132.00	6	1.0032	132.42	6410	HASILPUR	66.000	6	0.9845	64.976
6419	L.SOHANRA	132.00	6	0.9930	131.07	6420	BEST-GREEN	132.00	6	1.0154	134.03
6421	K.P.TOMI	132.00	6	0.9846	129.96	6422	APPOLO-SOLAR	132.00	6	1.0135	133.78
6462	NOORSAR	132.00	6	0.9926	131.02	6482	MNCHNBAD	132.00	6	0.9689	127.89
6488	BWL NAGAR-2	132.00	6	0.9885	130.48	6489	DONGA BNGA	132.00	6	0.9863	130.19
6491	MCLD.GNJ	132.00	6	0.9652	127.40	6501	HARONABD	132.00	6	0.9890	130.55
6512	FAQIRWLI	132.00	6	0.9887	130.50	6519	KHICHIWALA	132.00	6	0.9872	130.31
6521	FORTABAS	132.00	6	0.9917	130.91	6666	MULTAN-N	132.00	6	1.0197	134.60

7000	MIANCHNU	132.00	6	0.9864	130.21	7001	CHAK-83-132	132.00	6	1.0018	132.24
7002	KASSOWAL	132.00	6	1.0195	134.58	7006	HEAD SIDHNAI	132.00	6	0.9671	127.66
7010	KACHAKHU	132.00	6	0.9715	128.24	7020	KHANEWAL	132.00	6	0.9791	129.24
7029	FAUJI-K	132.00	6	1.0000	132.00	7030	KABIRWLA	132.00	6	0.9731	128.45
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-ENERGY	132.00	6	1.0212	134.80	7147	KARORPCA	132.00	6	0.9696	127.99
7148	QAD-SOL-I	132.00	6	1.0200	134.64	7149	DUNYAPUR	132.00	6	0.9569	126.32
7150	SAMASATA	132.00	6	0.9936	131.16	7153	KOT KHALIFA	132.00	6	0.9714	128.22
7159	MUB-PUR	132.00	6	0.9835	129.82	7160	LIAQATPR	132.00	6	0.9757	128.79
7170	AHMDPR.E	132.00	6	0.9782	129.12	7175	RYK-PP	132.00	6	1.0100	133.32
7180	FEROZA	132.00	6	1.0123	133.62	7185	KHANBELA	132.00	6	0.9962	131.50
7190	HAMZA-PP	132.00	6	1.0000	132.00	7200	KHANPUR	132.00	6	1.0060	132.79
7210	MWQRSHIA	132.00	6	1.0183	134.42	7211	VEHARI-2	132.00	6	1.0080	133.06
7220	R.Y.KHAN	132.00	6	0.9984	131.79	7221	RYK-NEW	132.00	6	1.0246	135.25
7225	R.Y.KHN2	132.00	6	0.9893	130.58	7229	RYK-3	132.00	6	1.0007	132.10
7230	SADIQABD	132.00	6	1.0165	134.17	7231	SANJARPUR	132.00	6	1.0208	134.75
7232	JDW II USM P	132.00	6	1.0300	135.96	7235	NAWAZABD	132.00	6	1.0210	134.77
7237	RIE	132.00	6	1.0133	133.76	7240	J.D.WALI	132.00	6	1.0038	132.50
7250	MN.KH.RD	132.00	6	1.0163	134.15	7255	WAPDATWN	132.00	6	1.0049	132.65
7260	MN.BS.RD	132.00	6	0.9989	131.85	7261	PUNJAB HOSNG	132.00	6	1.0125	133.65
7262	BUCH VILLAS	132.00	6	0.9972	131.63	7265	QASIMBGH	132.00	6	1.0016	132.21
7269	RAWAN ROAD	132.00	6	1.0058	132.76	7270	MLN-IND	132.00	6	1.0009	132.12
7272	COCA COLA	132.00	6	1.0009	132.12	7273	SURAJ MIANI	132.00	6	0.9988	131.84
7275	C.T.MILL	132.00	6	1.0001	132.01	7277	APL	132.00	6	0.9953	131.38
7280	MN.VR.RD	132.00	6	1.0021	132.28	7285	QASIMPUR	132.00	6	1.0001	132.01
7287	M.JAILRD	132.00	6	0.9953	131.38	7288	SHUJABAD	132.00	6	0.9578	126.43
7289	JALALPWL	132.00	6	0.9745	128.63	7290	MESCO	132.00	6	0.9904	130.73
7300	KAPCO	132.00	6	1.0490	138.47	7311	MZFRGARH-2	132.00	6	1.0136	133.79
7320	GUJRAT.S	132.00	6	1.0285	135.76	7325	LAYYAH	132.00	6	1.0252	135.32
7328	KBGASHER	132.00	6	1.0272	135.59	7330	MZFRGARH	132.00	6	1.0130	133.72
7331	KOTADU-O	132.00	6	1.0474	138.25	7332	N.A.WALI	132.00	6	1.0314	136.14
7333	S.S.DIN	132.00	6	1.0065	132.86	7334	M GARH NEW	132.00	6	1.0139	133.84
7335	KOTSULTAN	132.00	6	1.0341	136.51	7336	KAROR L.E	132.00	6	1.0119	133.57
7337	EPGL	132.00	6	1.0200	134.64	7339	DUMMY IND	132.00	6	1.0126	133.66

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.GHAIB132KV	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	6	1.0140	133.84
7464	JAMPR 66-132	132.00	6	1.0053	132.70	7465	KOTCHUTA	132.00	6	1.0090	133.19
7466	T-ATM	132.00	6	1.0124	133.63	7467	ATM	132.00	6	1.0124	133.63
7469	CHOTI 132	132.00	6	1.0130	133.72	7470	ROJHAN	132.00	6	1.0324	136.27
7473	DAJAL132	132.00	6	1.0038	132.51	7477	ZENFA	132.00	6	1.0331	136.37
7580	CMNT.FCT	132.00	6	1.0161	134.12	7590	SKHISRWR	132.00	6	1.0144	133.90
7650	L.SUHANRA132	132.00	6	1.0237	135.13	7781	YAZMAN	132.00	6	1.0160	134.11
7791	MAROOT	132.00	6	1.0082	133.08	7800	KOTADDU	66.000	6	1.0427	68.819
7831	FATEHPUR	132.00	6	1.0102	133.34	7840	RANGPUR	66.000	6	1.0245	67.618
7842	T-RANGPR	66.000	6	1.0403	68.657	7880	CHAUBARA	66.000	6	1.0304	68.003
7890	NAWANKOT	66.000	6	1.0263	67.735	7891	T.NWANKOT	66.000	6	1.0265	67.748
7909	D.G.KHAN II	132.00	6	1.0114	133.50	7930	JAMPUR	132.00	6	1.0077	133.02
7933	FAZALPUR	132.00	6	1.0104	133.37	7951	RAJANPUR	132.00	6	1.0141	133.87
7959	INDUS ENERGY	132.00	6	1.0200	134.64	7974	UCH.SHRF	132.00	6	0.9671	127.66
7981	ALI PUR	132.00	6	0.9893	130.58	7982	JATOI-2	132.00	6	0.9826	129.71
7984	HEAD-RJ-KN	132.00	6	1.0139	133.83	7996	FORT.MINRO	132.00	6	1.0145	133.92
60301	QADIRABD T-1	11.000	6	1.0086	11.095	60302	QADIRABD T-2	11.000	6	1.0086	11.095
60501	BNGAHYAT T-1	11.000	6	0.9881	10.869	60502	BNGAHYAT T-2	11.000	6	0.9855	10.840
60801	SAHIWALN T-1	11.000	6	0.9742	10.716	60802	SAHIWALN T-2	11.000	6	0.9742	10.716
60803	T-3	11.000	6	1.0196	11.216	60901	SAHWAL-O T-1	11.000	6	1.0215	11.237
60902	SAHWAL-O T-2	11.000	6	0.9999	10.998	60903	SAHWAL-O T-3	11.000	6	1.0214	11.236
60951	SWL III T-1	11.000	6	1.0196	11.216	60952	SWL III T-2	11.000	6	0.9897	10.887
60953	T-3	11.000	6	1.0115	11.126	61001	NOORPUR T-1	11.000	6	1.0084	11.093
61002	NOORPUR T-2	11.000	6	0.9969	10.965	61004	T-3	11.000	6	0.9866	10.853
61011	T-1	11.000	6	0.9913	10.905	61012	T-2	11.000	6	0.9900	10.890
61201	PAKPATAN T-1	11.000	6	0.9770	10.747	61202	PAKPATAN T-2	11.000	6	0.9770	10.747
61203	PAKPATAN T-3	11.000	6	0.9710	10.681	61301	HARAPPA T-1	11.000	6	0.9697	10.667
61302	HARAPPA T-2	11.000	6	1.0148	11.163	61401	CHCHWTNI T-1		6	1.0185	
61402	CHCHWTNI T-2	11.000	6	1.0258	11.284	61403	CHCHWTNI T-3	11.000	6	1.0135	11.149
61491	T-1	11.000	6	0.9944	10.938	61501	SH.FAZAL T-1	11.000	6	1.0285	11.314
61502	SH.FAZAL T-2	11.000	6	1.0285	11.314	61503	T-3	11.000	6	1.0443	11.487
61601	BUREWALA T-1	11.000	6	1.0491	11.540	61602	BUREWALA T-2	11.000	6	1.0201	11.221
61603	BUREWALA T-3	11.000	6	0.9847	10.832	61621	BREWLA-O T-1	11.000	6	1.0058	11.064

61622	BREWLA-O T-2	11.000	6	1.0248	11.273	61623	T-3	11.000	6 1.0097 11.107
61631	GAGOO T-1	11.000	6	0.9628	10.591	61632	GAGOO T-2	11.000	6 0.9694 10.663
61701	VEHARI-O T-1	11.000	6	1.0052	11.057	61702	VEHARI-O T-2	11.000	6 1.0372 11.409
61703	VEHARI-T-3	11.000	6	1.0129	11.142	61751	LUDDEN T-1	11.000	6 0.9651 10.616
61752	LUDDEN T-2	11.000	6	0.9651	10.616	61781	KARAMPUR T-1	11.000	6 1.0199 11.218
61782	KARAMPUR T-2	11.000	6	1.0311	11.342	61791	T1	11.000	6 0.9835 10.818
61792	T2	11.000	6	0.9835	10.818	61801	ARIFWALA T-3	11.000	6 1.0373 11.411
61802	ARIFWALA T-2	11.000	6	1.0373	11.411	61803	ARIFWALA T-1	11.000	6 0.9946 10.941
61811	T-1	11.000	6	0.9709	10.680	61812	T-2	11.000	6 0.9709 10.680
61821	KAMIRW T-1	11.000	6	0.9818	10.800	61822	KAMIR W T-2	11.000	6 0.9818 10.800
61901	BWL.NAGR T-1	11.000	6	0.9837	10.821	61902	T-3	11.000	6 0.9680 10.648
61903	BWL.NAGR T-3	11.000	6	0.9837	10.821	61911	HOTA T-1	11.000	6 0.9660 10.626
61912	HOTA T-2	11.000	6	1.0169	11.186	62001	QABULA T-1	11.000	6 1.0089 11.098
62002	QABULA T-2	11.000	6	1.0209	11.230	62003	QABULA T-3	11.000	6 1.0022 11.024
62101	SAHUKA T-1	11.000	6	1.0122	11.134	62102	SAHUKA T-2	11.000	6 1.0334 11.368
62202	HASILPUR T-2	11.000	6	0.9981	10.979	62203	HASILPUR T-3	11.000	6 1.0015 11.016
62204	T-4	11.000	6	0.9799	10.778	62211	CHUNAW T-1	11.000	6 1.0039 11.043
62301	CHISTIAN T-1	11.000	6	0.9886	10.875	62302	CHISTIAN T-2	11.000	6 1.0172 11.189
62303	CHISTIAO T3	11.000	6	1.0099	11.109	62321	DHRANWALA-T1	11.000	6 1.0075 11.083
62322	DHRANWALA-T2	11.000	6	1.0075	11.083	62381	T-1	11.000	6 0.9891 10.880
62391	T-1	11.000	6	0.9957	10.953	62392	T-2	11.000	6 0.9957 10.953
62501	MAN-KOT T-1	11.000	6	0.9975	10.973	62502	MAN-KOT T-2	11.000	6 0.9975 10.973
64191	L.SOHAN T-1	11.000	6	0.9749	10.724	64211	K.P.TOMI T-1	11.000	6 0.9853 10.838
64212	K.P.TOMI T-2	11.000	6	0.9811	10.792	64621	NOORSAR T-1	11.000	6 0.9993 10.992
64622	NOORSAR T-2	11.000	6	1.0357	11.392	64821	MNCHNBAD T1	11.000	6 1.0092 11.101
64822	T-2	11.000	6	1.0098	11.107	64881	T-1	11.000	6 0.9961 10.957
64882	T-2	11.000	6	0.9686	10.654	64891	T-1	11.000	6 1.0268 11.295
64892	T-2	11.000	6	0.9742	10.717	64911	MCLD.GNJ T1	11.000	6 1.0187 11.205
64912	MCLD GNG T-2		6	1.0124		65012	HARONABD T-2	11.000	6 1.0122 11.135
65013	HARONABD T-1	11.000	6	1.0122	11.135	65014	HARONABD T-3	11.000	6 1.0119 11.131
65121	FAQIRWLI-T1	11.000	6	1.0347	11.382	65122	FAQIRWLI-T2	11.000	6 1.0347 11.382
65191	T-1	11.000	6	1.0337	11.371	65192	T-2	11.000	6 1.0337 11.371
65211	FORTABAS-T1		6	1.0314		65212	FORTABAST-2	11.000	6 1.0266 11.292
70001	MIANCHNU T1	11.000	6	1.0569	11.626	70002	MIANCHNU T-2	11.000	6 1.0385 11.424
70003	MIANCHNU T-3	11.000	6	1.0262	11.288	70011	CHAK-83-T1	11.000	6 1.0232 11.255
70012	CHAK-83-T2	11.000	6	1.0232	11.255	70061	H SIDNAI T-1	11.000	6 0.9992 10.992
70062	H SIDNAI T-2	11.000	6	1.0215	11.236	70101	KACHAKHU T-1	11.000	6 0.9934 10.927
70102	KACHAKHU T-2	11.000	6	0.9934	10.927	70103	KACHAKHU T-3	11.000	6 1.0007 11.008
70201	KHANEWAL T-1	11.000	6	1.0094	11.104	70202	KHANEWAL T-2	11.000	6 1.0032 11.036
70203	KHANEWAL T-3	11.000	6	1.0035	11.038	70301	KABIRWLA T-1	11.000	6 1.0127 11.140
70302	KABIRWLA T-2	11.000	6	1.0352	11.387	70303	KABIRWLA T-3	11.000	6 0.9826 10.808
70321	MP PAHOR T-1	11.000	6	0.9885	10.873	70322	MP PAHOR T-2	11.000	6 0.9573 10.531
70401	GARHMORE T-1	11.000	6	1.0024	11.026	70402	GARHMORE T-2	11.000	6 1.0144 11.158

70421	B-BANGLA	T-111.000	6	1.0011	11.012	70501	JEHANIAN	T-111.000	6 1.0014 11.015
70502	JEHANIAN	T-211.000	6	1.0296	11.326	70503	JEHANIAN	T-311.000	6 0.9977 10.975
70601	CHAK.211	T-111.000	6	1.0158	11.173	70602	CHAK 211	T-211.000	6 1.0135 11.148
70603	CHAK 211	T-311.000	6	1.0268	11.295	70701	MAILSI	T-1 11.000	6 1.0260 11.286
70702	MAILSI	T-2 11.000	6	1.0260	11.286	70703	MAILSI	T-3 11.000	6 1.0212 11.234
70751	MUKHDM.R	T-111.000	6	0.9883	10.872	70752	MUKHDM.R	T-211.000	6 0.9736 10.710
71101	BASTIMLK	T-111.000	6	1.0065	11.072	71102	BASTIMLK	T-211.000	6 1.0046 11.051
71103	BASTIMLK	T-311.000	6	1.0046	11.051	71111	T-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	T-1	11.000	6	1.0044	11.049	71412	T-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	T-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-PUR-T1	11.000	6	0.9694	10.664	71592	MUB-PUR-T2	11.000	6 0.9694 10.664
71601	LIAQATPR	T-111.000	6	0.9654	10.619	71602	LIAQATPR	T-211.000	6 0.9654 10.619
71702	AHMDPR.E	T-211.000	6	1.0092	11.101	71703	AHMDPR.E	T-311.000	6 0.9982 10.980
71704	AHMDPR.E	T4 11.000	6	0.9990	10.989	71801	FEROZA	T-1 11.000	6 1.0403 11.443
71802	FEROZA	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	MWQRSHIA	T-111.000	6 1.0634 11.697
72102	MWQRSHIA	T2 11.000	6	1.0483	11.532	72103	T-3	11.000	6 1.0609 11.670
72111	T-1	11.000	6	1.0118	11.130	72112	T-2	11.000	6 1.0075 11.082
72201	R.Y.KHAN	T-111.000	6	1.0136	11.150	72202	R.Y.KHAN	T-211.000	6 0.9768 10.745
72203	R.Y.KHAN	T-311.000	6	1.0188	11.207	72204	T-4	11.000	6 0.9995 10.995
72251	R.Y.KHN2	T-111.000	6	0.9684	10.652	72252	R.Y.KHN2	T-211.000	6 0.9631 10.594
72253	T-3	11.000	6	1.0058	11.064	72291	T-1	11.000	6 0.9864 10.851
72292	T-2	11.000	6	0.9864	10.851	72301	SADIQABD	T-111.000	6 1.0207 11.227
72302	SADIQABD	T-211.000	6	1.0207	11.227	72303	SADIQABD	T-311.000	6 1.0351 11.386
72304	LALPIR	11.000	6	1.0240	11.264	72311	WALANA	T-1 11.000	6 1.0052 11.057
72312	WALANA	T-2 11.000	6	1.0102	11.112	72351	NAWAZ	T-1 11.000	6 0.9940 10.934
72352	NAWAZAB	T-2 11.000	6	1.0143	11.158	72353	T-3	11.000	6 1.0175 11.192
72401	J.D.WALI	T-111.000	6	0.9792	10.771	72402	JDWALI	T-2 11.000	6 0.9537 10.491
72403	J D WALI	T-311.000	6	1.0243	11.268	72501	MN.KH.RD	T-111.000	6 1.0091 11.100

