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No. NEPRA/R/ADG(Trf)/TRF-571/QESCO-2021/8675-77

June 2, 2022

Subject: **DETERMINATION OF THE AUTHORITY IN THE MATTER OF PETITION FILED BY QUETTA ELECTRIC SUPPLY COMPANY LTD. (QESCO) FOR DETERMINATION OF SUPPLY TARIFF UNDER MYT REGIME FOR THE FY 2020-21 TO FY 2024-25 [CASE # NEPRA/TRF-571/QESCO-2021]**

Dear Sir,

Please find enclosed herewith subject Determination of the Authority along with Annex-I, I-A, II, III, IV, V & A and additional note of Engr. Rafique Ahmed Shaikh, Member NEPRA (63 Pages) in Case No. NEPRA/TRF-571/QESCO-2021.

2. The Determination is being intimated to the Federal Government for the purpose of notification in the official Gazette pursuant to Section 31(7) of the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 within 30 days from the intimation of this Decision. In the event the Federal Government fails to notify the subject tariff Decision or refer the matter to the Authority for reconsideration, within the time period specified in Section 31(7), then the Authority shall notify the same in the official Gazette pursuant to Section 31(7) of NEPRA Act.

Enclosure: As above

(Syed Safeer Hussain)

Secretary
Ministry of Energy (Power Division)
'A' Block, Pak Secretariat
Islamabad

CC:

1. Secretary, Cabinet Division, Cabinet Secretariat, Islamabad.
2. Secretary, Ministry of Finance, 'Q' Block, Pak Secretariat, Islamabad.



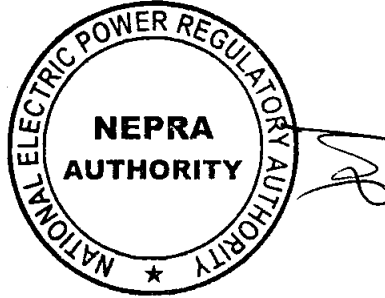
**National Electric Power Regulatory Authority
(NEPRA)**

PETITION NO: NEPRA/TRF-571/QESCO-2021

**DETERMINATION OF SUPPLY TARIFF PETITION
FOR
QUETTA ELECTRIC SUPPLY COMPANY LIMITED (QESCO)
FOR THE FY 2020-21 – FY 2024-25
UNDER
NEPRA TARIFF (STANDARDS AND PROCEDURE) RULES - 1998**

Islamabad

, 2022

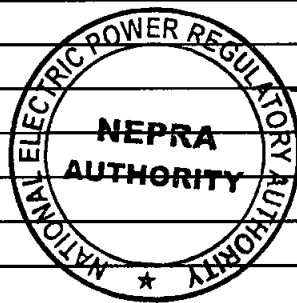


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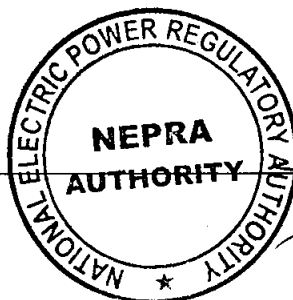
Abbreviations

CpGenCap	The summation of the capacity cost in respect of all CpGencos for a billing period minus the amount of liquidated damages received during the months
ADB	Asian Development Bank
AMI	Advance Metering Infrastructure
AMR	Automatic Meter Reading
BoD	Board of Director
BTS	Base Transceiver Station
CAPM	Capital Asset Pricing Model
CDP	Common Delivery Point
COSS	Cost of Service Study
CPPA (G)	Central Power Purchasing Agency Guarantee Limited
CTBCM	Competitive Trading Bilateral Contract Market
CWIP	Closing Work in Progress
DIIP	Distribution Company Integrated Investment Plan
DISCO	Distribution Company
DM	Distribution Margin
DOP	Distribution of Power
ELR	Energy Loss Reduction
ERC	Energy Regulatory Commission
ERP	Enterprise resource planning
FCA	Fuel Charges Adjustment
FY	Financial Year
GIS	Geographical Information System
GOP	Government of Pakistan
GWh	Giga Watt Hours
HHU	Hand Held Unit
HT/LT	High Tension/Low Tension
HSD	High Speed Diesel
IGTDP	Integrated Generation Transmission and Distribution Plan
IESCO	Islamabad Electric Supply Company Limited
KIBOR	Karachi Inter Bank Offer Rates
KSE	Karachi Stock Exchange
KV	Kilo Volt
kW	Kilo Watt
kWh	Kilo Watt Hour
LPC	Late Payment Charges
MDI	Maximum Demand Indicator
MMBTU	One million British Thermal Units
MoWP	Ministry of Water and Power
MVA	Mega Volt Amp





MW	Mega Watt
NEPRA	National Electric Power Regulatory Authority
NOC	Network Operation Centre
NTDC	National Transmission & Despatch Company
O&M	Operation and Maintenance
OGRA	Oil and Gas Regulatory Authority
PEPCO	Pakistan Electric Power Company
QESCO	Quetta Electric Supply Company Limited
PDEIP	Power Distribution Enhancement Investment Program
PDP	Power Distribution Program
PPA	Power Purchase Agreement
PPAA	Power Procurement Agency Agreement
PPP	Power Purchase Price
PYA	Prior Year Adjustment
R&M	Repair and Maintenance
RAB	Regulatory Asset Base
RE	Rural Electrification
RFO	Residual Fuel Oil
RLNG	Re-gasified Liquefied Natural Gas
RoE	Return on Equity
RORB	Return on Rate Base
ROR	Rate of Return
SBP	State Bank of Pakistan
SOT	Schedule of Tariff
STG	Secondary Transmission Grid
SYT	Single Year Tariff
T&D	Transmission and Distribution
TFC	Term Finance Certificate
TOU	Time of Use
TOR	Term of Reference
TPM	Transfer Price Mechanism
USCF	The fixed charge part of the Use of System Charges in Rs./kW/Month
UOSC	Use of System Charges
WACC	Weighted average cost of capital
WAPDA	Water and Power Development Authority
XWDISCO	Ex-WAPDA Distribution Company



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**DETERMINATION OF THE AUTHORITY IN THE MATTER OF PETITION FILED BY
QUETTA ELECTRIC SUPPLY COMPANY LIMITED (QESCO) FOR DETERMINATION OF
SUPPLY TARIFF UNDER MYT REGIME FOR THE FY 2020-21 TO FY 2024-25**

CASE NO. NEPRA/TRF-571/QESCO-2021

PETITIONER

Quetta Electric Supply Company Limited (QESCO), QESCO Headquarter, Zarghoon Road,
Quetta.

INTERVENER

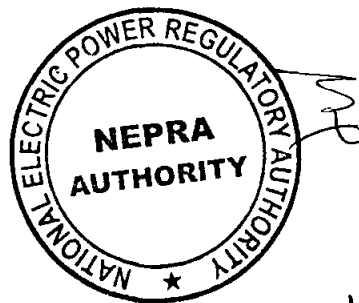
M/s PTCL
M/S Telenor
M/S Pak Telecom Mobile Ltd.

COMMENTATOR

M/s Deodar PMCL (Jazz)

REPRESENTATION

Chief Executive Officer and along-with its Technical and Financial team



Math

1. Background

- 1.1. The amendments in the Regulation of Generation, Transmission and Distribution of Electric Power Act, 1997 was passed by the National Assembly on 15th March, 2018, which was published in the official Gazette on 30th April 2018 (the "Amendment Act"), resulting in restructuring of the energy sector. One of the fundamental changes as per the amendment Act is the introduction of a competitive retail energy sector, wherein, supply function has been segregated from the distribution license.
- 1.2. As per the amended Act, function of sale of electric power traditionally being performed by the Distribution Licensees has been amended under Section 21(2)(a), whereby 'sale' of electric power has been removed from the scope of 'Distribution Licensee' and transferred to 'Supply Licensee'.
- 1.3. The newly introduced Section 23E of the Act, provides NEPRA with the powers to grant Electric Power Supply License for the supply of electric power. Section 23E(1), however, provides that the holder of a distribution license on the date of coming into effect of the Amendment Act, shall be deemed to hold a license for supply of electric power under this section for a period of five years from such date. Thus, all existing Distribution Licensees have been deemed to have Power Supplier Licenses, to ensure distribution licensees earlier performing both the sale and wire functions, can continue to do so. Section 23E, further states that the eligibility criteria for grant of license to supply electric power to be prescribed by the Federal Government, and shall include, provision with respect to a supplier of the last resort, as the case may be.
- 1.4. As per Section 23F (2)(b), the Supplier possess the right to make sales of electric power to consumers within their specified territories on a non-discriminatory basis to all the consumers who meet the eligibility criteria laid down by the Authority.
- 1.5. In view thereof, Quetta Electric Supply Company Limited (QESCO), hereinafter called "the Petitioner", being a Distribution as well as deemed Supplier filed separate tariff petitions for the determination of its Distribution and Supply of Electric Power Tariff under the MYT Regime for a period of five years i.e. from FY 2020-21 to FY 2024-25, in terms of Rule 3 (1) of Tariff Standards & Procedure Rules-1998 (hereinafter referred as "Rules").
- 1.6. The Petitioner, inter alia, requested the following Distribution Margin in its Petition for the five years MYT period;

Description	Unit	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Unit Purchased	GWh	6,629	7,024	7,196	8,634	9,370
Units to be Sold	GWh	4,775	5,093	5,253	6,345	6,934
Power Purchase Cost	Mln Rs.	80,792	108,162	122,510	153,150	177,578
O&M	Mln Rs.	1,764	2,002	2,193	2,349	2,492
Depreciation	Mln Rs.	14	38	43	47	53
Return on Asset Base (RoRB)	Mln Rs.	7	19	16	12	9
Provision for Bad Debts	Mln Rs.					
Other Income	Mln Rs.	(74)	(76)	(80)	(83)	(88)
PYA & Turnover Tax etc.	Mln Rs.	2,393				
Total Supply cost		4,104	1,983	2,172	2,325	2,466
Distribution of Power Cost		16,007	17,391	21,681	24,752	26,749
Total Revenue Requirement	Mln Rs.	100,903	127,536	146,363	180,227	206,793
Net Average Sale Price	Rs./kWh	21.13	25.04	27.86	28.40	29.82

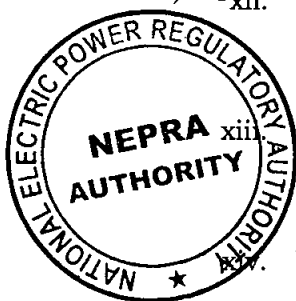


2. Proceedings

- 2.1. In terms of rule 4 of the Tariff standard and Procedure Rules, 1998 (hereinafter referred to as "Rules"), the petition was admitted by the Authority. However, considering the fact that the distribution license of the Petitioner is valid only till April 2022, the Authority decided to deliberate the term of the MYT period as a separate issue during the hearing. Since the impact of any such adjustments has to be made part of the consumer end tariff, therefore, the Authority, in order to provide an opportunity of hearing to all the concerned and meet the ends of natural justice, decided to conduct a hearing in the matter.
- 2.2. Hearing in the matter was scheduled on November 10, 2021, for which notice of admission / hearing along-with the title and brief description of the petition was published in newspapers on October 27, 2021 and also uploaded on NEPRA website; Individual notices were also issued to stakeholders/ interested parties.

3. Issues of Hearing

- 3.1. For the purpose of hearing, and based on the pleadings, following issues were framed to be considered during the hearing and for presenting written as well as oral evidence and arguments;
- i. Whether the request of Petitioner to allow MYT for a period of five years is justified?
 - ii. Whether the Petitioner has complied with the direction of the Authority given in the tariff determination of FY 2019-20?
 - iii. Whether the projected energy (GWh) and projected power purchase cost is reasonable?
 - iv. Whether the requested O&M cost are justified?
 - v. Whether the projected Return on Regulatory Asset base (RORB), Depreciation & Other Income is justified?
 - vi. Whether the requested Financial Charges are justified?
 - vii. Whether the requested wheeling charges are justified?
 - viii. Whether the requested provision for bad debt is justified?
 - ix. What should be the adjustment mechanisms during the MYT? Whether there should any efficiency factor (X Factor)?
 - x. Whether the requested investment plan is justified?
 - xi. What are the basis used by the Petitioner for bifurcation of its costs into supply and distribution segments?
 - xii. Whether the existing Tariff Terms and Conditions needs to be modified, especially with reference to the request of Telecom companies to charge "B Industrial Supply" Category tariff instead of "A-2 Commercial" category tariff?
 - xiii. Whether the existing fixed charges applicable to different consumer categories needs to be revised and requires any changes in mechanism for charging of such charges based on Actual MDI or Sanction Load or otherwise?
 - xiv. Whether there should be any amendment in Terms and Conditions of Tariff (For Supply of Electric Power to Consumers by Supply Licensees) keeping in view the



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changes in Consumer Service Manual?

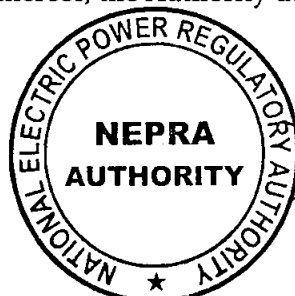
- xv. Whether there should any Fixed Charges on consumer having net metering facility on which currently no fixed charges are applicable?
- xvi. Whether the concerns raised by the intervener/ commentator if any are justified?
- xvii. Any other issue that may come up during or after the hearing?

4. Filing Of Objections/ Comments

- 4.1. Comments/replies and filing of Intervention Request (IR), if any, were desired from the interested person/ party within 7 days of the publication of notice of admission in terms of Rule 6, 7 & 8 of the Rules. In response thereof, IR has been filed by M/s PTCL, M/s Pak Telecom Mobile, M/s Telenor and M/s CM Pak (Zong). Written comments also received from M/s Deodar PMCL (Jazz). A brief of the concerns raised in the IR/ comments is as under;
- 4.2. Telecom Sector including Cellular Operators (CMOs) has been declared as an Industry vide Ministry of Industries notification dated 20.04.2004, therefore, for the purpose of charging of electricity, industrial tariff may be applied to CMOs instead of currently applicable Commercial tariffs.
- 4.3. The Authority during the tariff determinations of the Petitioner GEPCO for the FY 2019-20, on the request of Telenor regarding charging of Industrial tariff from Telecom Operators decided as under;

"The Authority observed that the issue highlighted by the commentator M/s Telenor Pakistan regarding applicability of Industrial tariff to Cellular Mobile Operator (CMOs) pertains to all the DISCOs including K-Electric as CMOs are operating all over Pakistan, therefore, the issue requires deliberations involving all stakeholders i.e. DISCOs, CMOs, Ministry of Energy, MoT etc. The Authority noted that proceedings regarding Tariff petitions filed by all XWDISCOs for the FY 2018-19 and FY 2019-20, except GEPCO, have already been completed, therefore, the Authority has decided to consider the request of M/s Telenor as a separate issue during the proceedings for the upcoming tariff Petitions of DISCOs for the FY 2020-21 & onward".

- 4.4. In view thereof, in the instant tariff Petition, the subject matter has been discussed as a separate issue.
- 5. During the hearing, the Petitioner was represented by its Chief Executive Officer along-with its technical and financial teams; On the basis of pleadings, evidence/record produced and arguments raised during the hearing, issue-wise findings are given as under;
- 6. Whether the request of Petitioner to allow MYT for a period of five years is justified, considering the fact that distribution license is valid till April 2022?
- 6.1. The Authority noted that the Petitioner has filed its MYT Petition for a period of five years i.e. FY 2020-21 to FY 2024-25, however, the Distribution license of the Petitioner is valid only till 29.04.2022. In view thereof, the Authority decided to deliberate the matter during the hearing.



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- 6.2. The Petitioner during the hearing submitted that QESCO is considered as a going concern, having natural monopoly over distribution system in its service jurisdiction and will continue its operations in the future. The company is in process of filing a request for renewal of its license within due course of time. The determination of Multiyear tariff for a period of five years is justified in anticipation of renewal of distribution license by the Authority after April, 2022.
- 6.3. The Authority, considering the fact that the Petitioner has already filed request for renewal of its distribution license, which is under process with the Authority, and the fact that DISCOs are going concern, has decided to consider the distribution tariff request of the Petition under the MYT tariff regime. However, the Authority is also aware of the fact that under Section 21 (2) (a) of the NEPRA Act, the word "exclusive" has been omitted, meaning thereby that the Petitioner does not possess the exclusive right for provision of distribution services in its specified territory. Thus, the grant of distribution tariff under the MYT regime shall in no way be construed as a basis for claiming any exclusivity in the licensed territory of the Petitioner. The terms & conditions, given by the Authority, in the new Distribution license of the Petitioner would be applicable during the MYT control period and the MYT would be governed by the terms & conditions of the new license.

7. Directions given to the Petitioner in its previous Tariff determination

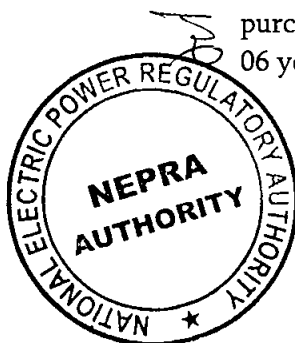
- 7.1. The Authority gave certain directions to the Petitioner in its tariff determination for the FY 2019-20. The same have been discussed in detail in the MYT Distribution of Power Tariff Determination of the Petitioner, therefore, need not to be discussed here again. The Authority also understands that periodic monitoring of the directions given by the Authority is absolutely necessary in order to analyze the Petitioner's performance, therefore, the Authority has decided to have a half yearly review of the given directions, instead of discussing the same only during the tariff proceedings. Further, the directions given by the Authority in the MYT Distribution tariff determination of the Petitioner, have been reproduced in the instant decision for compliance by the Petitioner.

8. Whether the projected energy (GWh) and projected power purchase cost is reasonable?

- 8.1. The Petitioner during the hearing submitted the following projected Energy (GWh) purchase and Power Purchase Cost, based on average growth rate of sanctioned load for last 06 years i.e. 4.29%.

Description	Units	18-19	19-20	20-21	21-22	22-23	23-24	24-25
Units Purchased	MkWh	6,264	6,609	6,629	7,024	7,196	8,634	9,370
PPP Rate	Rs/kWh	12.14	13.43	12.19	15.4	17.03	17.74	18.95
PPP	Rs Million	74,926	88,602	80,792	108,162	122,510	153,150	177,578
	%	23.71%	26.74%	28.00%	27.50%	27.00%	26.50%	26.00%
T&D Losses	MkWh	1,485	1,767	1,854	1,932	1,943	2,288	2,436
Adjusted-PPP	Rs/kWh	15.68	18.3	16.93	21.24	23.32	24.13	25.61

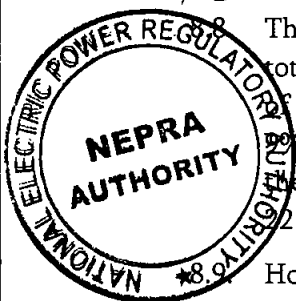
- 8.2. The Authority, observed that for the FY 2021-22, variations in the Power Purchase Price (PPP) for the 1st quarter of the FY 2021-22 i.e. Jul. to Sep. 2020 have already been allowed to the Petitioner vide the Authority's decision dated 09.05.2022 and for the 2nd quarter of FY 2021-22, the Petitioner has already filed its PPP adjustment requests with the Authority, which are at an advance stage of the proceedings and would be processed as per the prescribed mechanism. Therefore, for the purpose of instant Petition, the PPP of the Petitioner for the FY 2021-22 shall be the PPP that remained notified during the FY 2021-