72502	MN.KH.RD T-2	11.000	6	1.0046	11.051	72503	MN.KH.RD T-3	11.000	6 1.0091 11.100
72551	WAP TO T-1	11.000	6	1.0287	11.315	72552	WAPDA TO T-2	11.000	6 1.0023 11.026
72554	T-3	11.000	6	0.9950	10.945	72601	MN.BS.RD T-1	11.000	6 1.0272 11.299
72602	MN.BS.RD T-2	11.000	6	0.9930	10.923	72603	MN.BS.RD T-3	11.000	6 1.0272 11.299
72604	T-4	11.000	6	0.9923	10.915	72611	PNJB HSG T-1	11.000	6 1.0094 11.103
72612	PNJB HSG T-2	11.000	6	1.0094	11.103	72621	BUCH VLS T-1	11.000	6 1.0208 11.228
72651	Q BAGH T-1	11.000	6	0.9804	10.784	72652	Q BAGH T-2	11.000	6 0.9868 10.854
72691	T-1	11.000	6	0.9856	10.842	72692	T-2	11.000	6 0.9856 10.842
72701	MLN-IND T-1	11.000	6	1.0249	11.274	72702	MLN-IND T-2	11.000	6 0.9607 10.567
72703	MLN-IND T-3	11.000	6	1.0124	11.137	72731	SURJ MNI T-1	11.000	6 1.0293 11.322
72732	SURJ MNI T-2	11.000	6	1.0161	11.177	72801	MN.VR.RD T-1	11.000	6 1.0241 11.265
72802	MN.VR.RD T-2	11.000	6	1.0530	11.583	72803	MN.VR.RD T-3	11.000	6 1.0306 11.337
72804	T-4	11.000	6	0.9995	10.994	72851	QASIMPUR T-1	11.000	6 1.0337 11.371
72852	QASIMPUR T-2	11.000	6	1.0251	11.276	72853	QASIMPUR T-3	11.000	6 1.0444 11.488
72854	T-4	11.000	6	0.9935	10.929	72871	M.J RD T-1	11.000	6 0.9617 10.579
72872	M.J.RD T-2	11.000	6	0.9617	10.579	72881	SHUJABAD T-1	11.000	6 1.0233 11.256
72882	SHUJABAD T-2	11.000	6	1.0236	11.260	72883	SHUJABAD T-3	11.000	6 0.9970 10.968
72891	J.P.W T-1	11.000	6	1.0360	11.396	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	73112	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
73281	KBGASHER T-1	11.000	6	1.0133	11.147	73282	KBGASHER T-2	11.000	6 1.0146 11.160
73301	MZFRGARH T-1	11.000	6	0.9882	10.870	73302	MZFRGARH T-2	11.000	6 0.9874 10.861
73303	MZFRGARH T-3	11.000	6	0.9882	10.870	73312	KOTADU-O T-2	11.000	6 1.0420 11.462
73313	KOTADU-O T-3	11.000	6	1.0368	11.405	73314	KOTADU-O T-4	11.000	6 1.0288 11.317
73321	N.A.WALI T-2	11.000	6	1.0181	11.199	73322	N.A.WALI T-1	11.000	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
73351	KOTSULTAN-T1	11.000	6	1.0205	11.225	73352	KOTSULTAN-T2	11.000	6 1.0342 11.377
73361	KAROR L.E-T1	11.000	6	0.9876	10.863	73362	KAROR L.E-T2		6 0.9876
73401	MEHRKHAS T-1	11.000	6	1.0276	11.304	73402	MEHRKHAS T-2	11.000	6 1.0276 11.304
73403	MEHRKHAS T-3		6	0.9834		73501	DMR WALA T-1	11.000	6 1.0154 11.169
73502	DMR WALA T-2	11.000	6	0.9477	10.425	73601	JATOIJNB T-1	11.000	6 1.0228 11.251
73602	JATOIJNB T-2	11.000	6	1.0122	11.134	73603	T-3	11.000	6 1.0127 11.139
73701	KHRPRSDT T-1	11.000	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	T-3	11.000	6	1.0110	11.121	74111	T-1	11.000	6 0.9694 10.664
74121	T-1	11.000	6	1.0079	11.086	74131	T-1	11.000	6 1.0079 11.087
74141	T-1	11.000	6	1.0158	11.173	74161	T-1	11.000	6 1.0112 11.123
74401	CHOKMNDA T-1	11.000	6	1.0238	11.262	74402	CHOKMNDA T-2	11.000	6 1.0183 11.201

74502	CHAUBARA T-2	11.000	6	1.0192	11.212	74562	CHOKAZAM T1	11.000	6	1.0287	11.315
74563	T-3	11.000	6	1.0057	11.063	74591	KHANGARH T-1	11.000	6	0.9653	10.619
74592	KHANGARH T-2	11.000	6	0.9699	10.668	74602	D.G.KHAN T-2	11.000	6	1.0158	11.173
74603	D.G.KHAN T-3	11.000	6	1.0186	11.204	74604	D.G.KHAN T-4	11.000	6	1.0057	11.062
74641	T-1	11.000	6	0.9925	10.917	74651	KOTCHUTA T-1	11.000	6	0.9901	10.891
74652	KOTCHUTA T-2	11.000	6	0.9901	10.891	74653	KOTCHUTTA T3	11.000	6	0.9945	10.940
74691	CHOTI T-1	11.000	6	0.9973	10.971	74701	ROJHAN T-1	11.000	6	1.0017	11.018
74731	T-1	11.000	6	0.9941	10.935	75901	SKHISRWR T-1	11.000	6	0.9942	10.936
75902	SKISRWR T-2	11.000	6	0.9801	10.781	77811	YAZMAN-T-1	11.000	6	0.9936	10.930
77812	YAZMAN T-2	11.000	6	0.9936	10.930	77911	MAROOT T1	11.000	6	1.0465	11.511
77912	MAROOT T-2	11.000	6	1.0359	11.395	78311	FATEHPUR T-1	11.000	6	0.9883	10.872
78312	FATEPUR T-2	11.000	6	1.0025	11.028	78313	T-3	11.000	6	1.0321	11.353
78401	T1	11.000	6	0.9978	10.976	78901	NAWANKOT T-1	11.000	6	1.0109	11.120
79091	D.G.K.II T-1	11.000	6	1.0308	11.339	79092	D.G.K.II T-2	11.000	6	1.0184	11.202
79301	JAMPUR T-1	11.000	6	0.9855	10.840	79302	JAMPUR T-2	11.000	6	1.0071	11.078
79331	FAZALPUR T-1	11.000	6	1.0087	11.096	79332	FAZALPUR T-2	11.000	6	0.9990	10.989
79511	RAJANPUR T-1	11.000	6	1.0196	11.216	79512	RAJANPUR T-2	11.000	6	1.0196	11.216
79513	RAJANPUR T-3		6	0.9995		79741	UCH.SHRF T-2	11.000	6	1.0059	11.065
79742	UCH.SHRF T-3	11.000	6	0.9840	10.824	79743	UCH.SHRF T-1	11.000	6	1.0117	11.129
79811	ALI PUR T-1	11.000	6	0.9930	10.923	79812	ALIPUR T-2	11.000	6	1.0046	11.050
79813	ALIPUR T-3	11.000	6	0.9859	10.845	79821	T-1	11.000	6	0.9755	10.731
79822	T-2	11.000	6	0.9755	10.731	79841	H.R. KAN T1	11.000	6	1.0339	11.373
79842	T-2	11.000	6	1.0025	11.028	79904	T-4	11.000	6	0.9833	10.816
79961	FRT MNRO T-1	11.000	6	1.0128	11.140	79962	T-2	11.000	6	1.0125	11.138
732512	LSM-132KV	132.00	6	1.0247	135.26						

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 --	X BASKV	AREA	V(PU)	V(KV)	BUS#	X-- NAME --	X BASKV	AREA	V(PU)	V(KV)
401	T-3	11.000	6	0.9860	10.846	502	T-3	11.000	6	0.9921	10.913
529	PARCO	220.00	6	1.0386	228.50	5282	FATMA ENERGY	132.00	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	6090	SAHIWAL-O	132.00	6	1.0115	133.52
6095	SAHIWAL III	132.00	6	1.0086	133.14	6100	NOORPUR	132.00	6	1.0049	132.65
6101	PAKPATTAN-2	132.00	6	0.9991	131.88	6120	PAKPATAN	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	GAGOO	132.00	6	0.9479	125.13	6169	VEHARI-N	132.00	6	0.9933	131.11
6170	VEHARI-O	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-O	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 132	132.00	6	0.9793	129.27	6239	CHISTIAN 132	132.00	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-SOLAR	132.00	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	127.61	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

7000	MIANCHNU	132.00	6	0.9768	128.94	7001	CHAK-83-132	132.00	6	0.9922	130.97
7002	KASSOWAL	132.00	6	1.0097	133.28	7006	HEAD SIDHNAI	132.00	6	0.9593	126.62
7010	KACHAKHU	132.00	6	0.9645	127.31	7020	KHANEWAL	132.00	6	0.9743	128.60
7029	FAUJI-K	132.00	6	1.0000	132.00	7030	KABIRWLA	132.00	6	0.9669	127.63
7032	MP.PAHOR	132.00	6	0.9572	126.35	7040	GARHMORE	132.00	6	0.9681	127.79
7042	B-BANGLA	132.00	6	0.9557	126.16	7050	JEHANIAN	132.00	6	0.9623	127.03
7060	CHAK.211	132.00	6	0.9449	124.72	7070	MAILSI	132.00	6	0.9490	125.26
7075	MUKHDM.R	132.00	6	0.9632	127.15	7100	P.GAIB-1	132.00	6	1.0074	132.97
7109	P.GAIB-2	132.00	6	0.9914	130.87	7110	BASTIMLK	132.00	6	0.9683	127.82
7111	KHANEWAL-2	132.00	6	0.9768	128.93	7115	MIRAN PUR	132.00	6	0.9686	127.85
7120	LODHRAN	132.00	6	1.0000	132.00	7125	LAR	132.00	6	0.9691	127.92
7130	BU.JADID	132.00	6	0.9950	131.35	7138	BWPN-2	132.00	6	0.9996	131.94
7139	B.W.P-N	132.00	6	1.0301	135.98	7140	BHAWALPR	132.00	6	1.0122	133.61
7141	LODHRAN-2	132.00	6	1.0091	133.21	7145	BPUR CANTT	132.00	6	1.0252	135.33
7146	CREST-ENERGY	132.00	6	1.0200	134.64	7147	KARORPCA	132.00	6	0.9571	126.34
7148	QAD-SOL-I	132.00	6	1.0189	134.49	7149	DUNYAPUR	132.00	6	0.9433	124.51
7150	SAMASATA	132.00	6	0.9903	130.72	7153	KOT KHALIFA	132.00	6	0.9680	127.77
7159	MUB-PUR	132.00	6	0.9799	129.34	7160	LIAQATPR	132.00	6	0.9728	128.41
7170	AHMDPR.E	132.00	6	0.9749	128.69	7175	RYK-PP	132.00	6	1.0100	133.32
7180	FEROZA	132.00	6	1.0099	133.31	7185	KHANBELA	132.00	6	0.9913	130.85
7190	HAMZA-PP	132.00	6	1.0000	132.00	7200	KHANPUR	132.00	6	1.0042	132.55
7210	MWQRSHIA	132.00	6	1.0169	134.23	7211	VEHARI-2	132.00	6	0.9929	131.06
7220	R.Y.KHAN	132.00	6	0.9952	131.37	7221	RYK-NEW	132.00	6	1.0230	135.04
7225	R.Y.KHN2	132.00	6	0.9849	130.01	7229	RYK-3	132.00	6	0.9979	131.73
7230	SADIQABD	132.00	6	1.0147	133.94	7231	SANJARPUR	132.00	6	1.0191	134.52
7232	JDW II USM P	132.00	6	1.0300	135.96	7235	NAWAZABD	132.00	6	1.0196	134.59
7237	RIE	132.00	6	1.0116	133.53	7240	J.D.WALI	132.00	6	1.0013	132.17
7250	MN.KH.RD	132.00	6	1.0100	133.32	7255	WAPDATWN	132.00	6	0.9979	131.73
7260	MN.BS.RD	132.00	6	0.9915	130.88	7261	PUNJAB HOSNG	132.00	6	1.0060	132.79
7262	BUCH VILLAS	132.00	6	0.9895	130.62	7265	QASIMBGH	132.00	6	0.9949	131.32
7269	RAWAN ROAD	132.00	6	0.9990	131.87	7270	MLN-IND	132.00	6	0.9930	131.08
7272	COCA COLA	132.00	6	0.9930	131.08	7273	SURAJ MIANI	132.00	6	0.9909	130.80
7275	C.T.MILL	132.00	6	0.9922	130.97	7277	APL	132.00	6	0.9757	128.80
7280	MN.VR.RD	132.00	6	0.9954	131.40	7285	QASIMPUR	132.00	6	0.9934	131.12
7287	M.JAILRD	132.00	6	0.9873	130.33	7288	SHUJABAD	132.00	6	0.9457	124.84
7289	JALALPWL	132.00	6	0.9604	126.77	7290	MESCO	132.00	6	0.9831	129.77
7300	KAPCO	132.00	6	1.0490	138.47	7311	MZFRGARH-2	132.00	6	1.0061	132.80
7320	GUJRAT.S	132.00	6	1.0241	135.18	7325	LAYYAH	132.00	6	1.0225	134.97
7328	KBGASHER	132.00	6	1.0233	135.07	7330	MZFRGARH	132.00	6	1.0050	132.66
7331	KOTADU-O	132.00	6	1.0472	138.23	7332	N.A.WALI	132.00	6	1.0308	136.07
7333	S.S.DIN	132.00	6	1.0073	132.97	7334	M GARH NEW	132.00	6	1.0065	132.85
7335	KOTSULTAN	132.00	6	1.0323	136.27	7336	KAROR L.E	132.00	6	1.0087	133.15
7337	EPGL	132.00	6	1.0200	134.64	7339	DUMMY IND	132.00	6	1.0053	132.69