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- 22, and on which the Petitioner has been / would be allowed quarterly adjustments, thus any reassessment of PPP for the FY 2021-22 is not required.
- 8.3. Although, variations in the PPP of the Petitioner are being actualized through quarterly adjustment mechanism, however, the existing PPP references, against which the variations are being allowed, were determined by the Authority keeping in view the FY 2020-21. The Authority understands that these references now require up-dation / revision as large amount of new capacities e.g. Coal, Nuclear, Hydel etc. along-with HVDC transmission line have since been added in the system, and also to cater for the impact of PKR vs US\$ devaluation, hike in fuel prices and CPI indexations. This revision of PPP references would minimize the impact of future monthly fuel charges adjustments & quarterly variations and will provide a more predictable tariff to the consumers.
- 8.4. Here it is pertinent to mention that the NEPRA Guidelines for determination of consumer end tariff (Methodology and Process) notified vide SRO dated 16.01.2015, prescribes submission of Procurement Plan by CPPA-G and approval of Power Purchase Cost by the Authority. Accordingly, CPPA-G, submitted its Power Purchase Price forecast report for the FY 2021-30, which outlines end consumer tariff outlook up-to FY 2030, and electricity price projections based on IGCEP.
- 8.5. As per the Report, CPPA-G has projected total generation of 136,867 GWh for the FY 2021-22, with the certain assumptions of fuel prices and other parameters i.e. exchange rate, CPI, USCPI, LIBOR and KIBOR etc. However, considering the fact that adjustments in PPP pertaining to the FY 2021-22 are already being processed as per the notified tariff, therefore, the projections by CPPA-G for FY 2021-22 are not relevant and by the time the instant tariff determination would be notified, the PPP reference for the FY 2022-23 will be relevant.
- 8.6. The Authority is cognizant of the fact that major component of the consumer-end tariff is the Power Purchase Price, which accounts for around 90% of total consumer-end tariff. Therefore, projection of PPP is of utmost importance, as all future monthly fuel charges adjustments as well as quarterly adjustments are worked out based on the projected notified PPP references.
- 8.7. In view thereof, the Authority by adopting a forward looking approach, has projected the revised PPP references keeping in view the ground realities for the FY 2022-23. For the purpose of determining the new PPP references, the Authority has made its own projections of PPP references for the FY 2022-23 by first projecting the total amount of generation that would be required and then estimating the plant wise generation along-with fuel prices and other assumptions etc., as discussed in detail in the ensuing paras.



The Authority observed that as per the IGCEP approved vide decision dated 24.09.2021, the total generation has been projected as 142,563 GWh for the FY 2020-23, with peak demand of 25,779 MW. The Projected Generation as per the IGCEP for the FY 2022-23 is around 136,867 GWh, which is 5% higher as compared to the actual generation of FY 2020-21 i.e. 130,652 GWh, meaning thereby that there would be around 4.5% growth in generation during each of the FY 2021-22 and FY 2022-23.

However, it is pertinent to mention here that K-Electric during the FY 2020-21 withdrew energy of 6,118 GWhs from the National Grid, however, for the FY 2022-23, the share of energy to with obtained by K-Electric from National Grid has been assumed as 1100 MW i.e. 9,636 GWhs. The same in terms of generation, after grossing up for the allowed level of

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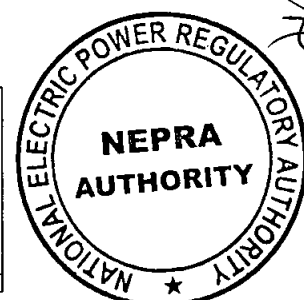
NTDC and HVDC losses works out as 9,989 GWhs. Thus, out of total projected generation of 142,563 GWhs as per the IGCEP, share of K-Electric would be 9,968 GWhs and the remaining generation of 132,385 would be for the XWDISCOs, after accounting for sale to IPPs.

- 8.10. The aforementioned projected generation has been allocated to each of the XWDISCO in proportion to its actual units purchased for the period from July 2020 to July 2021. However, for K-Electric as explained above, the energy to be drawn from National Grid has been assumed as 1100 MW flat for each month, keeping in view the current scenario, whereby KE is allowed to draw 1100 MW from the National Grid. For the purpose of energy delivered to DISCOs, actual NTDC losses with maximum cap of 2.5% (energy delivered through NTDC network) and HVDC losses as approved by the Authority have been considered.
- 8.11. Accordingly, the generation as per the approved IGCEP, for the FY 2022-23 i.e. 142,563 GWh, which after adjustment of allowed T&T losses of NTDC/ HVDC and sale to IPPs (as per previous trend), results in projected energy of 137,609 GWh, delivered to DISCOs including K-Electric and would be available with DISCOs for sale to consumers, as detailed below;

	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Total
Energy Gwh	16,107	16,018	14,326	11,208	8,185	8,657	8,928	7,966	9,803	11,455	14,221	15,687	142,563
NTDC Losses	490.06	505.01	461.88	383.63	316.93	334.75	352.97	293.81	354.90	372.49	425.67	459.25	4,751
Sale to IPPs	22.91	22.78	20.37	15.94	11.64	12.31	12.70	11.33	13.94	16.29	20.22	22.31	203
Energy Delivered to DISCOs	15,594	15,491	13,844	10,809	7,856	8,310	8,563	7,661	9,434	11,066	13,775	15,206	137,609

- 8.12. The energy delivered to DISCOs has been allocated to each XWDISCO on monthly basis in proportion to their actual units purchased for the period from July 2020 to July 2021. For K-Electric, actual units purchased have been considered at 1100 MW flat for the FY 2022-23. Thus, resulting in following DISCO wise projected allocation of energy;

DISCOs	Projected Units to be Sold to DISCOs GWh												
	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Total
IESCO	1,538	1,482	1,267	959	711	815	844	690	779	889	1,241	1,526	12,738
LESKO	3,010	2,983	2,888	2,190	1,485	1,600	1,698	1,482	1,861	2,125	2,580	3,125	27,027
GEPCO	1,621	1,507	1,454	1,017	689	696	678	619	825	967	1,254	1,512	12,820
FESCO	1,942	1,961	1,787	1,359	906	937	970	924	1,181	1,385	1,736	1,933	17,023
MEPCO	2,644	2,835	2,335	1,887	1,034	1,015	1,084	1,052	1,486	1,857	2,428	2,440	21,897
PESCO	1,881	1,886	1,471	1,187	994	1,158	1,222	1,014	1,080	1,265	1,619	1,815	16,532
HESCO	701	619	577	505	324	306	304	290	425	584	676	666	5,957
QESCO	712	657	585	553	516	535	512	475	534	618	664	680	7,041
SEPCO	562	551	501	350	227	224	223	192	264	403	581	520	4,577
TESCO	185	191	187	205	196	206	209	183	201	204	167	197	2,361
K-Electric	818	818	792	818	792	818	818	739	818	792	818	792	9,836
Total	16,594	15,491	13,844	10,809	7,856	8,310	8,563	7,661	9,434	11,066	13,775	15,206	137,609



- 8.13. Since the power generated from different sources is procured by the Central Power Purchasing Agency (CPPA (G)) on behalf of XWDISCOs as per the rates so determined by the Authority and subsequently reflected in the respective Power Purchase Agreements (PPAs). The overall power purchase cost constitutes a pool price which is transferred to the DISCOs according to the prescribed mechanism and notified by the Federal Government in the Official Gazette. The Power Purchase Price so projected, in turn formulates the reference values for the monthly fuel adjustments & biannual PPP adjustment with respect to T&D losses, Capacity and Transmission Charges.
- 8.14. From all the available sources of generation of electricity, i.e. Hydel, Gas, Nuclear, Local and imported Coal, Solar, Wind, and Bagasse etc., a total of 142,563 GWh power is expected to be generated during the FY 2022-23. Here it is also important to mention that while projecting generation, the plants have been projected to be operated as per Merit order, keeping in view the projected prices of different fuels. The average prices for different fuels

have been assumed as Rs.3,183/mmbtu for RLNG, Rs.2,078/mmbtu for imported coal, Rs.1,466 /mmbtu for local coal, and Rs.1,000 /mmbtu for local gas. All prices have been considered exclusive of GST. Assumptions and criteria for projection of fuel prices for each of the fuel has been discussed in detail in the ensuing paragraphs.

8.15. Accordingly, the estimated/projected source-wise generation and the estimated cost of electricity generation is given in the following table;

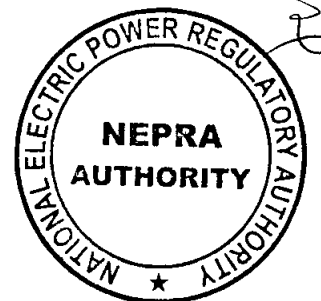
Source	Generation MkWh	Share	EPP Rs. Mln	CPP Rs. Mln	EPP + CPP Rs. Mln	EPP Rs./kW h	CPP Rs./kW h	EPP + CPP Rs./kWh
Hydel	44,859	31.47%	5,566	232,775	238,341	0.12	5.19	5.31
RFO	-	0.00%	-	70,300	70,300	-	-	-
Coal	39,202	27.50%	754,465	361,638	1,116,103	19.25	9.22	28.47
Gas	12,685	8.90%	107,105	57,377	164,482	8.44	4.52	12.97
RLNG	15,036	10.55%	336,262	122,730	458,991	22.36	8.16	30.53
Bagasse	1,012	0.71%	7,225	8,794	16,019	7.14	8.69	15.84
Wind	5,611	3.94%	-	116,087	116,087	-	20.69	20.69
Solar	1,163	0.82%	-	24,671	24,671	-	21.22	21.22
Nuclear	22,281	15.63%	21,065	304,219	325,284	0.95	13.65	14.60
Import	498	0.35%	9,269	3,144	12,413	18.60	6.31	24.91
SPPs	217	0.15%	1,428	-	1,428	6.59	-	6.59
Total	142,563	100.00%	1,242,385	1,301,735	2,544,120	8.71	9.13	17.85

8.16. Here it is pertinent to mention that the aforementioned energy charge includes variable O&M charges, however, variable O&M charges are not made part of monthly fuel charges adjustment and are adjusted as part of quarterly / biannual adjustments.

8.17. As per the above table, around 31.47% of total generation is expected from Hydel sources, 27.50% from Coal (both local & imported), and 15.63% from Nuclear. RLNG would contribute around 10.55% of the total generation, with around 8.9% by indigenous gas. Other Renewables i.e. Wind, Solar & Bagasse and Imports/SPPs share would be around 6%. Meaning thereby that variation in generation mix and prices of Coal, and RLNG/ Gas would have greater impact on the generation cost, thus, ultimately affecting the consumer-end tariff.

8.18. Regarding projection of fuel prices i.e. RLNG, Local & Imported Coal, Local Gas etc., various reports from different sources as given hereunder have been analyzed;

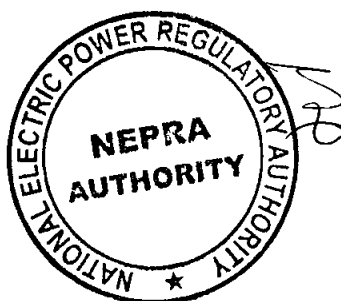
- ✓ US Energy Information Administration, Short-Term Energy Outlook October 2021
- ✓ World Bank Commodities Price Forecast
- ✓ IMF, World Economic Outlook Database
- ✓ Bloomberg (Various Analyst Firms forecast)
- ✓ Standard Chartered Bank Report
- ✓ Argus Media



8.19. Based on the information available in the aforementioned reports, the Authority has projected the following fuel prices in terms of RLNG, Local & Imported Coal, and Gas, for the purpose of Power Purchase Price;

8.20. The Authority noted that as per the RLNG price notification issued by OGRA, RLNG prices in Pakistan are benchmarked with Brent Crude Oil Prices and are determined as a slope (%) of price of crude oil. In addition to this price, Port charges, PSO import related actual costs,

- PSO/ PLL Margin and Terminal Charges etc. are added to the price. The said prices are also adjusted with the Transmission Losses and other miscellaneous costs. Thus, the RLNG prices in Pakistan are not only affected by the international prices, being linked with crude oil, but also by the exchange rate parity.
- 8.21. Therefore, to have a fair projection of RLNG prices, the Authority considered the projections of Brent Crude oil prices by various reliable sources i.e. Short Term Energy Outlook published by US Energy Information Administration, World Bank Commodities Price Forecast report, IMF-World Economic Outlook Database and various analyst firm forecasts.
- 8.22. The 2nd factor for determination of price of RLNG is the slope that is applied on the price of Crude oil. To have a fair assessment of the applicable slope, the actual slope on which RLNG has been procured by PSO and PLL including spot purchases, during the last 12 months period has been analyzed. Accordingly, by applying the % slope on the projected prices of Crude Oil, the Delivered Ex-Ship (DES) prices of RLNG have been worked out. Here it is pertinent to mention that beside slope, certain additional charges like PSO/PLL Margin, other import related costs, terminal charges etc. are also applicable on CIF price of RLNG. Accordingly, the Authority keeping in view the projected prices of crude oil, % slope, and impact of rupee devaluation, has projected RLNG prices as Rs.3,183/mmbtu.
- 8.23. For indigenous gas, the Authority considering the existing price of Rs.924/mmbtu inclusive of GIDC, has projected the same as Rs.1,000/mmbtu for the power purchase price projections.
- 8.24. Regarding price of imported coal, the Authority observed that majority of coal used by coal power plants operating in Pakistan, is imported from South Africa and to some extent from Indonesia, therefore, for the purpose of projection of coal prices, the price forecasts given by World Bank Commodities Price Forecast, Argus-McCloskey etc. have been considered. Accordingly, based on these reports and keeping in view the impact of devaluation of Pak Rupee, and by incorporating therein the Marine Insurance, Handling Loss, Other Charges (Port Handling Charges, Customs Duties & Cess, L/C Charges), Inland Freight etc., the price for imported coal works out as average Rs.2,078/mmbtu.
- 8.25. For projection of local coal prices for Thar coal, the Authority has considered the coal price determination made by Thar Coal Energy Board (TCEB) for Block-II. As per the TCEB determination, reference tariff determined for the 4th year includes variable cost of US\$ 15.10 /Ton and fixed cost of US\$ 50.58/Ton. The said total reference total cost determined by TCEB has been indexed with US CPI and US\$ /PKR exchange rate to work out the projected coal price for the FY 2022-23, which works out as Rs.1,466 mmbtu. The same has been considered while projecting the PPP references.
- 8.26. Based on the above discussion, the source wise estimated/projected generation and the estimated cost of electricity generation is given in the following table;





Source	Generation MkWh	Share	EPP Rs. Min	CPP Rs. Min	EPP + CPP Rs. Min	EPP Rs./kW h	CPP Rs./kW h	EPP + CPP Rs./kWh
Hydel	44,859	31.47%	5,566	232,775	238,341	0.12	5.19	5.31
RFO	-	0.00%	-	70,300	70,300	-	-	-
Coal	39,202	27.50%	754,465	361,638	1,116,103	19.25	9.22	28.47
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Wind	5,611	3.94%	-	116,087	116,087	-	20.69	20.69
Solar	1,163	0.82%	-	24,671	24,671	-	21.22	21.22
Nuclear	22,281	15.63%	21,065	304,219	325,284	0.95	13.65	14.60
Import	498	0.35%	9,269	3,144	12,413	18.60	6.31	24.91
SPPs	217	0.15%	1,428	-	1,428	6.59	-	6.59
Total	142,563	100.00%	1,242,385	1,301,735	2,544,120	8.71	9.13	17.85
Add: NTDC/ HVDC & CPPA-G Cost			118,325					
Less: NTDC/ HVDC Losses (4,751)								
Less: Sale to IPPs (203)			(4,055)					
PPP Adjusted	137,609		1,238,330	1,420,060	2,658,390	9.00	10.32	19.32

8.27. The generation cost is transferred to the DISCOs according to the Transfer Price Mechanism (TPM) as prescribed by the Authority.

8.28. According to the above mechanism, Rs.70,012 million and Rs.6,382 million is the share of the Petitioner on account of CpGenCap and UoSC & Market Operator Fee respectively for the FY 2022-23. The overall fixed charges comprising of CpGenCap and UoSC & Market Operator Fee in the instant case works out as Rs.76,394 million, which translate into Rs.4,396/kW/month based on projected average monthly MDI of the Petitioner i.e. 1,448 MW or Rs.10.85/kWh on units purchased basis.

8.29. The total annual PPP of the Petitioner for the FY 2022-23 in the instant case works out as Rs.139,263 million, with the projected purchase of 7,041 GWh for the same period, the average PPP of the Petitioner turns out to be as Rs.19.78/kWh (Annex-IV), whereas, the national average determined PPP works out as Rs.19.32/kWh after accounting for the allowed level of NTDC/ HVDC losses and sale to IPPs. Similarly National Average Energy Purchase price works out as Rs.9.00/kWh. On the basis of allowed level of T&D losses of 14.27% for the Petitioner for the 3rd Year of the MYT, the adjusted PPP of the Petitioner is assessed as Rs.23.07/kWh.

9. What are the basis used by the Petitioner for bifurcation of its costs into supply and distribution segments?

9.1. The Petitioner submitted the following bifurcation of costs, into supply and distribution segments, during the hearing:

Supply of power	Distribution of power
•EXPENSES OF REVENUE OFFICES	•EXPENSES OF OPERATION DIVISIONS & GSO CIRCLES
•SALARIES AND OTHER EXPENSES OF BILL DISTRIBUTERS	•HEAD OFFICE EXPENSES ALLOCATED ON THE BASIS OF NUMBER OF OPERATION DIVISIONS AND GRID STATION OFFICES
•SALARIES AND OTHER EXPENSES OF METER READERS AND METER SUPERVISORS	•15% OF EXPENSES OF COMPUTER CENTER
•HEAD OFFICE EXPENSES ALLOCATED ON THE BASIS OF NUMBER OF REVENUE OFFICES	
•85% OF EXPENSES OF COMPUTER CENTER	

9.2. The Authority understands that as per the Amended Act, the Distribution Licensee is responsible to provide distribution service within its territory on a non-discriminatory basis and develop, maintain and publicly make available, with the prior approval of the Authority,

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an investment program, meaning thereby, that installation/investment, operation, maintenance and controlling of distribution networks, form part of the Distribution License and activities like billing and collection form part of the Supply License.

- 9.3. The Authority in the determination of the Petitioner for the FY 2019-20 decided the following;

"The Authority believes that after amendments in NEPRA Act, all the Public Sector Distribution companies are required to make organizational restructuring in terms of segregation of responsibilities of the Distribution and Sale functions and in order to ensure appropriate coordination between both functions. Hence, keeping in view the fact that it is operational issue and DISCOs are owned by the Federal Government, it would be more appropriate that a centralized restructuring plan at the level of Federal Government is prepared to be implemented by all the public sector DISCOs in order to have a uniformity and consistency in the structure."

- 9.4. It is again desired that a centralized restructuring plan at the level of Federal Government is prepared, so that a uniform & consistent basis/ approach is adopted by all the DISCOs. Till such time, the submissions of the Petitioner are considered.

10. Whether the projected O&M is justified?

11. Whether the projected Return on Regulatory Asset Base (RORB), Depreciation & Other Income is justified?

12. What should be the adjustment mechanisms during the MYT? Whether there should any efficiency factor (X Factor)?

- 12.1. The Petitioner submitted that the requested O&M expenses includes salaries and other benefits of employees, repair and maintenance expenses, traveling allowance, vehicle maintenance allowance and other operating costs related to its distribution and supply business. The Pay & allowances for the FY 2020-21 have been estimated based on the Company's present strength.