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.LND	132.00	6	1.0161	134.12	7400	TAUNSA	132.00	6	1.0047	132.63
7411	MIANCHANU-2	132.00	6	0.9741	128.58	7412	P.GHAIB132KV	132.00	6	1.0039	132.52
7413	SHAH JAMAL	132.00	6	1.0065	132.85	7414	KOT MITHAN	132.00	6	1.0166	134.19
7416	DRAWAR MORE	132.00	6	1.0053	132.70	7435	PARCO	132.00	6	1.0113	133.50
7436	T-PARCO	132.00	6	1.0114	133.50	7440	CHOKMNDA	132.00	6	1.0344	136.55
7442	T-AHTM	132.00	6	1.0395	137.22	7443	AHTM	132.00	6	1.0395	137.21
7450	CHAUBARA	132.00	6	1.0294	135.89	7456	CHOKAZAM	132.00	6	1.0196	134.58
7459	KHANGARH	132.00	6	0.9810	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
7464	JAMPR 66-132	132.00	6	1.0000	132.00	7465	KOTCHUTA	132.00	6	1.0030	132.40
7466	T-ATM	132.00	6	1.0054	132.72	7467	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.SUHANRA132	132.00	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	66.000	6	1.0422	68.788
7831	FATEHPUR	132.00	6	1.0046	132.61	7840	RANGPUR	66.000	6	1.0232	67.531
7842	T-RANGPR	66.000	6	1.0397	68.619	7880	CHAUBARA	66.000	6	1.0274	67.808
7890	NAWANKOT	66.000	6	1.0230	67.521	7891	T.NWANKOT	66.000	6	1.0233	67.536
7909	D.G.KHAN II	132.00	6	1.0043	132.57	7930	JAMPUR	132.00	6	1.0019	132.25
7933	FAZALPUR	132.00	6	1.0069	132.91	7951	RAJANPUR	132.00	6	1.0123	133.63
7959	INDUS ENERGY	132.00	6	1.0200	134.64	7974	UCH.SHRF	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-1	11.000	6	0.9988	10.987	60302	QADIRABD T-2	11.000	6	0.9988	10.987
60501	BNGAHYAT T-1	11.000	6	0.9778	10.756	60502	BNGAHYAT T-2	11.000	6	0.9741	10.715
60801	SAHIWALN T-1	11.000	6	0.9642	10.607	60802	SAHIWALN T-2	11.000	6	0.9642	10.607
60803	T-3	11.000	6	1.0127	11.140	60901	SAHWAL-O T-1	11.000	6	1.0125	11.138
60902	SAHWAL-O T-2	11.000	6	0.9915	10.906	60903	SAHWAL-O T-3	11.000	6	1.0125	11.138
60951	SWL III T-1	11.000	6	1.0100	11.110	60952	SWL III T-2	11.000	6	0.9810	10.791
60953	T-3	11.000	6	1.0035	11.038	61001	NOORPUR T-1	11.000	6	0.9961	10.957
61002	NOORPUR T-2	11.000	6	0.9853	10.838	61004	T-3	11.000	6	0.9766	10.742
61011	T-1	11.000	6	0.9830	10.813	61012	T-2	11.000	6	0.9816	10.797
61201	PAKPATAN T-1	11.000	6	0.9662	10.628	61202	PAKPATAN T-2	11.000	6	0.9662	10.628
61203	PAKPATAN T-3	11.000	6	0.9602	10.562	61301	HARAPPA T-1	11.000	6	0.9591	10.550
61302	HARAPPA T-2	11.000	6	1.0032	11.035	61401	CHCHWTNI T-1		6	1.0059	
61402	CHCHWTNI T-2	11.000	6	1.0130	11.143	61403	CHCHWTNI T-3	11.000	6	1.0007	11.008
61491	T-1	11.000	6	0.9834	10.818	61501	SH.FAZAL T-1	11.000	6	1.0093	11.102
61502	SH.FAZAL T-2	11.000	6	1.0093	11.102	61503	T-3	11.000	6	1.0258	11.284
61601	BUREWALA T-1	11.000	6	1.0227	11.249	61602	BUREWALA T-2	11.000	6	0.9929	10.922
61603	BUREWALA T-3	11.000	6	0.9609	10.570	61621	BREWLA-O T-1	11.000	6	0.9773	10.750

61622	BREWLA-O T-2	11.000	6	0.9946	10.941	61623	T-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	VEHARI-O T-1	11.000	6	0.9869	10.856	61702	VEHARI-O T-2	11.000	6 1.0185 11.203
61703	VEHARI-T-3	11.000	6	0.9945	10.940	61751	LUDDEN T-1	11.000	6 0.9422 10.364
61752	LUDDEN T-2	11.000	6	0.9422	10.364	61781	KARAMPUR T-1	11.000	6 0.9978 10.976
61782	KARAMPUR T-2	11.000	6	1.0081	11.089	61791	T1	11.000	6 0.9653 10.619
61792	T2	11.000	6	0.9653	10.619	61801	ARIFWALA T-3	11.000	6 1.0140 11.154
61802	ARIFWALA T-2	11.000	6	1.0140	11.154	61803	ARIFWALA T-1	11.000	6 0.9730 10.703
61811	T-1	11.000	6	0.9526	10.479	61812	T-2	11.000	6 0.9526 10.479
61821	KAMIRW T-1	11.000	6	0.9658	10.624	61822	KAMIR W T-2	11.000	6 0.9658 10.624
61901	BWL.NAGR T-1	11.000	6	0.9620	10.581	61902	T-3	11.000	6 0.9472 10.419
61903	BWL.NAGR T-3	11.000	6	0.9620	10.581	61911	HOTA T-1	11.000	6 0.9432 10.375
61912	HOTA T-2	11.000	6	0.9933	10.926	62001	QABULA T-1	11.000	6 0.9862 10.848
62002	QABULA T-2	11.000	6	0.9965	10.962	62003	QABULA T-3	11.000	6 0.9796 10.776
62101	SAHUKA T-1	11.000	6	0.9861	10.847	62102	SAHUKA T-2	11.000	6 1.0069 11.076
62202	HASILPUR T-2	11.000	6	0.9823	10.805	62203	HASILPUR T-3	11.000	6 0.9856 10.842
62204	T-4	11.000	6	0.9651	10.617	62211	CHUNAW T-1	11.000	6 0.9880 10.868
62301	CHISTIAN T-1	11.000	6	0.9657	10.623	62302	CHISTIAN T-2	11.000	6 0.9939 10.932
62303	CHISTIAO T3	11.000	6	0.9844	10.829	62321	DHRANWALA-T1	11.000	6 0.9836 10.820
62322	DHRANWALA-T2	11.000	6	0.9836	10.820	62381	T-1	11.000	6 0.9670 10.637
62391	T-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	6 0.9877 10.864
64191	L.SOHAN T-1	11.000	6	0.9622	10.584	64211	K.P.TOMI T-1	11.000	6 0.9695 10.665
64212	K.P.TOMI T-2	11.000	6	0.9670	10.637	64621	NOORSAR T-1	11.000	6 0.9765 10.741
64622	NOORSAR T-2	11.000	6	1.0130	11.143	64821	MNCHNBAD T1	11.000	6 0.9832 10.816
64822	T-2	11.000	6	0.9851	10.836	64881	T-1	11.000	6 0.9729 10.702
64882	T-2	11.000	6	0.9468	10.415	64891	T-1	11.000	6 1.0028 11.031
64892	T-2	11.000	6	0.9513	10.464	64911	MCLD.GNJ T1	11.000	6 0.9929 10.922
64912	MCLD GNG T-2		6	0.9868		65012	HARONABD T-2	11.000	6 0.9843 10.828
65013	HARONABD T-1	11.000	6	0.9843	10.828	65014	HARONABD T-3	11.000	6 0.9838 10.821
65121	FAQIRWLI-T1	11.000	6	1.0099	11.109	65122	FAQIRWLI-T2	11.000	6 1.0099 11.109
65191	T-1	11.000	6	1.0078	11.086	65192	T-2	11.000	6 1.0078 11.086
65211	FORTABAS-T1		6	1.0051		65212	FORTABAST-2	11.000	6 1.0007 11.007
70001	MIANCHNU T1	11.000	6	1.0447	11.492	70002	MIANCHNU T-2	11.000	6 1.0256 11.282
70003	MIANCHNU T-3	11.000	6	1.0142	11.156	70011	CHAK-83-T1	11.000	6 1.0104 11.114
70012	CHAK-83-T2	11.000	6	1.0104	11.114	70061	H SIDNAI T-1	11.000	6 0.9870 10.857
70062	H SIDNAI T-2	11.000	6	1.0110	11.121	70101	KACHAKHU T-1	11.000	6 0.9839 10.823
70102	KACHAKHU T-2	11.000	6	0.9839	10.823	70103	KACHAKHU T-3	11.000	6 0.9919 10.911
70201	KHANEWAL T-1	11.000	6	1.0020	11.023	70202	KHANEWAL T-2	11.000	6 0.9956 10.951
70203	KHANEWAL T-3	11.000	6	0.9962	10.958	70301	KABIRWLA T-1	11.000	6 1.0043 11.048
70302	KABIRWLA T-2	11.000	6	1.0268	11.295	70303	KABIRWLA T-3	11.000	6 0.9746 10.720
70321	MP PAHOR T-1	11.000	6	0.9765	10.741	70322	MP PAHOR T-2	11.000	6 0.9498 10.448
70401	GARHMORE T-1	11.000	6	0.9816	10.798	70402	GARHMORE T-2	11.000	6 0.9946 10.941

70421	B-BANGLA T-111.000	6	0.9925	10.918	70501	JEHANIAN T-111.000	6	0.9839	10.823
70502	JEHANIAN T-211.000	6	1.0120	11.132	70503	JEHANIAN 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
70603	CHAK 211 T-311.000	6	1.0068	11.075	70701	MAILSI T-1 11.000	6	1.0055	11.061
70702	MAILSI T-2 11.000	6	1.0055	11.061	70703	MAILSI T-3 11.000	6	0.9996	10.995
70751	MUKHDM.R T-111.000	6	0.9712	10.684	70752	MUKHDM.R T-211.000	6	0.9590	10.549
71101	BASTIMLK T-111.000	6	0.9935	10.929	71102	BASTIMLK T-211.000	6	0.9917	10.909
71103	BASTIMLK T-311.000	6	0.9917	10.909	71111	T-1 11.000	6	0.9798	10.778
71112	T-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	BHAWALPR 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
71453	T-3 11.000	6	1.0219	11.241	71471	KARORPCA T-111.000	6	0.9801	10.781
71472	KARORPCA T-211.000	6	1.0092	11.101	71473	KARORPCA T-311.000	6	0.9793	10.772
71491	DUNYAPUR T-311.000	6	0.9990	10.989	71492	DUNYAPUR T-411.000	6	0.9990	10.989
71501	SAMASATA T-111.000	6	0.9607	10.567	71502	SAMASATA T-211.000	6	0.9607	10.567
71531	T-1 11.000	6	0.9445	10.389	71532	T-2 11.000	6	0.9375	10.313
71591	MUB-PUR-T1 11.000	6	0.9648	10.613	71592	MUB-PUR-T2 11.000	6	0.9648	10.613
71601	LIAQATPR T-111.000	6	0.9573	10.531	71602	LIAQATPR T-211.000	6	0.9573	10.531
71702	AHMDPR.E T-211.000	6	1.0055	11.060	71703	AHMDPR.E T-311.000	6	0.9946	10.941
71704	AHMDPR.E T4 11.000	6	0.9953	10.949	71801	FEROZA T-1 11.000	6	1.0351	11.386
71802	FEROZA T-2 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	T-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	T-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	SADIQABD T-111.000	6	1.0164	11.180
72302	SADIQABD 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	J.D.WALI T-111.000	6	0.9747	10.722	72402	JDWALI T-2 11.000	6	0.9488	10.437
72403	J D WALI T-311.000	6	1.0206	11.226	72501	MN.KH.RD T-111.000	6	1.0005	11.006

72502	MN.KH.RD T-211.000	6	0.9958	10.953	72503	MN.KH.RD T-311.000	6	1.0005	11.006
72551	WAP TO T-1 11.000	6	1.0208	11.229	72552	WAPDA TO T-211.000	6	0.9944	10.938
72554	T-3 11.000	6	0.9876	10.863	72601	MN.BS.RD T-111.000	6	1.0189	11.208
72602	MN.BS.RD T-211.000	6	0.9810	10.791	72603	MN.BS.RD T-311.000	6	1.0189	11.208
72604	T-4 11.000	6	0.9845	10.830	72611	PNJB HSG T-111.000	6	1.0017	11.019
72612	PNJB HSG T-211.000	6	1.0017	11.019	72621	BUCH VLS T-111.000	6	1.0112	11.123
72651	Q BAGH T-1 11.000	6	0.9728	10.701	72652	Q BAGH T-2 11.000	6	0.9789	10.767
72691	T-1 11.000	6	0.9786	10.764	72692	T-2 11.000	6	0.9786	10.764
72701	MLN-IND T-1 11.000	6	1.0151	11.166	72702	MLN-IND T-2 11.000	6	0.9503	10.454
72703	MLN-IND T-3 11.000	6	1.0019	11.021	72731	SURJ MNI T-111.000	6	1.0199	11.219
72732	SURJ MNI T-211.000	6	1.0071	11.078	72801	MN.VR.RD T-111.000	6	1.0168	11.185
72802	MN.VR.RD T-211.000	6	1.0455	11.500	72803	MN.VR.RD T-311.000	6	1.0234	11.258
72804	T-4 11.000	6	0.9926	10.918	72851	QASIMPUR T-111.000	6	1.0260	11.287
72852	QASIMPUR T-211.000	6	1.0176	11.194	72853	QASIMPUR T-311.000	6	1.0367	11.404
72854	T-4 11.000	6	0.9864	10.851	72871	M.J RD T-1 11.000	6	0.9500	10.450
72872	M.J.RD T-2 11.000	6	0.9500	10.450	72881	SHUJABAD T-111.000	6	1.0066	11.073
72882	SHUJABAD T-211.000	6	1.0071	11.078	72883	SHUJABAD T-311.000	6	0.9826	10.808
72891	J.P.W T-1 11.000	6	1.0160	11.176	72892	J.P.W T-2 11.000	6	1.0156	11.171
72893	J.P.W T-3 11.000	6	1.0232	11.255	72901	MESCO T-1 11.000	6	0.9967	10.964
72902	MESCO T-2 11.000	6	1.0448	11.492	72903	MESCO T-3 11.000	6	1.0160	11.176
73111	T-1 11.000	6	1.0055	11.061	73112	T-2 11.000	6	1.0055	11.061
73201	GUJRAT.S T1 11.000	6	1.0188	11.207	73202	GUJRAT.S T3 11.000	6	1.0245	11.270
73203	GUJRAT.S T2 11.000	6	1.0181	11.199	73251	LAYYAH T-1 11.000	6	1.0170	11.187
73252	LAYYAH T-2 11.000	6	1.0170	11.187	73253	LAYYAH T-3 11.000	6	1.0191	11.210
73281	KBGASHER T-111.000	6	1.0083	11.092	73282	KBGASHER T-211.000	6	1.0097	11.107
73301	MZFRGARH T-111.000	6	0.9756	10.731	73302	MZFRGARH T-211.000	6	0.9747	10.721
73303	MZFRGARH T-311.000	6	0.9756	10.731	73312	KOTADU-O T-211.000	6	1.0393	11.432
73313	KOTADU-O T-311.000	6	1.0331	11.364	73314	KOTADU-O T-411.000	6	1.0270	11.297
73321	N.A.WALI T-211.000	6	1.0160	11.176	73322	N.A.WALI T-111.000	6	1.0213	11.234
73331	S S DIN T1 11.000	6	1.0220	11.242	73332	S S DIN T2 11.000	6	0.9998	10.998
73351	KOTSULTAN-T111.000	6	1.0175	11.193	73352	KOTSULTAN-T211.000	6	1.0308	11.339
73361	KAROR L.E-T111.000	6	0.9833	10.816	73362	KAROR L.E-T2	6	0.9833	
73401	MEHRKHAS T-111.000	6	0.9994	10.993	73402	MEHRKHAS T-211.000	6	0.9994	10.993
73403	MEHRKHAS T-3	6	0.9567		73501	DMR WALA T-111.000	6	0.9798	10.778
73502	DMR WALA T-211.000	6	0.9104	10.014	73601	JATOIJNB T-111.000	6	0.9815	10.796
73602	JATOIJNB T-211.000	6	0.9700	10.670	73603	T-3 11.000	6	0.9719	10.691
73701	KHRPRSDT T-111.000	6	0.9397	10.337	73702	KHPRSDT T-2 11.000	6	0.9452	10.397
73951	SHA.LND T-1 11.000	6	1.0076	11.083	73952	SHA LND T-2 11.000	6	0.9811	10.792
74001	TAUNSA T-1 11.000	6	0.9809	10.790	74002	TAUNSA T-2 11.000	6	0.9809	10.790
74003	T-3 11.000	6	1.0085	11.094	74111	T-1 11.000	6	0.9621	10.583
74121	T-1 11.000	6	1.0014	11.015	74131	T-1 11.000	6	1.0002	11.002
74141	T-1 11.000	6	1.0143	11.157	74161	T-1 11.000	6	1.0028	11.031
74401	CHOKMNDA T-111.000	6	1.0214	11.236	74402	CHOKMNDA T-211.000	6	1.0159	11.175

74502	CHAUBARA T-2	11.000	6	1.0137	11.151	74562	CHOKAZAM T1	11.000	6 1.0235 11.258
74563	T-3	11.000	6	1.0017	11.019	74591	KHANGARH T-1	11.000	6 0.9414 10.355
74592	KHANGARH T-2	11.000	6	0.9475	10.422	74602	D.G.KHAN T-2	11.000	6 1.0028 11.030
74603	D.G.KHAN T-3	11.000	6	1.0059	11.064	74604	D.G.KHAN T-4	11.000	6 0.9897 10.887
74641	T-1	11.000	6	0.9860	10.846	74651	KOTCHUTA T-1	11.000	6 0.9833 10.816
74652	KOTCHUTA T-2	11.000	6	0.9833	10.816	74653	KOTCHUTTA T3	11.000	6 0.9877 10.865
74691	CHOTI T-1	11.000	6	0.9914	10.905	74701	ROJHAN T-1	11.000	6 1.0010 11.011
74731	T-1	11.000	6	0.9875	10.863	75901	SKHISRWR T-1	11.000	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
77912	MAROOT T-2	11.000	6	1.0108	11.119	78311	FATEHPUR T-1	11.000	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	T1	11.000	6	0.9952	10.948	78901	NAWANKOT T-1	11.000	6 1.0066 11.073
79091	D.G.K.II T-1	11.000	6	1.0219	11.241	79092	D.G.K.II T-2	11.000	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-1	11.000	6	1.0045	11.049	79332	FAZALPUR T-2	11.000	6 0.9949 10.944
79511	RAJANPUR T-1	11.000	6	1.0177	11.195	79512	RAJANPUR T-2	11.000	6 1.0177 11.195
79513	RAJANPUR T-3		6	0.9976		79741	UCH.SHRF T-2	11.000	6 0.9990 10.989
79742	UCH.SHRF T-3	11.000	6	0.9776	10.754	79743	UCH.SHRF T-1	11.000	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
79813	ALIPUR T-3	11.000	6	0.9376	10.313	79821	T-1	11.000	6 0.9162 10.079
79822	T-2	11.000	6	0.9162	10.079	79841	H.R. KAN T1	11.000	6 1.0255 11.281
79842	T-2	11.000	6	0.9942	10.937	79904	T-4	11.000	6 0.9756 10.732
79961	FRT MNRO T-1	11.000	6	1.0085	11.094	79962	T-2	11.000	6 1.0083 11.092
732512	LSM-132KV	132.00	6	1.0218	134.88				