- 12.2. Pay & allowances and employee benefits including retirement benefits constitute a major portion of the Company's O&M expenses. The Petitioner also submitted that requested amounts of O&M are calculated by taking CPI impact, 25% disparity Allowance w.e.f. March 2021 for base year and for remaining control period indexation of CPI along-with cost of new hiring. A summary of the final O&M costs requested by the Petitioner, under the MYT control period, during hearing of the instant Petition for the Distribution function is as under:

Description	20-21	21-22	22-23	23-24	24-25	Basis
Salaries and Other Benefits	1,013	1,108	1,149	1,191	1,234	10% increase in salary & annual increment effect
Critical Vacancies required to be filled	-	39	112	142	149	Provision for critical vacancies
MIRAD Budget	-	23	23	23	23	Provision for MIRAD
Retirement benefits Provision	556	612	673	740	814	Actuarial provision
Trainings	-	20	20	20	21	Provision for trainings
Repair and Maintenance	15	14	15	15	16	1.3% of Net fixed Assets
Traveling expenses	39	41	43	46	48	5% increase
Vehicle expenses	15	15	17	18	20	5% increase
Admin expenses	125	130	142	154	168	6.8% CPI increase
Grand TOTAL	1,764	2,002	2,193	2,349	2,492	

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12.3. The Petitioner submitted that Pay and allowances includes salaries of regular and contract employees, wages of daily wages, which includes all benefits such as house rent and acquisitions allowances, medical allowances and facilities, free electricity and pension contribution. Considering the impact of increase in salaries annual increment etc. by the Government as per the finance bill. Government of Pakistan approved Disparity Reduction Allowance 25% of the basic pay to all Federal Government Employees w.e.f 1st March, 2021.

13. Repair & maintenance expenses:

13.1. The Petitioner in its petition submitted that R&M expenses pertain to Civil, System Maintenance, Other plants and equipment's including Computers and Office Equipment's. Regarding basis of requested amount the Petitioner during hearing submitted that same has been projected based 1.3% of net Fixed assets.

14. Travelling & Other Operating expenses:

14.1. The Petitioner submitted that the travelling expenses for daily movement from allied formation to all bank branched and collect the scroll from banks and submit to MIS Directorate.

15. Vehicle running Expenses

15.1. The Petitioner submitted that transportation charges include repair and maintenance of vehicles, POL and annual renewal of registration fees.

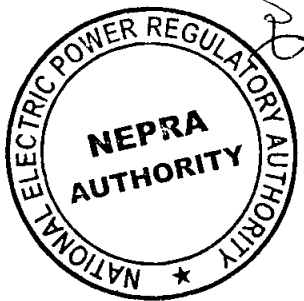
16. RORB

16.1. On the issue of RoRB, the Petitioner submitted the following;

16.2. The return on investment on the (cost of capital) will be calculated as follows:

$$\text{ROR} = \text{Profit Rate Base} \times \text{Rate of Return}$$

Where:



Profit Rate Base is defined for the FY 2020-21 to FY 2024-25 as the sum of (i) Gross Fixed Assets in Operation beginning of the year (ii) The capital expenditures for the year (New Investments), in accordance with the proposed investment program (iii.) Less Cumulative Depreciation (iv) Plus Closing Capital Work in Progress (v) Less: Differed Credit.

Annual Rate of Return is a pre-tax return on the Profit Rate Base. Because the investment is typically financed with a combination of debt equity, the appropriate rate of return would be a market-based weighed average of the cost of capital

16.3. Average ROR is kept at 15.02% as cost of capital as allowed by NEPRA for the FY 2019-20.

$$\begin{aligned} K_e &= R_F + (R_M - R_F) \times \beta \\ \text{cost of debts ; } k_d &= \text{Interest on loans} \\ \text{WACC} &= [K_e \times (E/V)] + [k_d \times (D/V)] \end{aligned}$$

Where E/V and D/V are equity and debt ratio respectively taken as 20% & 80%.

16.4. The Petitioner accordingly projected the following RoRB for the FY 2020-21 to 2024-25;

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RORB of Supply Business (Rs in Million)					
RORB for supply Business	2020-21	2021-22	2022-23	2023-24	2024-25
Other Equipment	1	1	2	2	2
Computers	5	16	12	8	5
Vehicles	1	2	2	2	2
Total	7	19	16	12	9

17. Depreciation:

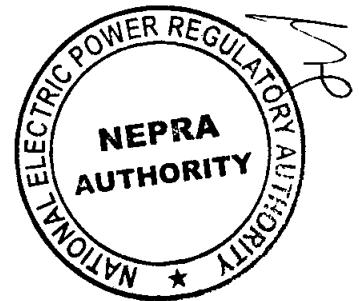
- 17.1. Regarding depreciation charges, the Petitioner submitted that requested Depreciation is calculated on basis of approved rates as per company policy;

Depreciation of Supply Business (Rs in Million)					
Depreciation of Supply Business	2020-21	2021-22	2022-23	2023-24	2024-25
Other Equipment	1	1	2	2	2
Computers	11	33	37	39	45
Vehicles	2	4	5	6	6
Total	14	38	43	47	53

18. Other Income:

- 18.1. On the issue of Other Income, the petitioner submitted that other income pertaining to Distribution Business has been considered for base year and CPI impact taken for remaining control period.

Description	2020-21	2021-22	2022-23	2023-24	2024-25
Return on Bank Deposits	65.68	67.9	70.53	73.64	65.68
Rental & Service Income	1.05	1.08	1.12	1.15	1.05
Reconnection Fees	1.01	1.11	1.22	1.35	1.01
Miscellaneous	8.67	9.54	10.49	11.54	8.67
Total	74	76	80	83	88



- 18.2. The Authority observed that the Amended NEPRA Act under Section 31(3), *inter alia*, has prescribed that the following general guidelines shall be applicable to the Authority in the determination, modification or revision of rates, charges and terms and conditions for provision of electric power services;

- ✓ *“(a) tariffs should allow licensees the recovery of any and all cost prudently incurred to meet the demonstrated needs of their customers Tariff.”*
- ✓ *“(b) tariffs should generally be calculated by including a depreciation charge and a rate of return on the capital investment of each licensee commensurate to that earned by other investments of comparable risk;*
- ✓ *“(c) tariffs should allow licensees a rate of return which promotes continued reasonable investment in equipment and facilities for improved and efficient service;*

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- ✓ (d) tariffs should include a mechanism to allow licensees a benefit from and penalties for failure to achieve the efficiencies in the cost of providing the service and the quality of service;"

18.3. Further, as per NEPRA determination of Consumer-end-Tariff (Methodology & Process) Guidelines, 2015, the Authority shall choose a base year for the purpose of determining the affected company's revenue requirement under multi-year tariff regime or annual tariff regime. "Base Year" has been defined as the year on which the annual or multiyear tariff projection is being made, which may be a historical financial year, for which the actual results/audited accounts are available. It may be a combination of actual results and projected results for the same financial year or it may be a pure projection of a future financial year.

18.4. The Authority noted that as per the approved tariff methodology the Power Purchase Price is the only uncontrollable cost which is allowed a pass through item. The other remaining costs are to be treated as controllable costs.

18.5. Considering the fact that the MYT has been filed for the period pertaining to the FY 2020-21 to FY 2024-25, and the cost for the FY 2020-21 i.e. test year, is being assessed as reference cost during the MYT control period, the Authority has decided to consider the costs as per the Audited / Provisional accounts of the Petitioner for the FY 2019-20, and/or the request of the Petitioner in this regard as base year.

18.6. The Authority considers that for projections or assessment of OPEX costs, the two commonly used approaches are the Ex-Ante approach and the Ex-Post approach. In a regime where the allowed OPEX is determined Ex-Ante, there will inevitably be deviations between the allowed and actual OPEX in the form of efficiency savings or losses. Thus resulting in two broad options, one that the utility bears all savings or losses, i.e. no action is taken by the Regulator. The 2nd that the utility shares the savings or losses with consumers. The former provides the utility with a profit incentive to cut costs, but at the same time places the utility at greater financial risk in the face of losses. The latter somewhat dilutes efficiency incentives, but also limits the losses/gains for the utility and its customers. However, the widely used approach is that no adjustments to allowed Revenues or OPEX allowances are made in the next period to compensate for a deviation from allowed OPEX in the current period except for certain allowed adjustments in terms of CPI etc.

18.7. In view thereof, the head wise assessment of the Petitioner under each of the requested costs is as discussed hereunder.

19. Salaries and wages:

19.1. The Petitioner submitted that Salaries & Wages including employee's retirement benefits is the major component of O&M expense. The Authority understands that employees of XWDISCOs are hired on Government pay scales, thus, any salary increase announced by the Federal Government in Fiscal Budget is also applicable on the employees of XWDISCOs. Therefore, salaries & wages cost of employees can be considered as un-controllable cost for XWDISCOs as long as they remain in public sector.

19.2. The petitioner in compliance to the direction of the Authority has also submitted replacement hiring certificate. Therefore, while assessing the reference cost for the Petitioner MYT control period no deduction has been made in this regard.