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 --X	BASKV	AREA	V(PU)	V(KV)	BUS#	X-- NAME --X	BASKV	AREA	V(PU)	V(KV)
401	T-3	11.000	6	0.9967	10.963	502	T-3	11.000	6	0.9933	10.927
529	PARCO	220.00	6	1.0386	228.50	5282	FATMA ENERGY	132.00	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	GAGOO	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	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	132.00	6	0.9916	130.89	6239	CHISTIAN 132	132.00	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-SOLAR	132.00	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	0.9773	129.01
6521	FORTABAS	132.00	6	0.9824	129.68	6666	MULTAN-N	132.00	6	1.0146	133.93

7000	MIANCHNU	132.00	6	0.9814	129.54	7001	CHAK-83-132	132.00	6	0.9970	131.60
7002	KASSOWAL	132.00	6	1.0149	133.97	7006	HEAD SIDHNAI	132.00	6	0.9621	127.00
7010	KACHAKHU	132.00	6	0.9677	127.74	7020	KHANEWAL	132.00	6	0.9767	128.93
7029	FAUJI-K	132.00	6	1.0000	132.00	7030	KABIRWLA	132.00	6	0.9703	128.07
7032	MP.PAHOR	132.00	6	0.9605	126.79	7040	GARHMORE	132.00	6	0.9796	129.31
7042	B-BANGLA	132.00	6	0.9588	126.56	7050	JEHANIAN	132.00	6	0.9739	128.56
7060	CHAK.211	132.00	6	0.9646	127.33	7070	MAILSI	132.00	6	0.9745	128.64
7075	MUKHDM.R	132.00	6	0.9724	128.36	7100	P.GAIB-1	132.00	6	1.0087	133.15
7109	P.GAIB-2	132.00	6	0.9971	131.62	7110	BASTIMLK	132.00	6	0.9871	130.30
7111	KHANEWAL-2	132.00	6	0.9799	129.35	7115	MIRAN PUR	132.00	6	0.9851	130.03
7120	LODHRAN	132.00	6	1.0121	133.59	7125	LAR	132.00	6	0.9832	129.78
7130	BU.JADID	132.00	6	1.0056	132.74	7138	BWPN-2	132.00	6	1.0022	132.29
7139	B.W.P-N	132.00	6	1.0388	137.13	7140	BHAWALPR	132.00	6	1.0239	135.15
7141	LODHRAN-2	132.00	6	1.0200	134.64	7145	BPUR CANTT	132.00	6	1.0312	136.12
7146	CREST-ENERGY	132.00	6	1.0214	134.83	7147	KARORPCA	132.00	6	0.9904	130.73
7148	QAD-SOL-I	132.00	6	1.0200	134.64	7149	DUNYAPUR	132.00	6	0.9776	129.04
7150	SAMASATA	132.00	6	0.9927	131.04	7153	KOT KHALIFA	132.00	6	0.9690	127.91
7159	MUB-PUR	132.00	6	0.9818	129.60	7160	LIAQATPR	132.00	6	0.9733	128.48
7170	AHMDPR.E	132.00	6	0.9765	128.90	7175	RYK-PP	132.00	6	1.0100	133.32
7180	FEROZA	132.00	6	1.0113	133.49	7185	KHANBELA	132.00	6	0.9928	131.04
7190	HAMZA-PP	132.00	6	1.0000	132.00	7200	KHANPUR	132.00	6	1.0067	132.88
7210	MWQRSHIA	132.00	6	1.0185	134.45	7211	VEHARI-2	132.00	6	1.0039	132.52
7220	R.Y.KHAN	132.00	6	0.9969	131.59	7221	RYK-NEW	132.00	6	1.0246	135.25
7225	R.Y.KHN2	132.00	6	0.9900	130.68	7229	RYK-3	132.00	6	0.9993	131.91
7230	SADIQABD	132.00	6	1.0155	134.04	7231	SANJARPUR	132.00	6	1.0197	134.60
7232	JDW II USM P	132.00	6	1.0300	135.96	7235	NAWAZABD	132.00	6	1.0203	134.67
7237	RIE	132.00	6	1.0125	133.65	7240	J.D.WALI	132.00	6	1.0023	132.30
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	6	0.9929	131.07	7261	PUNJAB HOSNG	132.00	6	1.0072	132.95
7262	BUCH VILLAS	132.00	6	0.9911	130.82	7265	QASIMBGH	132.00	6	0.9939	131.19
7269	RAWAN ROAD	132.00	6	1.0002	132.03	7270	MLN-IND	132.00	6	0.9949	131.33
7272	COCA COLA	132.00	6	0.9949	131.33	7273	SURAJ MIANI	132.00	6	0.9927	131.03
7275	C.T.MILL	132.00	6	0.9941	131.22	7277	APL	132.00	6	0.9890	130.54
7280	MN.VR.RD	132.00	6	0.9944	131.26	7285	QASIMPUR	132.00	6	0.9912	130.84
7287	M.JAILRD	132.00	6	0.9892	130.58	7288	SHUJABAD	132.00	6	0.9793	129.27
7289	JALALPWL	132.00	6	0.9736	128.51	7290	MESCO	132.00	6	0.9825	129.68
7300	KAPCO	132.00	6	1.0490	138.47	7311	MZFRGARH-2	132.00	6	1.0080	133.05
7320	GUJRAT.S	132.00	6	1.0251	135.31	7325	LAYYAH	132.00	6	1.0258	135.40
7328	KBGASHER	132.00	6	1.0241	135.18	7330	MZFRGARH	132.00	6	1.0069	132.92
7331	KOTADU-O	132.00	6	1.0474	138.25	7332	N.A.WALI	132.00	6	1.0323	136.26
7333	S.S.DIN	132.00	6	1.0087	133.15	7334	M GARH NEW	132.00	6	1.0083	133.10
7335	KOTSULTAN	132.00	6	1.0344	136.54	7336	KAROR L.E	132.00	6	1.0133	133.75
7337	EPGL	132.00	6	1.0200	134.64	7338	LAYYAH-2	132.00	6	1.0189	134.50

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	6	0.9650	127.38	7395	SHAD.LND	132.00	6	1.0163	134.15
7400	TAUNSA	132.00	6	1.0050	132.66	7411	MIANCHANU-2	132.00	6	0.9776	129.04
7412	P.GHAIB132KV	132.00	6	1.0046	132.61	7413	SHAH JAMAL	132.00	6	1.0083	133.10
7414	KOT MITHAN	132.00	6	1.0169	134.24	7416	DRAWAR MORE	132.00	6	1.0147	133.94
7435	PARCO	132.00	6	1.0118	133.56	7436	T-PARCO	132.00	6	1.0119	133.57
7440	CHOKMNDA	132.00	6	1.0358	136.73	7442	T-AHTM	132.00	6	1.0404	137.34
7443	AHTM	132.00	6	1.0404	137.33	7450	CHAUBARA	132.00	6	1.0325	136.30
7456	CHOKAZAM	132.00	6	1.0230	135.04	7459	KHANGARH	132.00	6	0.9864	130.21
7460	D.G.KHAN	132.00	6	1.0083	133.10	7462	MDC-DGK	132.00	6	1.0135	133.78
7463	CPC-DGK	132.00	6	1.0089	133.18	7464	JAMPR 66-132	132.00	6	1.0013	132.17
7465	KOTCHUTA	132.00	6	1.0046	132.61	7466	T-ATM	132.00	6	1.0072	132.95
7467	ATM	132.00	6	1.0072	132.95	7469	CHOTI 132	132.00	6	1.0094	133.25
7470	ROJHAN	132.00	6	1.0321	136.23	7473	DAJAL132	132.00	6	0.9998	131.97
7477	ZENFA	132.00	6	1.0335	136.42	7511	KOT SAMABA	132.00	6	1.0062	132.82
7580	CMNT.FCT	132.00	6	1.0124	133.63	7590	SKHISRWR	132.00	6	1.0116	133.53
7650	L.SUHANRA132	132.00	6	1.0243	135.21	7711	BAHAWALPUR-2	132.00	6	1.0103	133.36
7781	YAZMAN	132.00	6	1.0171	134.26	7791	MAROOT	132.00	6	1.0012	132.16
7800	KOTADDU	66.000	6	1.0424	68.801	7831	FATEHPUR	132.00	6	1.0105	133.39
7840	RANGPUR	66.000	6	1.0234	67.545	7842	T-RANGPR	66.000	6	1.0399	68.632
7892	NAWAKOT	132.00	6	1.0321	136.23	7909	D.G.KHAN II	132.00	6	1.0061	132.81
7911	ARRAY WAHAN	132.00	6	0.9783	129.13	7930	JAMPUR	132.00	6	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	11.000	6	1.0182	11.200
60303	T-3	11.000	6	1.0270	11.296	60501	BNGAHYAT T-1	11.000	6	0.9925	10.917
60502	BNGAHYAT T-2	11.000	6	0.9919	10.910	60503	T-3	11.000	6	0.9932	10.925
60801	SAHIWALN T-1	11.000	6	0.9682	10.650	60802	SAHIWALN T-2	11.000	6	0.9682	10.650
60803	T-3	11.000	6	1.0163	11.180	60901	SAHWAL-O T-1	11.000	6	1.0167	11.184
60902	SAHWAL-O T-2	11.000	6	0.9955	10.951	60903	SAHWAL-O T-3	11.000	6	1.0167	11.184
60951	SWL III T-1	11.000	6	1.0144	11.158	60952	SWL III T-2	11.000	6	0.9851	10.836
60953	T-3	11.000	6	1.0075	11.082	61001	NOORPUR T-1	11.000	6	1.0005	11.005
61002	NOORPUR T-2	11.000	6	0.9895	10.885	61004	T-3	11.000	6	0.9806	10.787
61011	T-1	11.000	6	0.9870	10.857	61012	T-2	11.000	6	0.9856	10.842
61201	PAKPATAN T-1	11.000	6	0.9707	10.677	61202	PAKPATAN T-2	11.000	6	0.9707	10.677
61203	PAKPATAN T-3	11.000	6	0.9646	10.611	61301	HARAPPA T-1	11.000	6	0.9641	10.605
61302	HARAPPA T-2	11.000	6	1.0086	11.095	61401	CHCHWTNI T-1		6	1.0120	
61402	CHCHWTNI T-2	11.000	6	1.0192	11.211	61403	CHCHWTNI T-3	11.000	6	1.0068	11.075
61491	T-1	11.000	6	0.9888	10.877	61501	SH.FAZAL T-1	11.000	6	1.0194	11.214
61502	SH.FAZAL T-2	11.000	6	1.0194	11.214	61503	T-3	11.000	6	1.0358	11.394

61601	BUREWALA T-1	11.000	6	1.0362	11.398	61602	BUREWALA T-2	11.000	6 1.0063 11.069
61603	BUREWALA T-3	11.000	6	0.9734	10.707	61621	BREWLA-O T-1	11.000	6 0.9907 10.898
61622	BREWLA-O T-2	11.000	6	1.0085	11.094	61623	T-3	11.000	6 0.9962 10.958
61631	GAGOO T-1	11.000	6	1.0152	11.167	61632	GAGOO T-2	11.000	6 1.0167 11.184
61701	VEHARI-O T-1	11.000	6	0.9994	10.993	61702	VEHARI-O T-2	11.000	6 1.0313 11.345
61703	VEHARI-T-3	11.000	6	1.0071	11.078	61751	LUDDEN T-1	11.000	6 0.9891 10.880
61752	LUDDEN T-2	11.000	6	1.0204	11.225	61781	KARAMPUR T-1	11.000	6 1.0158 11.174
61782	KARAMPUR T-2	11.000	6	1.0266	11.292	61791	T1	11.000	6 0.9769 10.746
61792	T2	11.000	6	0.9769	10.746	61801	ARIFWALA T-3	11.000	6 1.0274 11.301
61802	ARIFWALA T-2	11.000	6	1.0274	11.301	61803	ARIFWALA T-1	11.000	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-1	11.000	6	0.9776	10.753	61902	T-3	11.000	6 1.0142 11.156
61903	BWL.NAGR T-3	11.000	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	T-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-2	11.000	6 1.0009 11.010
62203	HASILPUR T-3	11.000	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-1	11.000	6 0.9799 10.779
62302	CHISTIAN T-2	11.000	6	1.0083	11.092	62303	CHISTIAO T3	11.000	6 1.0124 11.136
62321	DHRANWALA-T1	11.000	6	0.9974	10.971	62322	DHRANWALA-T2	11.000	6 0.9974 10.971
62381	T-1	11.000	6	0.9798	10.778	62391	T-1	11.000	6 0.9878 10.866
62392	T-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-1	11.000	6	0.9901	10.891	64212	K.P.TOMI T-2	11.000	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 1.0134 11.148
64891	T-1	11.000	6	1.0162	11.179	64892	T-2	11.000	6 1.0162 11.179
64911	MCLD.GNJ T1	11.000	6	1.0084	11.093	64912	MCLD GNG T-2		6 1.0022
65012	HARONABD T-2	11.000	6	0.9984	10.982	65013	HARONABD T-1	11.000	6 0.9984 10.982
65014	HARONABD T-3	11.000	6	0.9979	10.977	65121	FAQIRWLI-T1	11.000	6 1.0234 11.257
65122	FAQIRWLI-T2	11.000	6	1.0234	11.257	65191	T-1	11.000	6 1.0214 11.236
65192	T-2	11.000	6	1.0214	11.236	65211	FORTABAS-T1		6 1.0188
65212	FORTABAST-2	11.000	6	1.0142	11.156	70001	MIANCHNU T1	11.000	6 1.0499 11.549
70002	MIANCHNU T-2	11.000	6	1.0309	11.340	70003	MIANCHNU T-3	11.000	6 1.0193 11.212
70011	CHAK-83-T1	11.000	6	1.0157	11.172	70012	CHAK-83-T2	11.000	6 1.0157 11.172
70061	H SIDNAI T-1	11.000	6	0.9905	10.895	70062	H SIDNAI T-2	11.000	6 1.0143 11.157
70101	KACHAKHU T-1	11.000	6	0.9877	10.864	70102	KACHAKHU T-2	11.000	6 0.9877 10.864
70103	KACHAKHU T-3	11.000	6	0.9956	10.951	70201	KHANEWAL T-1	11.000	6 1.0048 11.053
70202	KHANEWAL T-2	11.000	6	0.9984	10.982	70203	KHANEWAL T-3	11.000	6 0.9989 10.988
70301	KABIRWLA T-1	11.000	6	1.0082	11.090	70302	KABIRWLA T-2	11.000	6 1.0307 11.338

70303	KABIRWLA T-311.000	6	0.9782	10.761	70321	MP PAHOR T-111.000	6	0.9804	10.784
70322	MP PAHOR T-211.000	6	1.0041	11.045	70401	GARHMORE T-111.000	6	0.9948	10.943
70402	GARHMORE T-211.000	6	1.0076	11.083	70421	B-BANGLA T-111.000	6	0.9958	10.953
70501	JEHANIAN T-111.000	6	0.9972	10.969	70502	JEHANIAN T-211.000	6	1.0255	11.281
70503	JEHANIAN T-311.000	6	0.9937	10.930	70601	CHAK.211 T-111.000	6	1.0167	11.183
70602	CHAK 211 T-211.000	6	1.0142	11.156	70603	CHAK 211 T-311.000	6	1.0291	11.320
70701	MAILSI T-1 11.000	6	1.0381	11.419	70702	MAILSI T-2 11.000	6	1.0381	11.419
70703	MAILSI T-3 11.000	6	1.0343	11.377	70751	MUKHDM.R T-111.000	6	0.9820	10.802
70752	MUKHDM.R T-211.000	6	0.9690	10.659	71101	BASTIMLK T-111.000	6	1.0148	11.163
71102	BASTIMLK T-211.000	6	1.0128	11.141	71103	BASTIMLK T-311.000	6	1.0128	11.141
71111	T-1 11.000	6	0.9831	10.814	71112	T-2 11.000	6	0.9789	10.768
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	71202	LODHRAN T-2 11.000	6	1.0430	11.472
71203	LODHRAN T-3 11.000	6	1.0480	11.528	71251	LART-1 11.000	6	0.9894	10.883
71252	LAR T-2 11.000	6	0.9894	10.883	71301	BU.JADID T-111.000	6	1.0218	11.240
71302	BU.JADID T-211.000	6	0.9890	10.879	71401	BHAWALPR T-111.000	6	1.0461	11.507
71402	BHAWALPR T-211.000	6	1.0447	11.492	71403	BHAWALPR T-311.000	6	1.0320	11.352
71405	BWP 66.000	6	1.0239	67.576	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	6	1.0221	11.244	71453	T-3 11.000	6	1.0280	11.308
71471	KARORPCA T-111.000	6	1.0499	11.549	71472	KARORPCA T-211.000	6	1.0499	11.549
71473	KARORPCA T-311.000	6	1.0369	11.405	71491	DUNYAPUR T-311.000	6	1.0385	11.423
71492	DUNYAPUR T-411.000	6	1.0385	11.423	71501	SAMASATA T-111.000	6	0.9631	10.595
71502	SAMASATA T-211.000	6	0.9631	10.595	71531	T-1 11.000	6	0.9456	10.402
71532	T-2 11.000	6	0.9386	10.325	71591	MUB-PUR-T1 11.000	6	0.9668	10.635
71592	MUB-PUR-T2 11.000	6	0.9668	10.635	71601	LIAQATPR T-111.000	6	0.9579	10.537
71602	LIAQATPR T-211.000	6	0.9579	10.537	71702	AHMDPR.E T-211.000	6	1.0073	11.080
71703	AHMDPR.E T-311.000	6	0.9963	10.960	71704	AHMDPR.E T4 11.000	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
71851	KHANBELA T-111.000	6	0.9684	10.652	71852	KHANBELA T-2	6	1.0439	
71853	T-3 11.000	6	0.9795	10.775	72001	KHANPUR T-1 11.000	6	1.0310	11.341
72002	KHANPUR T-2 11.000	6	0.9648	10.613	72003	KHANPUR T-3 11.000	6	0.9779	10.757
72101	MWQRSHIA T-111.000	6	0.9783	10.761	72102	MWQRSHIA T2 11.000	6	1.0533	11.586
72103	T-3 11.000	6	1.0066	11.073	72111	T-1 11.000	6	1.0076	11.083
72112	T-2 11.000	6	1.0033	11.036	72201	R.Y.KHAN T-111.000	6	1.0096	11.106
72202	R.Y.KHAN T-211.000	6	0.9728	10.701	72203	R.Y.KHAN T-311.000	6	1.0149	11.164
72204	T-4 11.000	6	0.9975	10.972	72251	R.Y.KHN2 T-111.000	6	0.9837	10.820
72252	R.Y.KHN2 T-211.000	6	0.9733	10.706	72253	T-3 11.000	6	1.0138	11.152
72291	T-1 11.000	6	0.9850	10.835	72292	T-2 11.000	6	0.9850	10.835
72301	SADIQABD T-111.000	6	1.0172	11.190	72302	SADIQABD T-211.000	6	1.0172	11.190
72303	SADIQABD T-311.000	6	1.0317	11.349	72304	LALPIR 11.000	6	1.0203	11.224
72311	WALANA T-1 11.000	6	1.0023	11.025	72312	WALANA T-2 11.000	6	1.0075	11.083
72351	NAWAZ T-1 11.000	6	0.9933	10.926	72352	NAWAZAB T-2 11.000	6	1.0136	11.150

72353	T-3	11.000	6	1.0167	11.184	72401	J.D.WALI T-1	11.000	6	0.9758	10.734
72402	JDWALI T-2	11.000	6	1.0072	11.079	72403	J D WALI T-3	11.000	6	1.0217	11.238
72501	MN.KH.RD T-1	11.000	6	1.0017	11.019	72502	MN.KH.RD T-2	11.000	6	0.9970	10.967
72503	MN.KH.RD T-3	11.000	6	1.0017	11.019	72551	WAP TO T-1	11.000	6	1.0222	11.244
72552	WAPDA TO T-2	11.000	6	0.9957	10.953	72554	T-3	11.000	6	0.9889	10.878
72601	MN.BS.RD T-1	11.000	6	1.0205	11.225	72602	MN.BS.RD T-2	11.000	6	0.9827	10.809
72603	MN.BS.RD T-3	11.000	6	1.0205	11.225	72604	T-4	11.000	6	0.9860	10.846
72611	PNJB HSG T-1	11.000	6	1.0030	11.032	72612	PNJB HSG T-2	11.000	6	1.0030	11.032
72621	BUCH VLS T-1	11.000	6	1.0129	11.141	72651	Q BAGH T-1	11.000	6	0.9718	10.690
72652	Q BAGH T-2	11.000	6	0.9778	10.756	72691	T-1	11.000	6	0.9798	10.778
72692	T-2	11.000	6	0.9798	10.778	72701	MLN-IND T-1	11.000	6	1.0171	11.188
72702	MLN-IND T-2	11.000	6	1.0085	11.093	72703	MLN-IND T-3	11.000	6	1.0040	11.044
72731	SURJ MNI T-1	11.000	6	1.0218	11.239	72732	SURJ MNI T-2	11.000	6	1.0089	11.098
72801	MN.VR.RD T-1	11.000	6	1.0157	11.172	72802	MN.VR.RD T-2	11.000	6	1.0443	11.488
72803	MN.VR.RD T-3	11.000	6	1.0223	11.246	72804	T-4	11.000	6	0.9915	10.907
72851	QASIMPUR T-1	11.000	6	1.0237	11.260	72852	QASIMPUR T-2	11.000	6	1.0153	11.168
72853	QASIMPUR T-3	11.000	6	1.0343	11.378	72854	T-4	11.000	6	0.9842	10.826
72871	M.J RD T-1	11.000	6	1.0100	11.110	72872	M.J.RD T-2	11.000	6	1.0304	11.334
72881	SHUJABAD T-1	11.000	6	1.0462	11.509	72882	SHUJABAD T-2	11.000	6	1.0466	11.512
72883	SHUJABAD T-3	11.000	6	1.0194	11.214	72891	J.P.W T-1	11.000	6	1.0313	11.345
72892	J.P.W T-2	11.000	6	1.0308	11.339	72893	J.P.W T-3	11.000	6	1.0381	11.419
72901	MESCO T-1	11.000	6	0.9960	10.956	72902	MESCO T-2	11.000	6	1.0440	11.484
72903	MESCO T-3	11.000	6	1.0153	11.168	73111	T-1	11.000	6	1.0074	11.081
73112	T-2	11.000	6	1.0074	11.081	73201	GUJRAT.S T1	11.000	6	1.0200	11.219
73202	GUJRAT.S T3	11.000	6	1.0256	11.281	73203	GUJRAT.S T2	11.000	6	1.0192	11.211
73251	LAYYAH T-1	11.000	6	1.0241	11.266	73252	LAYYAH T-2	11.000	6	1.0241	11.266
73253	LAYYAH T-3	11.000	6	1.0243	11.268	73281	KBGASHER T-1	11.000	6	1.0092	11.101
73282	KBGASHER T-2	11.000	6	1.0105	11.116	73301	MZFRGARH T-1	11.000	6	0.9777	10.755
73302	MZFRGARH T-2	11.000	6	0.9768	10.745	73303	MZFRGARH T-3	11.000	6	0.9777	10.755
73312	KOTADU-O T-2	11.000	6	1.0395	11.435	73313	KOTADU-O T-3	11.000	6	1.0333	11.367
73314	KOTADU-O T-4	11.000	6	1.0272	11.299	73321	N.A.WALI T-2	11.000	6	1.0319	11.350
73322	N.A.WALI T-1	11.000	6	1.0351	11.386	73323	T-3	11.000	6	1.0234	11.257
73331	S S DIN T1	11.000	6	1.0235	11.258	73332	S S DIN T2	11.000	6	1.0012	11.014
73351	KOTSULTAN-T1	11.000	6	1.0196	11.216	73352	KOTSULTAN-T2	11.000	6	1.0329	11.362
73361	KAROR L.E-T1	11.000	6	0.9941	10.935	73362	KAROR L.E-T2		6	0.9941	
73381	T-1	11.000	6	1.0185	11.204	73401	MEHRKHAS T-1	11.000	6	1.0057	11.063
73402	MEHRKHAS T-2	11.000	6	1.0187	11.205	73403	MEHRKHAS T-3		6	1.0196	
73501	DMR WALA T-1	11.000	6	0.9894	10.883	73502	DMR WALA T-2	11.000	6	0.9747	10.722
73601	JATOIJNB T-1	11.000	6	0.9939	10.933	73602	JATOIJNB T-2	11.000	6	0.9827	10.810
73603	T-3	11.000	6	0.9841	10.826	73701	KHRPRSDT T-1	11.000	6	1.0078	11.086
73702	KHPRSDT T-2	11.000	6	1.0113	11.124	73951	SHA.LND T-1	11.000	6	1.0077	11.085
73952	SHA LND T-2	11.000	6	0.9813	10.794	74001	TAUNSA T-1	11.000	6	0.9812	10.793
74002	TAUNSA T-2	11.000	6	0.9812	10.793	74003	T-3	11.000	6	1.0088	11.097

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	T-1	11.000	6	1.0123	11.136	74401	CHOKMNDA T-1	11.000	6	1.0229	11.252
74402	CHOKMNDA T-2	11.000	6	1.0174	11.191	74502	CHAUBARA T-2	11.000	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-1	11.000	6	1.0045	11.049	74592	KHANGARH T-2	11.000	6	1.0088	11.096
74602	D.G.KHAN T-2	11.000	6	1.0047	11.052	74603	D.G.KHAN T-3	11.000	6	1.0078	11.086
74604	D.G.KHAN T-4	11.000	6	0.9917	10.909	74641	T-1	11.000	6	0.9874	10.862
74651	KOTCHUTA T-1	11.000	6	0.9849	10.834	74652	KOTCHUTA T-2	11.000	6	0.9849	10.834
74653	KOTCHUTTA T3	11.000	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	T-2	11.000	6	0.9893	10.883	75111	T-1	11.000	6	1.0097	11.107
75112	T-2	11.000	6	1.0018	11.020	75901	SKHISRWR T-1	11.000	6	0.9906	10.896
75902	SKISRWR T-2	11.000	6	0.9759	10.735	76111	T-1	11.000	6	1.0060	11.066
77112	T-2	11.000	6	1.0060	11.066	77811	YAZMAN-T-1	11.000	6	0.9939	10.933
77812	YAZMAN T-2	11.000	6	0.9939	10.933	77911	MAROOT T1	11.000	6	1.0351	11.386
77912	MAROOT T-2	11.000	6	1.0240	11.264	78311	FATEHPUR T-1	11.000	6	0.9889	10.878
78312	FATEPUR T-2	11.000	6	1.0030	11.033	78313	T-3	11.000	6	1.0325	11.358
78401	T1	11.000	6	0.9955	10.950	78921	T1	11.000	6	1.0250	11.274
79091	D.G.K.II T-1	11.000	6	1.0239	11.263	79092	D.G.K.II T-2	11.000	6	1.0109	11.120
79111	T-1	11.000	6	0.9732	10.705	79112	T-2	11.000	6	0.9732	10.705
79301	JAMPUR T-1	11.000	6	0.9787	10.766	79302	JAMPUR T-2	11.000	6	1.0012	11.013
79331	FAZALPUR T-1	11.000	6	1.0053	11.058	79332	FAZALPUR T-2	11.000	6	0.9957	10.953
79511	RAJANPUR T-1	11.000	6	1.0182	11.200	79512	RAJANPUR T-2	11.000	6	1.0182	11.200
79513	RAJANPUR T-3		6	0.9980		79741	UCH.SHRF T-2	11.000	6	1.0008	11.009
79742	UCH.SHRF T-3	11.000	6	0.9794	10.773	79743	UCH.SHRF T-1	11.000	6	1.0061	11.067
79811	ALI PUR T-1	11.000	6	0.9930	10.923	79812	ALIPUR T-2	11.000	6	1.0099	11.109
79813	ALIPUR T-3	11.000	6	1.0069	11.075	79821	T-1	11.000	6	0.9827	10.810
79822	T-2	11.000	6	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-1	11.000	6	1.0099	11.109	79962	T-2	11.000	6	1.0097	11.107
732512	LSM-132KV	132.00	6	1.0252	135.32						

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	--X BASKV	AREA	V(PU)	V(KV)	BUS#	X-- NAME	--X BASKV	AREA	V(PU)	V(KV)
401	T-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 ENERGY	132.00	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	6175	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	6181	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	HOTA	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-O	132.00	6	0.9717	128.27
6231	CHSTAN-N	132.00	6	0.9774	129.02	6232	DHARWALA132	132.00	6	0.9632	127.14
6238	BUKHSHAN 132	132.00	6	0.9738	128.54	6239	CHISTIAN 132	132.00	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-GREEN	132.00	6	1.0122	133.61
6421	K.P.TOMI	132.00	6	0.9804	129.41	6422	APPOLO-SOLAR	132.00	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 BNGA	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	KHICHIWALA	132.00	6	0.9555	126.12
6521	FORTABAS	132.00	6	0.9610	126.85	6666	MULTAN-N	132.00	6	1.0195	134.57

7000	MIANCHNU	132.00	6	0.9730	128.44	7001	CHAK-83-132	132.00	6	0.9888	130.52
7002	KASSOWAL	132.00	6	1.0066	132.87	7006	HEAD SIDHNAI	132.00	6	0.9550	126.06
7010	KACHAKHU	132.00	6	0.9616	126.94	7020	KHANEWAL	132.00	6	0.9728	128.40
7029	FAUJI-K	132.00	6	1.0000	132.00	7030	KABIRWLA	132.00	6	0.9651	127.40
7032	MP.PAHOR	132.00	6	0.9544	125.99	7040	GARHMORE	132.00	6	0.9665	127.57
7042	B-BANGLA	132.00	6	0.9520	125.66	7050	JEHANIAN	132.00	6	0.9627	127.07
7060	CHAK.211	132.00	6	0.9507	125.50	7070	MAILSI	132.00	6	0.9605	126.79
7075	MUKHDM.R	132.00	6	0.9634	127.17	7100	P.GAIB-1	132.00	6	1.0143	133.88
7109	P.GAIB-2	132.00	6	0.9930	131.08	7110	BASTIMLK	132.00	6	0.9944	131.27
7111	KHANEWAL-2	132.00	6	0.9759	128.81	7115	MIRAN PUR	132.00	6	0.9890	130.54
7120	LODHRAN	132.00	6	1.0101	133.33	7125	LAR	132.00	6	0.9858	130.12
7130	BU.JADID	132.00	6	1.0034	132.44	7138	BWPN-2	132.00	6	1.0009	132.12
7139	B.W.P-N	132.00	6	1.0359	136.74	7140	BHAWALPR	132.00	6	1.0211	134.79
7141	LODHRAN-2	132.00	6	1.0176	134.32	7145	BPUR CANTT	132.00	6	1.0289	135.81
7146	CREST-ENERGY	132.00	6	1.0200	134.64	7147	KARORPCA	132.00	6	0.9808	129.46
7148	QAD-SOL-I	132.00	6	1.0181	134.39	7149	DUNYAPUR	132.00	6	0.9668	127.61
7150	SAMASATA	132.00	6	0.9911	130.83	7153	KOT KHALIFA	132.00	6	0.9662	127.54
7159	MUB-PUR	132.00	6	0.9795	129.29	7160	LIAQATPR	132.00	6	0.9708	128.14
7170	AHMDPR.E	132.00	6	0.9743	128.61	7175	RYK-PP	132.00	6	1.0100	133.32
7180	FEROZA	132.00	6	1.0090	133.19	7185	KHANBELA	132.00	6	0.9885	130.48
7190	HAMZA-PP	132.00	6	1.0000	132.00	7200	KHANPUR	132.00	6	1.0046	132.61
7210	MWQRSHIA	132.00	6	1.0173	134.28	7211	VEHARI-2	132.00	6	0.9908	130.78
7220	R.Y.KHAN	132.00	6	0.9942	131.23	7221	RYK-NEW	132.00	6	1.0231	135.05
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	134.35
7232	JDW II USM P	132.00	6	1.0300	135.96	7235	NAWAZABD	132.00	6	1.0187	134.47
7237	RIE	132.00	6	1.0106	133.40	7240	J.D.WALI	132.00	6	0.9995	131.94
7250	MN.KH.RD	132.00	6	1.0159	134.10	7255	WAPDATWN	132.00	6	1.0029	132.38
7260	MN.BS.RD	132.00	6	0.9959	131.46	7261	PUNJAB HOSNG	132.00	6	1.0116	133.54
7262	BUCH VILLAS	132.00	6	0.9931	131.10	7265	QASIMBGH	132.00	6	1.0073	132.96
7269	RAWAN ROAD	132.00	6	1.0045	132.59	7270	MLN-IND	132.00	6	0.9948	131.32
7272	COCA COLA	132.00	6	0.9948	131.32	7273	SURAJ MIANI	132.00	6	0.9935	131.15
7275	C.T.MILL	132.00	6	0.9940	131.21	7277	APL	132.00	6	0.9712	128.20
7280	MN.VR.RD	132.00	6	1.0078	133.03	7285	QASIMPUR	132.00	6	1.0088	133.16
7287	M.JAILRD	132.00	6	0.9923	130.98	7288	SHUJABAD	132.00	6	0.9923	130.98
7289	JALALPWL	132.00	6	0.9682	127.80	7290	MESCO	132.00	6	0.9949	131.33
7300	KAPCO	132.00	6	1.0490	138.47	7311	MZFRGARH-2	132.00	6	1.0031	132.41
7320	GUJRAT.S	132.00	6	1.0223	134.94	7325	LAYYAH	132.00	6	1.0201	134.66
7328	KBGASHER	132.00	6	1.0220	134.91	7330	MZFRGARH	132.00	6	1.0015	132.20
7331	KOTADU-O	132.00	6	1.0471	138.21	7332	N.A.WALI	132.00	6	1.0318	136.20
7333	S.S.DIN	132.00	6	1.0045	132.59	7334	M GARH NEW	132.00	6	1.0035	132.46
7335	KOTSULTAN	132.00	6	1.0308	136.07	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	1.0029	132.39