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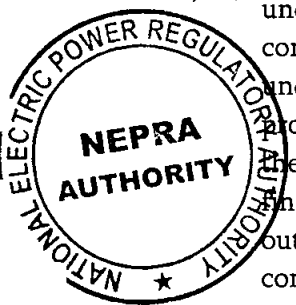
- 19.3. Considering the fact that the cost for the FY 2020-21 is being assessed, which would be used as reference during the MYT control period, the Authority has decided to consider the costs as per the accounts of the Petitioner for the FY 2019-20 as base year as explained in the preceding paras. It is also pertinent to mention that being a public sector company, the Petitioner is required to pay, its employees, increases in salaries & wages announced by the Federal Government through Budget. This also addresses the concern of the Petitioner in terms of salaries & wages cost being uncontrollable.
- 19.4. The actual total cost reflected in the Audited accounts of the Petitioner for the FY 2019-20, under Salaries & Wages (*excluding postretirement benefits, discussed separately*) is Rs.4,193 million. Accordingly, the said amount has been considered as base cost and by applying thereon the increases as approved by the Federal Government on Salaries and Wages in the Federal Budget for the FY 2020-21, the cost of Salaries & Wages (*excluding postretirement benefits, discussed separately*), for both the Distribution and Supply Functions works out as Rs.4,623 million. The same is hereby allowed to the Petitioner for the FY 2020-21 for both its distribution and Supply Functions as reference cost, to be adjusted in the remaining control period as per the adjustment mechanism prescribed in the instant determination.
- 19.5. Since the Audited accounts of the Petitioner, do not provide bifurcation of the Salaries, Wages and other benefits costs in terms of Distribution and Supply Functions, therefore, for the purpose of allocation of total cost of Salaries, Wages and other benefits in terms of Distribution and Supply Functions, the criteria as adopted by the Petitioner has been used. Accordingly, the cost of Salaries, Wages and other benefits (*excluding postretirement benefits*) for the FY 2020-21 pertaining to the supply function works out as Rs.1,053 million.
- 19.6. The assessed Salaries & Wages costs for the FY 2020-21 i.e. Rs.1,053 million, shall be considered as the reference cost for working out future Salaries & Wages expenses of supply function, in the remaining control period as per the adjustment mechanism prescribed in the instant determination.

20. Additional Hiring

- 20.1. Regarding additional recruitment, the Authority observed that Salaries & Wages cost for the FY 2019-20, as per the Audited accounts of the Petitioner, have been considered as base cost, therefore, impact of any new recruitment already made till FY 2019-20 has been accounted for. For the proposed recruitment to be carried out in FY 2020-21 and onward, the Authority understands that allowing cost of additional hiring, upfront would be unfair with the consumers, without considering/ analyzing the benefits of such recruitment. The Authority understands that it will be in a better position to adjudicate on the issue once the Petitioner provides details of the actual cost incurred in this regard and substantiates the same with the quantified benefits accrued. In view thereof, the Authority has decided to consider the financial impact of any additional hiring during the midterm review, which will be carried out after expiry of 3rd year of the MYT control period, whereby the Petitioner would provide complete detail/ justification of the recruitment made along-with benefits achieved. The mid-term review would be carried out, in case the Petitioner remains in the Public sector.

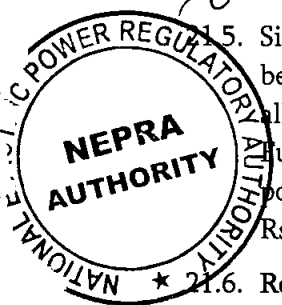
21. Post-Retirement Benefit

- 21.1. On the issue of Post-retirement benefits, it is also pertinent to mention that the Authority in its previous determinations, considering the overall liquidity position in the power sector and in order to ensure that XWDISCOs fulfil their legal obligations with respect to the post-



retirement benefits, directed the XWDISCOs to create a separate fund in this regard. The rationale behind creation of separate fund was to ensure that DISCOs record their liability prudently as the funds would be transferred into a separate legal entity, which would also generate its own profits, as it would be kept separate from the Company's routine operations, thus reducing the Distribution Margin and eventually consumer-end tariff in longer run.

- 21.2. The Petitioner during its tariff determination for FY 2014-15 submitted that consultant M/s Zahid & Zahid has been hired for creation of postretirement benefits funds and the draft trust deed has been sent by the Consultant. The direction of creating independent post retirement fund was passed during the FY 2011-12 and since the Distribution Companies were not creating independent fund, therefore, the actual amount on account of pension fund was being allowed. In view thereof the Authority in its determination for FY 2014-15 again directed the Petitioner to complete the process of creation of separate post retirement fund and to transfer amount in the post retirement benefit fund and claim the amount so transferred from the Authority in the next year's tariff determination by submission of evidence of the amount transferred. Similarly in the tariff determination for the FY 2015-16, FY 2016-17 FY 2017-18, FY 2018-19 and FY 2019-20, the Authority owing to non-creation of the separate post retirement fund, once again directed the Petitioner to create the fund. The Petitioner during hearing requested the Authority to extend the date for creation of fund.
- 21.3. The Authority, understands that payment of postretirement benefits to the retired employees is a compulsory obligation of the Petitioner and by not creating a separate post retirement fund would not absolve the Petitioner from its responsibility in this regard.
- 21.4. In view thereof, the Authority has decided to considered the amount of actual payments as per the Audited accounts of the Petitioner for the FY 2019-20 as base cost and by applying thereon the increases as approved by the Federal Government on Pension Benefits in the Federal Budget for the FY 2020-21, the cost of post-retirement benefits for the FY 2020-21 for both the Distribution and Supply Functions works out as Rs.1,334 million. The same is hereby allowed to the Petitioner for the FY 2020-21 for both its distribution and Supply Functions as reference cost, to be adjusted in the remaining control period as per the adjustment mechanism prescribed in the instant determination.
- 21.5. Since the Audited accounts of the Petitioner, do not provide bifurcation of post-retirement benefits in terms of Distribution and Supply Functions, therefore, for the purpose of allocation of total cost of post-retirement benefits in terms of Distribution and Supply Functions, the criteria as adopted by the Petitioner has been used. Accordingly, the cost of post-retirement benefits for the FY 2020-21 pertaining to the Supply function works out as Rs.304 million.
- 21.6. **Regarding Repair and Maintenance expenses**, the Petitioner has requested amount of Rs. 728 million for the FY 2020-21 for its distribution function only. The Petitioner during hearing submitted that same has been projected based 1.3% of net Fixed assets
- 21.7. The Authority has carefully examined the Petitioner's request of linking the R&M cost as a percentage of Net Fixed Assets (NFAs). The Authority, while going through the actual expenditure incurred by the Petitioner on account of R&M during the last two years as per its audited accounts, observed that the same works out as 1.94% and 2.39% of the Net fixed





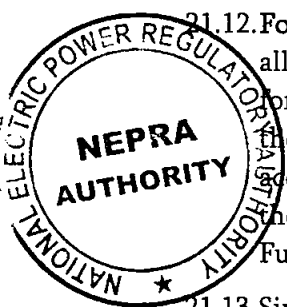
assets for the FY 2018-19 and FY 2019-20 respectively. Moreover, the Petitioner has not provided any rationale or working to substantiate its request of setting R&M as 1.3% of Net fixed assets except that it has to maintain vast & old distribution system. The Authority while reviewing the request of the Petitioner has observed that amount requested by the Petitioner under head of R&M is not calculated based on 1.3% of net fixed assets in operation.

21.8. No doubt that the adherence to service standards and improvement of customer services is only possible through continuous repair and maintenance of distribution network, however, at the same time the Petitioner has also requested for huge CAPEX of over Rs.76 billion for making additional investment in Fixed Assets, resulting in new, expensive and efficient equipment, leading to overall reduction in R&M cost and increasing the total Assets base. Thus, the Petitioner idea if adopted would result in undue benefit to the Petitioner in the long run. Thus, the request of the Petitioner to link R&M cost with the certain % of Fixed Assets is not justified.

21.9. In view of the foregoing and keeping in view the current approved tariff methodology, the Authority has decided to allow an amount of Rs.743 million under R&M head, for the FY 2020-21, as requested by the Petitioner, for both the Distribution and Supply Functions. The same is hereby allowed to the Petitioner for the FY 2020-21 for both its distribution and Supply Functions.

21.10. Since the Audited accounts of the Petitioner, do not provide bifurcation of the R&M costs in terms of Distribution and Supply Functions, therefore, for the purpose of allocation of total cost of R&M costs in terms of Distribution and Supply Functions, the criteria as adopted by the Petitioner has been used. Accordingly, the cost of repair & maintenance for the FY 2020-21 pertaining to the Supply function works out as Rs.15 million.

21.11. The assessed repair and maintenance cost for the FY 2020-21 i.e. Rs.15 million, shall be considered as the reference cost for working out future repair and maintenance expenses for its supply function, in the remaining control period as per the adjustment mechanism prescribed in the instant determination.



21.12. For other O&M Expenses, the Authority noted that as per the approved tariff methodology, all other operating expenses are part of O&M costs which are to be assessed through CPI-X formulae for the whole tariff control period. Accordingly, for the assessment pertaining to the FY 2020-21 (reference cost), the Authority keeping in view the cost as per the Audited accounts of the Petitioner for the FY 2019-20, and the request of the Petitioner has assessed the other O&M expenses as Rs.895 million for both the distribution and Supply of Power Function for the FY 2020-21.

21.13. Since the Audited accounts of the Petitioner, do not provide bifurcation of the other O&M costs in terms of Distribution and Supply Functions, therefore, for the purpose of allocation of total cost of other O&M costs in terms of Distribution and Supply Functions, the criteria as adopted by the Petitioner has been used. Accordingly, the cost of other O&M for the FY 2020-21 pertaining to the supply function works out as Rs.170 million.

21.14. The assessed Other O&M cost for the FY 2020-21 i.e. Rs.170 million, shall be considered as the reference cost for working out future repair and maintenance expenses for its supply function, in the remaining control period as per the adjustment mechanism prescribed in the instant determination.

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21.15. By considering the figures as per the financial statements/ request of the Petitioner, the Authority has incorporated all the costs including bill collection, building rent, NEPRA fee, insurance cost, rent, rates & taxes, and travelling, transportation etc. However, Management Fees of PEPCO, has not been considered as each DISCO is an independent entity having its own board of Directors, thus, allowing any cost on the pretext of PEPCO Management fee is not logical. Further, the Ministry of Energy (MoE), itself in the Peshawar High Court submitted that PEPCO shall be dissolved after June 2011. Accordingly, the cost of PEPCO fee, if any, has not been allowed to the Petitioner.