7340	MEHRKHAS	132.00	6	0.9470	125.00	7350	DMR WALA	132.00	6	0.9341	123.30
7360	JATOIJNB	132.00	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	MIANCHANU-2	132.00	6	0.9716	128.26	7412	P.GHAIB132KV	132.00	6	1.0124	133.64
7413	SHAH JAMAL	132.00	6	1.0035	132.46	7414	KOT MITHAN	132.00	6	1.0159	134.10
7416	DRAWAR MORE	132.00	6	1.0054	132.71	7435	PARCO	132.00	6	1.0104	133.37
7436	T-PARCO	132.00	6	1.0104	133.37	7440	CHOKMNDA	132.00	6	1.0339	136.47
7442	T-AHTM	132.00	6	1.0392	137.17	7443	AHTM	132.00	6	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	0.9691	127.93	7460	D.G.KHAN	132.00	6	1.0035	132.46
7462	MDC-DGK	132.00	6	1.0096	133.27	7463	CPC-DGK	132.00	6	1.0044	132.57
7464	JAMPR 66-132	132.00	6	0.9973	131.64	7465	KOTCHUTA	132.00	6	1.0002	132.02
7466	T-ATM	132.00	6	1.0025	132.33	7467	ATM	132.00	6	1.0025	132.33
7469	CHOTI 132	132.00	6	1.0053	132.70	7470	ROJHAN	132.00	6	1.0316	136.17
7473	DAJAL132	132.00	6	0.9957	131.43	7477	ZENFA	132.00	6	1.0300	135.96
7511	KOT SAMABA	132.00	6	1.0040	132.53	7580	CMNT.FCT	132.00	6	1.0083	133.09
7590	SKHISRWR	132.00	6	1.0078	133.02	7650	L.SUHANRA132	132.00	6	1.0228	135.01
7711	BAHAWALPUR-2	132.00	6	1.0079	133.04	7781	YAZMAN	132.00	6	1.0079	133.05
7791	MAROOT	132.00	6	0.9822	129.65	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	NAWAKOT	132.00	6	1.0284	135.75
7909	D.G.KHAN II	132.00	6	1.0014	132.18	7911	ARRAY WAHAN	132.00	6	0.9661	127.52
7930	JAMPUR	132.00	6	0.9992	131.90	7933	FAZALPUR	132.00	6	1.0052	132.69
7951	RAJANPUR	132.00	6	1.0115	133.52	7959	INDUS ENERGY	132.00	6	1.0200	134.64
7974	UCH.SHRF	132.00	6	0.9618	126.96	7981	ALI PUR	132.00	6	0.9184	121.23
7982	JATOI-2	132.00	6	0.9137	120.61	7984	HEAD-RJ-KN	132.00	6	1.0057	132.76
7996	FORT.MINRO	132.00	6	1.0079	133.04	60301	QADIRABD T-1	11.000	6	1.0134	11.148
60302	QADIRABD T-2	11.000	6	1.0134	11.148	60303	T-3	11.000	6	1.0223	11.245
60501	BNGAHYAT T-1	11.000	6	0.9886	10.875	60502	BNGAHYAT T-2	11.000	6	0.9880	10.867
60503	T-3	11.000	6	0.9894	10.884	60801	SAHIWALN T-1	11.000	6	0.9594	10.554
60802	SAHIWALN T-2	11.000	6	0.9594	10.554	60803	T-3	11.000	6	1.0108	11.119
60901	SAHWAL-O T-1	11.000	6	1.0092	11.101	60902	SAHWAL-O T-2	11.000	6	0.9886	10.874
60903	SAHWAL-O T-3	11.000	6	1.0092	11.101	60951	SWL III T-1	11.000	6	1.0063	11.069
60952	SWL III T-2	11.000	6	0.9779	10.757	60953	T-3	11.000	6	1.0009	11.010
61001	NOORPUR T-1	11.000	6	0.9909	10.899	61002	NOORPUR T-2	11.000	6	0.9805	10.785
61004	T-3	11.000	6	0.9727	10.700	61011	T-1	11.000	6	0.9804	10.785
61012	T-2	11.000	6	0.9790	10.769	61201	PAKPATAN T-1	11.000	6	0.9603	10.564
61202	PAKPATAN T-2	11.000	6	0.9603	10.564	61203	PAKPATAN T-3	11.000	6	0.9543	10.497
61301	HARAPPA T-1	11.000	6	0.9550	10.505	61302	HARAPPA T-2	11.000	6	0.9986	10.984
61401	CHCHWTNI T-1		6	1.0014		61402	CHCHWTNI T-2	11.000	6	1.0084	11.093
61403	CHCHWTNI T-3	11.000	6	0.9961	10.957	61491	T-1	11.000	6	0.9794	10.773
61501	SH.FAZAL T-1	11.000	6	1.0039	11.043	61502	SH.FAZAL T-2	11.000	6	1.0039	11.043
61503	T-3	11.000	6	1.0211	11.232	61601	BUREWALA T-1	11.000	6	1.0257	11.283

61602	BUREWALA T-211.000	6	0.9963	10.960	61603	BUREWALA T-311.000	6	0.9621	10.583
61621	BREWLA-O T-111.000	6	0.9705	10.676	61622	BREWLA-O T-211.000	6	0.9872	10.859
61623	T-3 11.000	6	0.9772	10.749	61631	GAGOO T-1 11.000	6	0.9992	10.991
61632	GAGOO T-2 11.000	6	1.0008	11.009	61701	VEHARI-O T-111.000	6	0.9797	10.777
61702	VEHARI-O T-211.000	6	1.0114	11.125	61703	VEHARI-T-3 11.000	6	0.9874	10.862
61751	LUDDEN T-1 11.000	6	0.9702	10.673	61752	LUDDEN T-2 11.000	6	0.9988	10.987
61781	KARAMPUR T-111.000	6	0.9960	10.956	61782	KARAMPUR T-211.000	6	1.0057	11.063
61791	T1 11.000	6	0.9626	10.588	61792	T2 11.000	6	0.9626	10.588
61801	ARIFWALA T-311.000	6	1.0094	11.103	61802	ARIFWALA T-211.000	6	1.0094	11.103
61803	ARIFWALA T-111.000	6	0.9690	10.659	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	T-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	6	1.0124	11.137
61913	T-3 11.000	6	0.9445	10.389	62001	QABULA T-1 11.000	6	0.9815	10.797
62002	QABULA T-2 11.000	6	0.9909	10.900	62003	QABULA T-3 11.000	6	0.9751	10.726
62101	SAHUKA T-1 11.000	6	0.9786	10.765	62102	SAHUKA T-2 11.000	6	0.9993	10.993
62202	HASILPUR T-211.000	6	0.9869	10.856	62203	HASILPUR T-311.000	6	0.9903	10.894
62204	T-4 11.000	6	0.9695	10.665	62211	CHUNAW T-1 11.000	6	0.9923	10.916
62301	CHISTIAN T-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	T-1 11.000	6	0.9591	10.550
62391	T-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.TOMI T-111.000	6	0.9757	10.733
64212	K.P.TOMI T-211.000	6	0.9738	10.712	64621	NOORSAR T-1 11.000	6	0.9702	10.672
64622	NOORSAR T-2 11.000	6	1.0071	11.078	64821	MNCHNBAD T1 11.000	6	0.9747	10.721
64822	T-2 11.000	6	0.9773	10.750	64881	T-1 11.000	6	0.9659	10.625
64882	T-2 11.000	6	0.9925	10.917	64891	T-1 11.000	6	0.9931	10.925
64892	T-2 11.000	6	0.9931	10.925	64911	MCLD.GNJ T1 11.000	6	0.9843	10.827
64912	MCLD GNG T-2	6	0.9782		65012	HARONABD T-211.000	6	0.9712	10.684
65013	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	T-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	MIANCHNU T-211.000	6	1.0193	11.213
70003	MIANCHNU T-311.000	6	1.0086	11.095	70011	CHAK-83-T1 11.000	6	1.0043	11.048
70012	CHAK-83-T2 11.000	6	1.0043	11.048	70061	H SIDNAI T-111.000	6	0.9786	10.765
70062	H SIDNAI T-211.000	6	1.0043	11.048	70101	KACHAKHU T-111.000	6	0.9791	10.770
70102	KACHAKHU T-211.000	6	0.9791	10.770	70103	KACHAKHU T-311.000	6	0.9876	10.864
70201	KHANEWAL T-111.000	6	0.9983	10.982	70202	KHANEWAL T-211.000	6	0.9916	10.907
70203	KHANEWAL T-311.000	6	0.9925	10.917	70301	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

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
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	CHAK.211 T-111.000	6	0.9975	10.972	70602	CHAK 211 T-211.000	6	0.9948	10.943
70603	CHAK 211 T-311.000	6	1.0120	11.132	70701	MAILSI T-1 11.000	6	1.0204	11.224
70702	MAILSI T-2 11.000	6	1.0204	11.224	70703	MAILSI T-3 11.000	6	1.0155	11.171
70751	MUKHDM.R T-111.000	6	0.9676	10.643	70752	MUKHDM.R T-211.000	6	0.9568	10.525
71101	BASTIMLK T-111.000	6	1.0217	11.238	71102	BASTIMLK T-211.000	6	1.0197	11.217
71103	BASTIMLK T-311.000	6	1.0197	11.217	71111	T-1 11.000	6	0.9789	10.768
71112	T-2 11.000	6	0.9747	10.722	71151	MIRAN P T-1 11.000	6	1.0116	11.128
71152	MIRAN P T-2 11.000	6	1.0116	11.128	71201	LODHRAN T-1 11.000	6	1.0390	11.429
71202	LODHRAN T-2 11.000	6	1.0390	11.429	71203	LODHRAN T-3 11.000	6	1.0447	11.492
71251	LART-1 11.000	6	0.9883	10.871	71252	LAR T-2 11.000	6	0.9883	10.871
71301	BU.JADID T-111.000	6	1.0165	11.181	71302	BU.JADID T-211.000	6	0.9803	10.784
71401	BHAWALPR T-111.000	6	1.0418	11.459	71402	BHAWALPR T-211.000	6	1.0404	11.444
71403	BHAWALPR T-311.000	6	1.0278	11.306	71405	BWP 66.000	6	1.0211	67.394
71411	T-1 11.000	6	1.0054	11.059	71412	T-2 11.000	6	1.0054	11.059
71451	BP CANTT T-111.000	6	1.0198	11.218	71452	BPCANTT T-2 11.000	6	1.0198	11.218
71453	T-3 11.000	6	1.0256	11.282	71471	KARORPCA T-111.000	6	1.0360	11.397
71472	KARORPCA T-211.000	6	1.0368	11.405	71473	KARORPCA T-311.000	6	1.0228	11.251
71491	DUNYAPUR T-311.000	6	1.0243	11.268	71492	DUNYAPUR T-411.000	6	1.0243	11.268
71501	SAMASATA T-111.000	6	0.9605	10.565	71502	SAMASATA T-211.000	6	0.9605	10.565
71531	T-1 11.000	6	0.9401	10.341	71532	T-2 11.000	6	0.9327	10.259
71591	MUB-PUR-T1 11.000	6	0.9635	10.599	71592	MUB-PUR-T2 11.000	6	0.9635	10.599
71601	LIAQATPR T-111.000	6	0.9499	10.448	71602	LIAQATPR T-211.000	6	0.9499	10.448
71702	AHMDPR.E T-211.000	6	1.0048	11.053	71703	AHMDPR.E T-311.000	6	0.9940	10.934
71704	AHMDPR.E T4 11.000	6	0.9946	10.941	71801	FEROZA T-1 11.000	6	1.0315	11.347
71802	FEROZA T-2 11.000	6	1.0366	11.403	71851	KHANBELA T-111.000	6	0.9601	10.561
71852	KHANBELA T-2	6	1.0360		71853	T-3 11.000	6	0.9728	10.701
72001	KHANPUR T-1 11.000	6	1.0252	11.277	72002	KHANPUR T-2 11.000	6	0.9574	10.531
72003	KHANPUR T-3 11.000	6	0.9723	10.695	72101	MWQRSHIA T-111.000	6	0.9721	10.694
72102	MWQRSHIA T2 11.000	6	1.0471	11.518	72103	T-3 11.000	6	1.0022	11.024
72111	T-1 11.000	6	0.9941	10.935	72112	T-2 11.000	6	0.9899	10.889
72201	R.Y.KHAN T-111.000	6	1.0083	11.091	72202	R.Y.KHAN T-211.000	6	0.9716	10.687
72203	R.Y.KHAN T-311.000	6	1.0135	11.149	72204	T-4 11.000	6	0.9951	10.946
72251	R.Y.KHN2 T-111.000	6	0.9752	10.727	72252	R.Y.KHN2 T-211.000	6	0.9634	10.597
72253	T-3 11.000	6	1.0065	11.072	72291	T-1 11.000	6	0.9786	10.764
72292	T-2 11.000	6	0.9786	10.764	72301	SADIQABD T-111.000	6	1.0126	11.139
72302	SADIQABD T-211.000	6	1.0126	11.139	72303	SADIQABD T-311.000	6	1.0271	11.298
72304	LALPIR 11.000	6	1.0173	11.190	72311	WALANA T-1 11.000	6	0.9981	10.979
72312	WALANA T-2 11.000	6	1.0036	11.040	72351	NAWAZ T-1 11.000	6	0.9917	10.909
72352	NAWAZAB T-2 11.000	6	1.0121	11.133	72353	T-3 11.000	6	1.0152	11.167