22. RORB

22.1. The Authority observed that as per Section 31(3) of the amended NEPRA Act, the following general guidelines shall be applicable to the Authority in the determination, modification or revision of rates, charges and terms and conditions for provision of electric power services;

(b) *tariffs should generally be calculated by including a depreciation charge and a rate of return on the capital investment of each licensee commensurate to that earned by other investments of comparable risk;*

(c) *tariffs should allow licensees a rate of return which promotes continued reasonable investment in equipment and facilities for improved and efficient service;*

22.2. The Authority uses the Capital Asset Pricing Model (CAPM) for calculation of Return of Equity (RoE) component of the WACC, being the most widely accepted model, which is applied by regulatory agencies all over the world to estimate the cost of capital for regulated utilities. Further, as per the Tariff methodology, in case of negative equity the Authority would consider a minimum of 20% equity and any equity in excess of 30% would be considered as debt.

22.3. Keeping in view the above, the Authority for the assessment of RoE component for the FY 2020-21, has considered weighted average yield on 05 Years Pakistan Investment Bond (PIB) as of July 22, 2020 as risk free rate, which is 8.2139%.

22.4. The expected return on any investment is the sum of the risk-free rate and an extra return to compensate for the risk. This extra return or 'risk premium' is the difference between market rate of return and risk free rate. Generally, the return on stock market index is taken as a measure of market rate of return. To have an appropriate measure of the market rate of return, analyzed KSE-100 Index return, over a period of 10 years i.e. FY 2011 to FY 2020, which remained at around 13.9%. The Authority also analyzed returns offered by stock exchanges of the neighboring countries, and noted that return of KSE-100 index remained higher than those of neighboring countries.

22.5. Based on the above analysis, the Authority has considered the rate of return on KSE-100 index as expected market return in WACC formula for calculation of Return of equity. The rate of return on KSE-100 index of around 13.9%, translates into risk premium of around 5.68% (*with risk free rate of 8.2139%, Weighted Average Yield of 5-Year PIB as of July 22, 2020*). Therefore, keeping in view the aforementioned, Market Risk Premium of 5.68% is considered as reasonable for calculation of cost of equity component.

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- 22.6. Regarding assessment of beta, the Authority has considered the earlier studies in the matter, range of betas used by international Regulators, and accordingly decided to use the beta of 1.10, while assessing the RoE component.
- 22.7. As regard the cost of debt, it is the interest rate on which a company would get borrowing from the debt market / commercial banks i.e. a rate at which banks lend to their customers. In order to have a fair evaluation of the cost of debt, the Authority has taken cost of debt as 3 month's KIBOR + 2.00% spread. Consequently, the cost of debt has been worked out as 9.03% i.e. 3 Months KIBOR of 7.03% as of 3rd July 2020 plus a spread of 2.00% (200 basis points).
- 22.8. In view thereof, the WACC for the FY 2020-21 has been worked out as under;

Cost of Equity;

$$K_e = R_f + (R_M - R_f) \times \beta$$
$$= 8.2139\% + (13.9\% - 8.2139\% = 5.686\% \times 1.1) = 14.47\%$$

The cost of debt is;

$$K_d = 9.03\%$$

$$WACC = (K_e \times (E / V) + (K_d \times (D / V))$$

Where E/V and D/V are equity and debt ratios respectively taken as 30% and 70%;

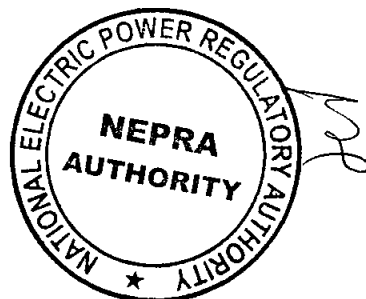
$$WACC = ((14.47\% \times 30\%) + (9.03\% \times 70\%)) = 10.66\%$$

23. Treatment of Capital Work in Progress (CWIP) while calculating the RoRB

- 23.1. The Authority noted that as per the existing practice of XWDISCOs, CWIP is made part of RAB, while calculating RoRB. Considering the fact that CWIP also includes Interest during Construction (IDC), which once capitalized becomes part of total fixed assets, the Authority, regarding treatment of CWIP as part of RAB, has considered the best practices adopted by different Regulators across the world and observed the following;

24. Energy Regulators Regional Association (ERRA) Practices for RAB

- 24.1. As per the Energy Regulators Regional Association (ERRA) tariff data base, regarding CWIP, most of the regulators think that new CAPEX should be introduced in the RAB on the basis of actual costs incurred up to the point at which the assets become operational. Some regulators include construction work in progress in the RAB when construction is to be completed within a relatively short period of time, e.g. in one year. Accordingly RAB is calculated as per the following formula;



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RAB calculation: net approach

The regulatory asset base for the year t is calculated according to the following formula:

$$CB = OB + Inv - D - AD - DC + DWC$$

where:

OB - opening value of regulatory assets for year t of the regulatory period;

Inv - investment (capital expenditures) for year t of the regulatory period;

D - depreciation for year t of regulatory period;

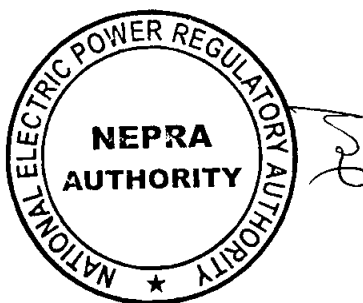
AD - assets disposal for year t of regulatory period;

DC - annual change over year t in the value of assets funded by capital contributions;

DWC - annual change over year t in working capital;

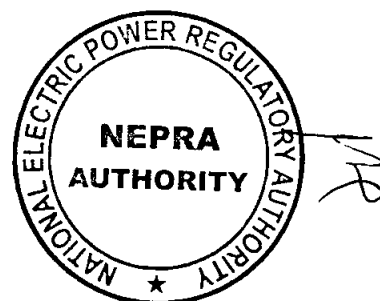
CB - closing value of regulatory assets for year t of the regulatory period

- 24.2. Similarly, in India, the Maharashtra Electricity Regulatory Commission, while calculating return only considers assets that have been capitalized and any amount beyond 30% of equity portion is treated as part of debt.
- 24.3. In view of the above international practices and the fact that CWIP includes IDC, which once capitalized becomes part of total fixed assets, the Authority has decided to allow Return on Equity only up-to 30% of the CWIP separately and make the same as part of total RoRB.
- 24.4. Based on above and using WACC of 10.66% on RAB by including allowed investment for the FY 2020-21 and excluding therefrom the amount of CWIP, and allowing RoE at 30% of the closing value of CWIP, the RoRB of the Petitioner for the FY 2020-21 has been worked out as under;



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Description	FY 2019-20	FY 2020-21
Fixed Assets O/B	44,813	45,879
Addition	1,066	1,049
Fixed Assets C/B	45,879	46,928
Depreciation	15,838	17,346
Net Fixed Assets	30,041	29,582
Capital WIP C/B	-	-
Fixed Assets Inc. WIP	30,041	29,582
Less: Deferred Credits	21,138	20,804
Total	8,903	8,778
RAB	8,840	
WACC	10.66%	
RORB	942	
Capital WIP C/B	30,909	
Equity Portion of CWIP 30%	9,273	
ROE on CWIP	1,342	
Total RORB	2,284	



- 24.5. The total amount of RoRB as worked out above has been allocated in terms of Distribution and Supply Functions, as per the criteria adopted by the Petitioner itself. Accordingly, the entire amount of RORB i.e. Rs.2 million for the FY 2020-21 has been allocated to the supply function.
- 24.6. The reference RoRB determined for the FY 2020-21 would be adjusted annually as per the adjustment mechanism prescribed in the instant determination.
- 24.7. The Authority from the annual accounts of the Petitioner for the FY 2019-20, has again observed that the Petitioner as per its accounts has insufficient cash balance as on 30th June 2020, against its pending liability of receipt against deposit works and consumer security deposits, thus, indicating that the amount received against the aforementioned heads has been utilized somewhere else for which no details have been provided. Thus, it would be unfair and unjust with the consumers to suffer due to the unlawful act of the Petitioner.
- 24.8. Accordingly, the Authority has decided, to include the amount of receipts against deposit works as a part of Deferred Credits for the assessment of RAB for FY 2020-21, after excluding therefrom the cash/ bank balances and the amount of stores & Spares available with the Petitioner as on June 30, 2020.

25. Depreciation

- 25.1. The Authority noted that as per the Methodology, depreciation expense for the test year, which in the instant case is FY 2020-21, will be determined by applying depreciation charge on the Gross Fixed Assets in Operation, including new investment and will be considered reference for the tariff control period.
- 25.2. In order to make fair assessment of the depreciation expense, the Authority accounts for the investments approved for the year. After taking into account the new investments, the Gross

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Fixed Assets in Operation for the FY 2020-21 have been worked out as Rs.45,873 million. Accordingly, the depreciation charge for the FY 2020-21 has been assessed as Rs.1,508 million calculated on actual depreciation rates for each category of Assets as per the Company policy, which will be considered as reference cost for working out future depreciation Expenses for the remaining tariff control period, to be adjusted as per the mechanism provided in the instant determination.

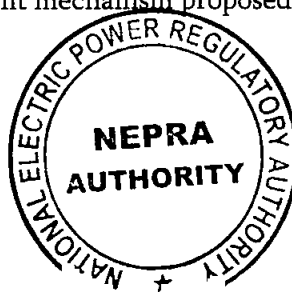
- 25.3. After carefully examining the relevant details and information pertaining to the deferred credit and amortization as per the accounts for the FY 2019-20, the Authority has projected amortization of deferred credit to the tune of Rs.665 million for the FY 2020-21. Accordingly, the consumers would bear net depreciation of Rs.844 million.
- 25.4. The actual depreciation reflected in the Audited accounts of the Petitioner for the FY 2019-20, do not provide bifurcation of depreciation cost in terms of Distribution and Supply Functions, therefore, for the purpose of allocation of depreciation cost in terms of Distribution and Supply Functions, the criteria as adopted by the Petitioner has been used. Accordingly, the depreciation cost of Rs.11 million for the FY 2020-21 has been allocated to the supply function.
- 25.5. The reference expense determined for the FY 2020-21 would be adjusted annually as per the mechanism provided in the instant determination.