72401	J.D.WALI T-1	11.000	6	0.9711	10.683	72402	JDWALI T-2	11.000	6 1.0021 11.023
72403	J D WALI T-3	11.000	6	1.0177	11.194	72501	MN.KH.RD T-1	11.000	6 1.0054 11.059
72502	MN.KH.RD T-2	11.000	6	1.0004	11.005	72503	MN.KH.RD T-3	11.000	6 1.0054 11.059
72551	WAP TO T-1	11.000	6	1.0255	11.280	72552	WAPDA TO T-2	11.000	6 0.9988 10.986
72554	T-3	11.000	6	0.9922	10.915	72601	MN.BS.RD T-1	11.000	6 1.0239 11.262
72602	MN.BS.RD T-2	11.000	6	0.9828	10.811	72603	MN.BS.RD T-3	11.000	6 1.0239 11.262
72604	T-4	11.000	6	0.9891	10.881	72611	PNJB HSG T-1	11.000	6 1.0069 11.076
72612	PNJB HSG T-2	11.000	6	1.0069	11.076	72621	BUCH VLS T-1	11.000	6 1.0140 11.154
72651	Q BAGH T-1	11.000	6	0.9851	10.836	72652	Q BAGH T-2	11.000	6 0.9912 10.903
72691	T-1	11.000	6	0.9843	10.827	72692	T-2	11.000	6 0.9843 10.827
72701	MLN-IND T-1	11.000	6	1.0157	11.173	72702	MLN-IND T-2	11.000	6 1.0065 11.072
72703	MLN-IND T-3	11.000	6	1.0021	11.023	72731	SURJ MNI T-1	11.000	6 1.0218 11.240
72732	SURJ MNI T-2	11.000	6	1.0091	11.100	72801	MN.VR.RD T-1	11.000	6 1.0304 11.334
72802	MN.VR.RD T-2	11.000	6	1.0594	11.654	72803	MN.VR.RD T-3	11.000	6 1.0368 11.405
72804	T-4	11.000	6	1.0055	11.060	72851	QASIMPUR T-1	11.000	6 1.0436 11.479
72852	QASIMPUR T-2	11.000	6	1.0348	11.383	72853	QASIMPUR T-3	11.000	6 1.0542 11.596
72854	T-4	11.000	6	1.0027	11.030	72871	M.J RD T-1	11.000	6 1.0106 11.117
72872	M.J.RD T-2	11.000	6	1.0322	11.354	72881	SHUJABAD T-1	11.000	6 1.0595 11.655
72882	SHUJABAD T-2	11.000	6	1.0599	11.659	72883	SHUJABAD T-3	11.000	6 1.0326 11.359
72891	J.P.W T-1	11.000	6	1.0226	11.249	72892	J.P.W T-2	11.000	6 1.0223 11.246
72893	J.P.W T-3	11.000	6	1.0306	11.337	72901	MESCO T-1	11.000	6 1.0094 11.103
72902	MESCO T-2	11.000	6	1.0578	11.636	72903	MESCO T-3	11.000	6 1.0287 11.316
73111	T-1	11.000	6	1.0025	11.027	73112	T-2	11.000	6 1.0025 11.027
73201	GUJRAT.S T1	11.000	6	1.0169	11.186	73202	GUJRAT.S T3	11.000	6 1.0227 11.249
73203	GUJRAT.S T2	11.000	6	1.0162	11.178	73251	LAYYAH T-1	11.000	6 1.0112 11.124
73252	LAYYAH T-2	11.000	6	1.0112	11.124	73253	LAYYAH T-3	11.000	6 1.0150 11.165
73281	KBGASHER T-1	11.000	6	1.0061	11.068	73282	KBGASHER T-2	11.000	6 1.0076 11.084
73301	MZFRGARH T-1	11.000	6	0.9678	10.646	73302	MZFRGARH T-2	11.000	6 0.9668 10.635
73303	MZFRGARH T-3	11.000	6	0.9678	10.646	73312	KOTADU-O T-2	11.000	6 1.0370 11.407
73313	KOTADU-O T-3	11.000	6	1.0299	11.329	73314	KOTADU-O T-4	11.000	6 1.0255 11.281
73321	N.A.WALI T-2	11.000	6	1.0313	11.345	73322	N.A.WALI T-1	11.000	6 1.0346 11.380
73323	T-3	11.000	6	1.0228	11.251	73331	S S DIN T1	11.000	6 1.0183 11.202
73332	S S DIN T2	11.000	6	0.9965	10.961	73351	KOTSULTAN-T1	11.000	6 1.0151 11.166
73352	KOTSULTAN-T2	11.000	6	1.0280	11.308	73361	KAROR L.E-T1	11.000	6 0.9782 10.760
73362	KAROR L.E-T2		6	0.9782		73401	MEHRKHAS T-1	11.000	6 0.9780 10.758
73402	MEHRKHAS T-2	11.000	6	0.9913	10.904	73403	MEHRKHAS T-3		6 0.9925
73501	DMR WALA T-1	11.000	6	0.9527	10.479	73502	DMR WALA T-2	11.000	6 0.9349 10.284
73601	JATOIJNB T-1	11.000	6	0.9377	10.315	73602	JATOIJNB T-2	11.000	6 0.9211 10.133
73603	T-3	11.000	6	0.9296	10.225	73701	KHRPRSDT T-1	11.000	6 0.9593 10.553
73702	KHPRSDT T-2	11.000	6	0.9650	10.615	73951	SHA.LND T-1	11.000	6 1.0058 11.063
73952	SHA LND T-2	11.000	6	0.9788	10.766	74001	TAUNSA T-1	11.000	6 0.9774 10.751
74002	TAUNSA T-2	11.000	6	0.9774	10.751	74003	T-3	11.000	6 1.0061 11.067
74111	T-1	11.000	6	0.9595	10.554	74121	T-1	11.000	6 1.0100 11.110

74131	T-1	11.000	6	0.9971	10.968	74141	T-1	11.000	6	1.0136	11.150
74161	T-1	11.000	6	1.0028	11.031	74401	CHOKMNDA T-1	11.000	6	1.0199	11.219
74402	CHOKMNDA T-2	11.000	6	1.0144	11.159	74502	CHAUBARA T-2	11.000	6	1.0106	11.117
74562	CHOKAZAM T1	11.000	6	1.0194	11.213	74563	T-3	11.000	6	0.9987	10.986
74591	KHANGARH T-1	11.000	6	0.9809	10.790	74592	KHANGARH T-2	11.000	6	0.9867	10.854
74602	D.G.KHAN T-2	11.000	6	0.9991	10.990	74603	D.G.KHAN T-3	11.000	6	1.0022	11.024
74604	D.G.KHAN T-4	11.000	6	0.9856	10.842	74641	T-1	11.000	6	0.9819	10.801
74651	KOTCHUTA T-1	11.000	6	0.9797	10.777	74652	KOTCHUTA T-2	11.000	6	0.9797	10.777
74653	KOTCHUTTA T3	11.000	6	0.9841	10.825	74691	CHOTI T-1	11.000	6	0.9883	10.871
74701	ROJHAN T-1	11.000	6	1.0008	11.009	74731	T-1	11.000	6	0.9848	10.832
75111	T-1	11.000	6	1.0075	11.082	75112	T-2	11.000	6	0.9995	10.995
75901	SKHISRWR T-1	11.000	6	0.9859	10.845	75902	SKISRWR T-2	11.000	6	0.9707	10.678
76111	T-1	11.000	6	1.0035	11.039	77112	T-2	11.000	6	1.0035	11.039
77811	YAZMAN-T-1	11.000	6	0.9837	10.821	77812	YAZMAN T-2	11.000	6	0.9837	10.821
77911	MAROOT T1	11.000	6	1.0099	11.109	77912	MAROOT T-2	11.000	6	0.9983	10.981
78311	FATEHPUR T-1	11.000	6	0.9726	10.698	78312	FATEPUR T-2	11.000	6	0.9901	10.891
78313	T-3	11.000	6	1.0203	11.223	78401	T1	11.000	6	0.9927	10.920
78921	T1	11.000	6	1.0209	11.230	79091	D.G.K.II T-1	11.000	6	1.0175	11.193
79092	D.G.K.II T-2	11.000	6	1.0039	11.043	79111	T-1	11.000	6	0.9607	10.568
79112	T-2	11.000	6	0.9607	10.568	79301	JAMPUR T-1	11.000	6	0.9728	10.701
79302	JAMPUR T-2	11.000	6	0.9960	10.956	79331	FAZALPUR T-1	11.000	6	1.0015	11.016
79332	FAZALPUR T-2	11.000	6	0.9921	10.913	79511	RAJANPUR T-1	11.000	6	1.0168	11.185
79512	RAJANPUR T-2	11.000	6	1.0168	11.185	79513	RAJANPUR T-3		6	0.9967	
79741	UCH.SHRF T-2	11.000	6	0.9952	10.947	79742	UCH.SHRF T-3	11.000	6	0.9742	10.716
79743	UCH.SHRF T-1	11.000	6	0.9999	10.999	79811	ALI PUR T-1	11.000	6	0.9349	10.284
79812	ALIPUR T-2	11.000	6	0.9540	10.494	79813	ALIPUR T-3	11.000	6	0.9561	10.517
79821	T-1	11.000	6	0.9380	10.318	79822	T-2	11.000	6	0.9380	10.318
79841	H.R. KAN T1	11.000	6	1.0256	11.281	79842	T-2	11.000	6	0.9943	10.937
79904	T-4	11.000	6	0.9881	10.869	79961	FRT MNRO T-1	11.000	6	1.0061	11.067
79962	T-2	11.000	6	1.0059	11.065	732512	LSM-132KV	132.00	6	1.0195	134.58

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-- NAME	--X BASKV	AREA	V(PU)	V(KV)	BUS#	X-- NAME	--X BASKV	AREA	V(PU)	V(KV)
401	T-3	11.000	6	0.9997	10.997	502	T-3	11.000	6	1.0030	11.033
529	PARCO	220.00	6	1.0386	228.50	5282	FATMA ENERGY	132.00	6	1.0200	134.64
5283	FAZAL CLOTH	132.00	6	1.0193	134.55	6030	QADIRABD	132.00	6	1.0261	135.44
6050	BNGAHYAT	132.00	6	1.0073	132.96	6070	YOUSFWLA	132.00	6	1.0189	134.49
6080	SAHIWALN	132.00	6	1.0107	133.41	6090	SAHIWAL-O	132.00	6	1.0103	133.37
6095	SAHIWAL III	132.00	6	1.0073	132.97	6100	NOORPUR	132.00	6	1.0030	132.39
6101	PAKPATTAN-2	132.00	6	0.9971	131.61	6120	PAKPATAN	132.00	6	0.9796	129.31
6130	HARAPPA	132.00	6	0.9939	131.20	6140	CHCHWTNI	132.00	6	0.9992	131.90
6149	KASOWAL132	132.00	6	0.9952	131.37	6150	SH.FAZAL	132.00	6	0.9759	128.82
6160	BUREWALA	132.00	6	0.9667	127.60	6162	BREWLA-O	132.00	6	0.9587	126.55
6163	GAGOO	132.00	6	0.9605	126.79	6169	VEHARI-N	132.00	6	1.0025	132.33
6170	VEHARI-O	132.00	6	0.9989	131.86	6175	LUDDEN	132.00	6	0.9823	129.67
6178	KARAMPUR	132.00	6	0.9701	128.05	6179	MACHIWAL	132.00	6	0.9788	129.20
6180	ARIFWALA	132.00	6	0.9698	128.01	6181	ARIFWALA-2	132.00	6	0.9696	127.99
6182	KAMIRWALA	132.00	6	0.9829	129.74	6190	BWL.NAGR	132.00	6	0.9713	128.21
6191	HOTA	132.00	6	0.9655	127.44	6200	QABULA	132.00	6	0.9598	126.70
6210	SAHUKA	132.00	6	0.9638	127.22	6220	HASILPUR	132.00	6	0.9842	129.91
6221	CHUNAWALA	132.00	6	0.9825	129.69	6230	CHISTIAN-O	132.00	6	0.9828	129.73
6231	CHSTAN-N	132.00	6	0.9883	130.46	6232	DHARWALA132	132.00	6	0.9744	128.62
6238	BUKHSHAN 132	132.00	6	0.9848	129.99	6239	CHISTIAN 132	132.00	6	0.9864	130.20
6250	MAN-KOT	132.00	6	1.0078	133.03	6410	HASILPUR	66.000	6	0.9842	64.956
6419	L.SOHANRA	132.00	6	1.0014	132.18	6420	BEST-GREEN	132.00	6	1.0193	134.55
6421	K.P.TOMI	132.00	6	0.9884	130.47	6422	APPOLO-SOLAR	132.00	6	1.0177	134.33
6462	NOORSAR	132.00	6	0.9804	129.41	6482	MNCHNBAD	132.00	6	0.9519	125.65
6488	BWL NAGAR-2	132.00	6	0.9745	128.63	6489	DONGA BNGA	132.00	6	0.9685	127.85
6491	MCLD.GNJ	132.00	6	0.9475	125.06	6501	HARONABD	132.00	6	0.9719	128.29
6512	FAQIRWLI	132.00	6	0.9706	128.13	6519	KHICHIWALA	132.00	6	0.9684	127.83
6521	FORTABAS	132.00	6	0.9742	128.59	6666	MULTAN-N	132.00	6	1.0246	135.25

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 SIDHNAI	132.00	6	0.9581	126.47
7010	KACHAKHU	132.00	6	0.9577	126.41	7020	KHANEWAL	132.00	6	0.9753	128.74
7029	FAUJI-K	132.00	6	1.0000	132.00	7030	KABIRWLA	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	B-BANGLA	132.00	6	0.9552	126.09	7050	JEHANIAN	132.00	6	0.9786	129.18
7060	CHAK.211	132.00	6	0.9721	128.32	7070	MAILSI	132.00	6	0.9851	130.03
7075	MUKHDM.R	132.00	6	0.9841	129.91	7100	P.GAIB-1	132.00	6	1.0197	134.60
7109	P.GAIB-2	132.00	6	0.9968	131.58	7110	BASTIMLK	132.00	6	1.0012	132.16
7111	KHANEWAL-2	132.00	6	0.9788	129.20	7115	MIRAN PUR	132.00	6	0.9948	131.31
7116	MKD JAHANIAN	132.00	6	0.9927	131.03	7120	LODHRAN	132.00	6	1.0161	134.13
7125	LAR	132.00	6	0.9928	131.05	7130	BU.JADID	132.00	6	1.0087	133.14
7138	BWPN-2	132.00	6	1.0036	132.47	7139	B.W.P-N	132.00	6	1.0403	137.32
7140	BHAWALPR	132.00	6	1.0261	135.45	7141	LODHRAN-2	132.00	6	1.0231	135.04
7145	BPUR CANTT	132.00	6	1.0322	136.25	7146	CREST-ENERGY	132.00	6	1.0215	134.84
7147	KARORPCA	132.00	6	0.9883	130.46	7148	QAD-SOL-I	132.00	6	1.0200	134.64
7149	DUNYAPUR	132.00	6	0.9754	128.75	7150	SAMASATA	132.00	6	0.9939	131.19
7153	KOT KHALIFA	132.00	6	0.9706	128.12	7159	MUB-PUR	132.00	6	0.9824	129.67
7160	LIAQATPR	132.00	6	0.9752	128.73	7170	AHMDPR.E	132.00	6	0.9774	129.01
7175	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
7211	VEHARI-2	132.00	6	1.0021	132.28	7212	DGK-3	132.00	6	1.0061	132.80
7213	NAGSHAH132	132.00	6	1.0174	134.29	7214	LOAQATPUR-2	132.00	6	0.9713	128.21
7215	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 P	132.00	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 HOSNG	132.00	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	KAPCO	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

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	6	1.0175	134.31	7416	DRAWAR MORE	132.00	6	1.0133	133.75
7417	PULL PANJU	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	6	1.0339	136.47
7442	T-AHTM	132.00	6	1.0392	137.17	7443	AHTM	132.00	6	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	6	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	KOTCHUTA	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	CHOTI 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	132.00	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	NAWAKOT	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	11.000	6	1.0139	11.153
60302	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	11.000	6	0.9884	10.873
60503	T-3	11.000	6	0.9899	10.889	60801	SAHIWALN T-1	11.000	6	0.9600	10.560
60802	SAHIWALN T-2	11.000	6	0.9600	10.560	60803	T-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	11.000	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
60952	SWL III T-2	11.000	6	0.9787	10.766	60953	T-3	11.000	6	1.0017	11.019
61001	NOORPUR T-1	11.000	6	0.9914	10.906	61002	NOORPUR T-2	11.000	6	0.9810	10.791
61004	T-3	11.000	6	0.9733	10.706	61011	T-1	11.000	6	0.9810	10.790
61012	T-2	11.000	6	0.9796	10.775	61201	PAKPATAN T-1	11.000	6	0.9614	10.575
61202	PAKPATAN T-2	11.000	6	0.9614	10.575	61203	PAKPATAN T-3	11.000	6	0.9554	10.509
61301	HARAPPA T-1	11.000	6	0.9481	10.429	61302	HARAPPA T-2	11.000	6	1.0136	11.150
61401	CHCHWTNI T-1		6	1.0061		61402	CHCHWTNI T-2	11.000	6	1.0193	11.212

61403	CHCHWTNI T-3	11.000	6	1.0008	11.009	61491	T-1	11.000	6 0.9829 10.812
61501	SH.FAZAL T-1	11.000	6	1.0151	11.166	61502	SH.FAZAL T-2	11.000	6 1.0174 11.191
61503	T-3	11.000	6	1.0294	11.323	61601	BUREWALA T-1	11.000	6 1.0419 11.460
61602	BUREWALA T-2	11.000	6	1.0124	11.136	61603	BUREWALA T-3	11.000	6 0.9770 10.747
61621	BREWLA-O T-1	11.000	6	0.9915	10.907	61622	BREWLA-O T-2	11.000	6 1.0065 11.071
61623	T-3	11.000	6	0.9964	10.960	61631	GAGOO T-1	11.000	6 1.0158 11.174
61632	GAGOO T-2	11.000	6	1.0174	11.191	61701	VEHARI-O T-1	11.000	6 0.9927 10.920
61702	VEHARI-O T-2	11.000	6	1.0247	11.271	61703	VEHARI-T-3	11.000	6 1.0004 11.005
61751	LUDDEN T-1	11.000	6	0.9887	10.876	61752	LUDDEN T-2	11.000	6 1.0464 11.510
61753	T-3	11.000	6	0.9776	10.754	61781	KARAMPUR T-1	11.000	6 0.9856 10.841
61782	KARAMPUR T-2	11.000	6	1.0366	11.402	61791	T1	11.000	6 0.9756 10.732
61792	T2	11.000	6	0.9756	10.732	61801	ARIFWALA T-3	11.000	6 1.0277 11.305
61802	ARIFWALA T-2	11.000	6	1.0277	11.305	61803	ARIFWALA T-1	11.000	6 0.9863 10.849
61811	T-1	11.000	6	1.0184	11.203	61812	T-2	11.000	6 1.0184 11.203
61821	KAMIRW T-1	11.000	6	0.9734	10.707	61822	KAMIR W T-2	11.000	6 0.9734 10.707
61901	BWL.NAGR T-1	11.000	6	0.9740	10.714	61902	T-3	11.000	6 1.0109 11.120
61903	BWL.NAGR T-3	11.000	6	0.9740	10.714	61911	HOTA T-1	11.000	6 0.9996 10.995
61912	HOTA T-2	11.000	6	1.0297	11.326	61913	T-3	11.000	6 0.9602 10.563
62001	QABULA T-1	11.000	6	0.9990	10.989	62002	QABULA T-2	11.000	6 1.0092 11.102
62003	QABULA T-3	11.000	6	0.9923	10.916	62101	SAHUKA T-1	11.000	6 0.9954 10.949
62102	SAHUKA T-2	11.000	6	1.0164	11.180	62202	HASILPUR T-2	11.000	6 0.9977 10.975
62203	HASILPUR T-3	11.000	6	1.0011	11.012	62204	T-4	11.000	6 0.9795 10.775
62211	CHUNAW T-1	11.000	6	1.0025	11.028	62301	CHISTIAN T-1	11.000	6 0.9705 10.675
62302	CHISTIAN T-2	11.000	6	0.9989	10.988	62303	CHISTIAO T3	11.000	6 1.0028 11.031
62321	DHRANWALA-T1	11.000	6	0.9876	10.864	62322	DHRANWALA-T2	11.000	6 0.9876 10.864
62381	T-1	11.000	6	0.9706	10.676	62391	T-1	11.000	6 0.9800 10.780
62392	T-2	11.000	6	0.9800	10.780	62501	MAN-KOT T-1	11.000	6 0.9977 10.975
62502	MAN-KOT T-2	11.000	6	0.9977	10.975	64191	L.SOHAN T-1	11.000	6 1.0039 11.042
64211	K.P.TOMI T-1	11.000	6	0.9848	10.833	64212	K.P.TOMI T-2	11.000	6 0.9824 10.807
64621	NOORSAR T-1	11.000	6	0.9831	10.814	64622	NOORSAR T-2	11.000	6 1.0202 11.222
64821	MNCHNBAD T1	11.000	6	0.9886	10.874	64822	T-2	11.000	6 0.9908 10.899
64881	T-1	11.000	6	0.9789	10.768	64882	T-2	11.000	6 1.0054 11.060
64891	T-1	11.000	6	1.0058	11.064	64892	T-2	11.000	6 1.0058 11.064
64911	MCLD.GNJ T1	11.000	6	0.9983	10.982	64912	MCLD GNG T-2		6 0.9922
65012	HARONABD T-2	11.000	6	0.9846	10.830	65013	HARONABD T-1	11.000	6 0.9846 10.830
65014	HARONABD T-3	11.000	6	0.9839	10.823	65121	FAQIRWLI-T1	11.000	6 1.0129 11.142
65122	FAQIRWLI-T2	11.000	6	1.0129	11.142	65191	T-1	11.000	6 1.0101 11.111
65192	T-2	11.000	6	1.0101	11.111	65211	FORTABAS-T1		6 1.0071
65212	FORTABAST-2	11.000	6	1.0027	11.030	70001	MIANCHNU T1	11.000	6 1.0401 11.441
70002	MIANCHNU T-2	11.000	6	1.0203	11.224	70003	MIANCHNU T-3	11.000	6 1.0096 11.106
70011	CHAK-83-T1	11.000	6	1.0080	11.088	70012	CHAK-83-T2	11.000	6 1.0080 11.088
70061	H SIDNAI T-1	11.000	6	1.0070	11.077	70062	H SIDNAI T-2	11.000	6 0.9791 10.771
70101	KACHAKHU T-1	11.000	6	0.9745	10.720	70102	KACHAKHU T-2	11.000	6 0.9745 10.720

70103	KACHAKHU T-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	6	0.9692	10.662	70401	GARHMORE T-111.000	6	0.9926	10.918
70402	GARHMORE T-211.000	6	1.0061	11.067	70421	B-BANGLA T-111.000	6	0.9915	10.907
70501	JEHANIAN T-111.000	6	1.0136	11.149	70502	JEHANIAN T-211.000	6	1.0292	11.321
70503	JEHANIAN T-311.000	6	0.9972	10.970	70601	CHAK.211 T-111.000	6	1.0226	11.249
70602	CHAK 211 T-211.000	6	1.0201	11.221	70603	CHAK 211 T-311.000	6	1.0361	11.397
70701	MAILSI T-1 11.000	6	1.0485	11.533	70702	MAILSI T-2 11.000	6	1.0485	11.533
70703	MAILSI T-3 11.000	6	1.0443	11.487	70751	MUKHDM.R T-111.000	6	1.0135	11.149
70752	MUKHDM.R T-211.000	6	0.9924	10.917	70753	T-3 11.000	6	0.9766	10.743
71101	BASTIMLK T-111.000	6	1.0326	11.358	71102	BASTIMLK T-211.000	6	1.0305	11.336
71103	BASTIMLK T-311.000	6	1.0305	11.336	71111	T-1 11.000	6	0.9819	10.801
71112	T-2 11.000	6	0.9777	10.754	71151	MIRAN P T-1 11.000	6	1.0278	11.306
71152	MIRAN P T-2 11.000	6	1.0278	11.306	71161	MK JANIAN T111.000	6	0.9882	10.870
71162	T-2 11.000	6	0.9882	10.870	71201	LODHRAN T-1 11.000	6	1.0459	11.505
71202	LODHRAN T-2 11.000	6	1.0459	11.505	71203	LODHRAN T-3 11.000	6	1.0514	11.566
71251	LART-1 11.000	6	1.0140	11.154	71252	LAR T-2 11.000	6	1.0140	11.154
71253	T-3 11.000	6	0.9885	10.874	71301	BU.JADID T-111.000	6	1.0221	11.243
71302	BU.JADID T-211.000	6	0.9861	10.847	71401	BHAWALPR T-111.000	6	1.0473	11.520
71402	BHAWALPR T-211.000	6	1.0459	11.505	71403	BHAWALPR T-311.000	6	1.0332	11.365
71405	BWP 66.000	6	1.0261	67.723	71411	T-1 11.000	6	1.0109	11.120
71412	T-2 11.000	6	1.0109	11.120	71451	BP CANTT T-111.000	6	1.0231	11.255
71452	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	T-1 11.000	6	0.9592	10.551
71532	T-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	T-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	MWQRSHIA T-111.000	6	0.9866	10.852	72102	MWQRSHIA T2 11.000	6	1.0616	11.678
72103	T-3 11.000	6	1.0045	11.049	72111	T-1 11.000	6	1.0057	11.063
72112	T-2 11.000	6	1.0014	11.016	72121	T-1 11.000	6	1.0024	11.026
72122	T-2 11.000	6	1.0024	11.026	72141	T-1 11.000	6	0.9600	10.560
72142	T-2 11.000	6	0.9600	10.560	72151	T-1 11.000	6	1.0086	11.094
72152	T-2 11.000	6	1.0093	11.102	72201	R.Y.KHAN T-111.000	6	1.0083	11.091

72202	R.Y.KHAN T-2	11.000	6	0.9716	10.688	72203	R.Y.KHAN T-3	11.000	6 1.0135 11.149
72204	T-4	11.000	6	0.9951	10.946	72251	R.Y.KHN2 T-1	11.000	6 0.9753 10.728
72252	R.Y.KHN2 T-2	11.000	6	0.9635	10.598	72253	T-3	11.000	6 1.0066 11.073
72291	T-1	11.000	6	0.9786	10.764	72292	T-2	11.000	6 0.9786 10.764
72301	SADIQABD T-1	11.000	6	1.0126	11.138	72302	SADIQABD T-2	11.000	6 1.0126 11.138
72303	SADIQABD T-3	11.000	6	1.0271	11.298	72304	LALPIR	11.000	6 1.0228 11.251
72311	WALANA T-1	11.000	6	0.9980	10.978	72312	WALANA T-2	11.000	6 1.0036 11.040
72351	NAWAZ T-1	11.000	6	0.9916	10.908	72352	NAWAZAB T-2	11.000	6 1.0120 11.132
72353	T-3	11.000	6	1.0151	11.166	72401	J.D.WALI T-1	11.000	6 0.9712 10.684
72402	JDWALI T-2	11.000	6	1.0022	11.024	72403	J D WALI T-3	11.000	6 1.0062 11.068
72501	MN.KH.RD T-1	11.000	6	1.0112	11.124	72502	MN.KH.RD T-2	11.000	6 1.0063 11.070
72503	MN.KH.RD T-3	11.000	6	1.0112	11.124	72551	WAP TO T-1	11.000	6 1.0342 11.376
72552	WAPDA TO T-2	11.000	6	1.0073	11.081	72554	T-3	11.000	6 1.0006 11.006
72601	MN.BS.RD T-1	11.000	6	1.0356	11.392	72602	MN.BS.RD T-2	11.000	6 0.9950 10.945
72603	MN.BS.RD T-3	11.000	6	1.0356	11.392	72604	T-4	11.000	6 1.0001 11.001
72611	PNJB HSG T-1	11.000	6	1.0134	11.148	72612	PNJB HSG T-2	11.000	6 1.0134 11.148
72621	BUCH VLS T-1	11.000	6	1.0284	11.312	72651	Q BAGH T-1	11.000	6 0.9904 10.894
72652	Q BAGH T-2	11.000	6	0.9966	10.963	72691	T-1	11.000	6 0.9908 10.898
72692	T-2	11.000	6	0.9908	10.898	72701	MLN-IND T-1	11.000	6 1.0484 11.532
72702	MLN-IND T-2	11.000	6	1.0442	11.486	72703	MLN-IND T-3	11.000	6 1.0396 11.436
72731	SURJ MNI T-1	11.000	6	1.0399	11.439	72732	SURJ MNI T-2	11.000	6 1.0268 11.295
72801	MN.VR.RD T-1	11.000	6	1.0360	11.396	72802	MN.VR.RD T-2	11.000	6 1.0652 11.717
72803	MN.VR.RD T-3	11.000	6	1.0424	11.466	72804	T-4	11.000	6 1.0108 11.119
72851	QASIMPUR T-1	11.000	6	1.0491	11.540	72852	QASIMPUR T-2	11.000	6 1.0402 11.443
72853	QASIMPUR T-3	11.000	6	1.0597	11.657	72854	T-4	11.000	6 1.0079 11.087
72871	M.J RD T-1	11.000	6	1.0314	11.346	72872	M.J.RD T-2	11.000	6 1.0522 11.575
72881	SHUJABAD T-1	11.000	6	1.0338	11.372	72882	SHUJABAD T-2	11.000	6 1.0266 11.293
72883	SHUJABAD T-3	11.000	6	1.0375	11.412	72891	J.P.W T-1	11.000	6 1.0420 11.462
72892	J.P.W T-2	11.000	6	1.0413	11.454	72893	J.P.W T-3	11.000	6 1.0476 11.523
72901	MESCO T-1	11.000	6	1.0199	11.218	72902	MESCO T-2	11.000	6 1.0687 11.755
72903	MESCO T-3	11.000	6	1.0393	11.432	73111	T-1	11.000	6 1.0119 11.131
73112	T-2	11.000	6	1.0119	11.131	73201	GUJRAT.S T1	11.000	6 1.0224 11.246
73202	GUJRAT.S T3	11.000	6	1.0279	11.307	73203	GUJRAT.S T2	11.000	6 1.0216 11.237
73251	LAYYAH T-1	11.000	6	1.0112	11.124	73252	LAYYAH T-2	11.000	6 1.0112 11.124
73253	LAYYAH T-3	11.000	6	1.0150	11.165	73281	KBGASHER T-1	11.000	6 1.0115 11.126
73282	KBGASHER T-2	11.000	6	1.0129	11.142	73301	MZFRGARH T-1	11.000	6 0.9778 10.756
73302	MZFRGARH T-2	11.000	6	0.9769	10.745	73303	MZFRGARH T-3	11.000	6 0.9778 10.756
73312	KOTADU-O T-2	11.000	6	1.0370	11.407	73313	KOTADU-O T-3	11.000	6 1.0299 11.329
73314	KOTADU-O T-4	11.000	6	1.0255	11.281	73321	N.A.WALI T-2	11.000	6 1.0310 11.341
73322	N.A.WALI T-1	11.000	6	1.0343	11.377	73323	T-3	11.000	6 1.0225 11.248
73331	S S DIN T1	11.000	6	1.0164	11.180	73332	S S DIN T2	11.000	6 0.9946 10.940
73351	KOTSULTAN-T1	11.000	6	1.0151	11.166	73352	KOTSULTAN-T2	11.000	6 1.0280 11.308
73361	KAROR L.E-T1	11.000	6	0.9782	10.760	73362	KAROR L.E-T2		6 0.9782

73401	MEHRKHAS T-1	11.000	6	0.9896	10.886	73402	MEHRKHAS T-2	11.000	6	1.0028	11.031
73403	MEHRKHAS T-3		6	1.0039		73501	DMR WALA T-1	11.000	6	0.9646	10.610
73502	DMR WALA T-2	11.000	6	0.9472	10.419	73601	JATOIJNB T-1	11.000	6	0.9555	10.510
73602	JATOIJNB T-2	11.000	6	0.9410	10.351	73603	T-3	11.000	6	0.9468	10.415
73701	KHRPRSDT T-1	11.000	6	0.9185	10.103	73702	KHPRSDT T-2	11.000	6	0.9254	10.180
73951	SHA.LND T-1	11.000	6	1.0053	11.059	73952	SHA LND T-2	11.000	6	0.9783	10.762
74001	TAUNSA T-1	11.000	6	0.9768	10.745	74002	TAUNSA T-2	11.000	6	0.9768	10.745
74003	T-3	11.000	6	1.0055	11.061	74111	T-1	11.000	6	0.9623	10.585
74121	T-1	11.000	6	1.0154	11.170	74131	T-1	11.000	6	1.0067	11.073
74141	T-1	11.000	6	1.0152	11.168	74161	T-1	11.000	6	1.0109	11.120
74171	T-1	11.000	6	0.9720	10.692	74401	CHOKMNDA T-1	11.000	6	1.0199	11.219
74402	CHOKMNDA T-2	11.000	6	1.0144	11.159	74502	CHAUBARA T-2	11.000	6	1.0106	11.117
74562	CHOKAZAM T1	11.000	6	1.0194	11.213	74563	T-3	11.000	6	0.9987	10.986
74591	KHANGARH T-1	11.000	6	0.9925	10.917	74592	KHANGARH T-2	11.000	6	0.9980	10.978
74602	D.G.KHAN T-2	11.000	6	1.0159	11.175	74603	D.G.KHAN T-3	11.000	6	1.0187	11.205
74604	D.G.KHAN T-4	11.000	6	1.0066	11.073	74641	T-1	11.000	6	0.9879	10.867
74651	KOTCHUTA T-1	11.000	6	0.9866	10.852	74652	KOTCHUTA T-2	11.000	6	0.9866	10.852
74653	KOTCHUTTA T	11.000	6	0.9910	10.901	74691	CHOTI T-1	11.000	6	0.9937	10.931
74701	ROJHAN T-1	11.000	6	1.0013	11.014	74731	T-1	11.000	6	0.9907	10.897
75111	T-1	11.000	6	1.0075	11.083	75112	T-2	11.000	6	0.9996	10.996
75901	SKHISRWR T-1	11.000	6	0.9903	10.893	75902	SKISRWR T-2	11.000	6	0.9751	10.726
76111	T-1	11.000	6	1.0088	11.097	77112	T-2	11.000	6	1.0088	11.097
77811	YAZMAN-T-1	11.000	6	0.9918	10.909	77812	YAZMAN T-2	11.000	6	0.9918	10.909
77911	MAROOT T1	11.000	6	1.0427	11.470	77912	MAROOT T-2	11.000	6	1.0209	11.230
77913	T-3	11.000	6	0.9921	10.913	78311	FATEHPUR T-1	11.000	6	0.9726	10.698
78312	FATEPUR T-2	11.000	6	0.9901	10.891	78313	T-3	11.000	6	1.0203	11.223
78401	T1	11.000	6	0.9927	10.920	78921	T1	11.000	6	1.0209	11.230
79091	D.G.K.II T-1	11.000	6	1.0273	11.300	79092	D.G.K.II T-2	11.000	6	1.0329	11.362
79111	T-1	11.000	6	1.0316	11.347	79112	T-2	11.000	6	0.9786	10.765
79301	JAMPUR T-1	11.000	6	0.9797	10.777	79302	JAMPUR T-2	11.000	6	1.0028	11.031
79331	FAZALPUR T-1	11.000	6	1.0055	11.060	79332	FAZALPUR T-2	11.000	6	0.9960	10.956
79511	RAJANPUR T-1	11.000	6	1.0136	11.150	79512	RAJANPUR T-2	11.000	6	1.0136	11.150
79513	RAJANPUR T-3		6	1.0305		79741	UCH.SHRF T-2	11.000	6	0.9987	10.985
79742	UCH.SHRF T-3	11.000	6	0.9776	10.753	79743	UCH.SHRF T-1	11.000	6	1.0035	11.038
79811	ALI PUR T-1	11.000	6	0.8609	9.470	79812	ALIPUR T-2	11.000	6	0.8816	9.697
79813	ALIPUR T-3	11.000	6	0.9142	10.056	79821	T-1	11.000	6	0.9416	10.358
79822	T-2	11.000	6	0.9416	10.358	79841	H.R. KAN T1	11.000	6	1.0337	11.371
79842	T-2	11.000	6	1.0023	11.025	79904	T-4	11.000	6	0.9984	10.982
79961	FRT MNRO T-1	11.000	6	1.0104	11.114	79962	T-2	11.000	6	1.0101	11.112
732512	LSM-132KV	132.00	6	1.0195	134.58						