26. Other income

- 26.1. Other income is considered to be a negative cost which may include, but not be limited to, amortization of deferred credit, meter and rental income, late-payment charges, profit on bank deposits, sale of scrap, income from non-utility operations, commission on PTV fees and miscellaneous income.
- 26.2. Since the other income would be trued up every year as per the mechanism provided in the instant determination, therefore, for the FY 2020-21, the Authority has assessed Rs.1,146 million as Other Income of the Petitioner for the FY 2020-21, which does not include late payment charge but includes amortization of deferred credit.
- 26.3. The Authority in consistency with its earlier decision, on the issue, has not included the amount of LPS while assessing the other income for the FY 2020-21. Here it is pertinent to mention that the LPS recovered from the consumers on utility bills shall be offset against the late payment invoices raised by CPPA (G) against respective XWDISCO only and in the event of non-submission of evidence of payment to CPPA (G), the entire amount of Late Payment charge recovered from consumers shall be made part of other income and deducted from revenue requirement in the subsequent year.
- 26.4. The total amount of Other Income as worked out above has been allocated in terms of Distribution and Supply Functions, as per the criteria adopted by the Petitioner itself. Accordingly, Other Income for the FY 2020-21 pertaining to the supply function works out as Rs.74 million, to be adjusted during the MYT control period as per the adjustment mechanism prescribed in the instant determination.

27. Adjustment Mechanism:

- 27.1. The Petitioner regarding adjustment mechanism proposed the following during hearing;



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Sr. No.	Tariff Component	Adjustment	Sr. No.	Tariff Component	Adjustment
01	Fuel Cost	Monthly	05	RORB	Annually
02	Var. O&M, CPP & UOSC	Quarterly	06	Other Income	Annually
03	O&M Cost	Annually	07	Financing Cost	Annually
04	Depreciation	Annually	08	PYA	Annually

- 27.2. The Petitioner submitted that the O&M cost has been bifurcated into controllable and uncontrollable cost, it is proposed that controllable cost will be indexed with change in Consumer Price Index (CPI) during the control period whereas uncontrollable cost will be treated as passed through items. The Petitioner further submitted that Operating expenditures will be subject to an efficiency requirement so that QESCO will be required to ensure that its increase in costs is below the rate of inflation by an efficiency factor (X) to be determined by NEPRA. However, the Petitioner has not stated any % of efficiency (X) factor.
- 27.3. The Authority, while assessing the O&M costs of the Petitioner (excluding postretirement benefits) i.e. rent, rates & taxes, Injuries & damages, collection expenses, legal charges, management fee, and Audit Charges etc., has incorporated these costs in the reference cost, keeping in view the audited accounts of the Petitioner for the FY 2019-20, to be adjusted in the remaining MYT control period as per the adjustment mechanism given below. The risk / benefits of any future cost fluctuations thereof lies with the Petitioner along with an opportunity for optimizing overall costs under these head. The treatment is in line with the very spirit of multi- year tariff regime and in accordance with Authority's approved tariff methodology.
- 27.4. Regarding adjustment of O&M costs with the efficiency factor X, the Authority noted that the Petitioner although has proposed to index its O&M to be adjusted with efficiency factor "X", however, at the same time it has been requested to keep the X-factor as zero. The Authority in line with its decisions in the matter of XWDISCOs which have been allowed MYTs, has decided to keep the efficiency factor "X", as 30% of increase in CPI for the relevant year of the MYT control period. The Authority has further decided to implement the efficiency factor from the 3rd year of the control period, in order to provide the Petitioner with an opportunity to improve its operational performance, before sharing such gains with the consumers.
- 27.5. The Authority also noted that as per the approved tariff methodology the Power Purchase Price is the only uncontrollable cost which is allowed a pass through item. The other remaining costs are to be treated as controllable costs. Accordingly, the Authority prescribes the following mechanism for adjustment of costs allowed as part of Distribution Margin, during the MYT control period;

28. Salaries & Wages and Post-retirement Benefits:

- 28.1. The reference costs shall be adjusted every year with the increase announced by the GoP, being beyond the Petitioner's control, for the respective year till the time the Petitioner remains in the public sector. In addition a 5% increase as requested by the Petitioner would be allowed on the amount of Basic pay to account for the impact of annual increment. In case, the Petitioner is privatized during the MYT period, the allowed cost of Salaries & Wages would be adjusted with CPI-X factor.

29. Post-retirement benefits

29.1. Similarly, the allowed amount of post-retirement benefits would be adjusted every year with the Pension increase announced by the GoP for the respective year, till the time the Petitioner remains in the public sector. In case, the Petitioner is privatized during the MYT period, the allowed cost of Salaries & Wages would be adjusted with CPI-X factor.

30. O&M Costs

30.1. Regarding O&M costs, the reference costs would be adjusted every Year with CPI-X factor. However, the X factor would be applicable from the 3rd year of the MYT control period. The Adjustment mechanism would be as under;

Adjustment Mechanism - Operation & Maintenance Exp.	
Operation & Maintenance Exp.	= Ref. O&M cost x [1+(CPI -X factor)]

31. RORB

31.1. The reference RoRB would be adjusted every Year based on the amount of RAB worked out for the respective year after taking into account the amount of investment allowed for that year as per the following mechanism;

Adjustment Mechanism - RoRB	
RORB(Rev)	=RORB(Ref) x RAB(Rev) / RAB(Ref)

31.2. In addition the allowed RAB for previous year will be trued up downward only, keeping in view the amount of investment allowed for the respective year. In case, the Petitioner ends up making higher investments than the allowed, the same would be the Petitioner's own commercial decision and would not be considered while truing up the RAB, unless due to any regulatory decisions/interventions/approved plans for which the Petitioner obtains prior approval of the Authority. In such case the Authority may also revise the efficiency targets in terms of T&D losses etc.

31.3. The Authority also understands that interest payment is an obligatory cash flow liability unlike discretionary dividend payment and considering the fact that any default may hamper the financial position of the Petitioner, hence the Authority has decided to cover the risk of floating KIBOR. This addresses the concern of the Petitioner to recalculate WACC for changes in input parameters. Accordingly, fluctuation in the reference KIBOR would be adjusted biannually. In addition, the Authority has also decided to allow sharing of benefit by introducing a claw back mechanism for any savings resulting from cheaper financing by the Petitioner to the extent of 2.00% spread. If the Petitioner manages to negotiate a loan below 2.00% spread, the savings would be shared equally between the consumers and the Petitioner through PYA mechanism annually. In case of more than one loan, the saving with respect to the spread would be worked out by a weighted average cost of debt. The sharing would be only to the extent of savings only i.e. if the spread is greater than 2.00%, the additional cost would be borne by the Petitioner.

32. Depreciation Expenses

32.1. The reference Depreciation charges would be adjusted every Year as per the following formula;

$$DEP (Rev) = DEP (Ref) \times \frac{GFAIO (Rev)}{GFAIO (Ref)}$$

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

32.2. In addition the allowed Depreciation for previous year will be trued up downward only, keeping in view the amount of investment allowed for the respective year. In case, the Petitioner ends up making higher investments than the allowed, the same would be the Petitioner's own commercial decision and would not be considered while truing up the depreciation expenses, unless due to any regulatory decisions/interventions/approved plans for which the Petitioner obtains prior approval of the Authority. In such case the Authority may also revise the efficiency targets in terms of T&D losses etc.

33. Other Income

33.1. Other Income shall be adjusted annually as per the following mechanism during the MYT control period to calculate future Other Income.

$$OI_{(Rev)} = OI_{(1)} + (OI_{(1)} - OI_{(0)})$$

$OI_{(Rev)}$ = Revised Other Income for the Current Year

$OI_{(1)}$ = Actual Other Income as per latest Financial Statement.

$OI_{(0)}$ = Actual/Assessed Other Income used in the previous year.

34. Whether requested financial charges are justified?

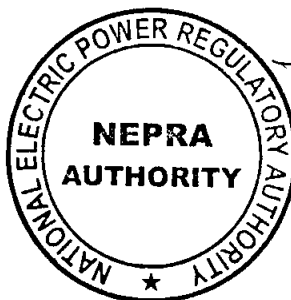
34.1. The Petitioner submitted the following financial charges request during the hearing:

FINANCIAL CHARGES					
FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	Total
1,791.147	597.049	597.049	597.049	597.049	4,179.343

34.2. The Authority observed that the Petitioner has not provided any detail in terms of nature of these charges nor has provided any workings / calculations of the amount requested. In view thereof, the Authority does not see any justification to consider the request of the Petitioner.

35. PYA

35.1. On the point of Prior-year adjustments, the Petitioner during the hearing submitted following details, however, no justification/workings has been provided to support the requested amount.



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Description	Rs/kWh	Units MKWh	Rs Million	Share of Wire Business	Share of Supply Business
Distribution Margin determined by NEPRA for 19-20	2.24				
Distribution Margin determined Notified for 2018-19	2.16				
Difference	0.08	4,842	368	331	37
Distribution Margin determined by NEPRA for 2020-21 up to Jan-21	2.24				
Distribution Margin determined Notified for 2018-19	2.16				
Difference	0.08	2,800	213	192	21
PYA by NEPRA for 2019-20	0.24				
PYA Notified for 2019-20	0.16				
Difference	0.08	4,842	384	346	38
Cost of replacement hiring disallowed by NEPRA					
2018-19			288	223	65
2019-20			318	245	73
Turn over Tax 2019-20			681		681
Turn over Tax 2018-19			562		562
Turn over Tax 2017-18			544		544
Turn over Tax 2016-7			372		372
Total PYA			3,730	1,337	2,393

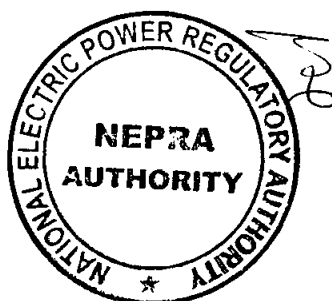
35.2. The Authority, however, understands that the Prior Year Adjustment includes the impact of variation in the following;

- ✓ Difference between the actual PPP billed and the amount recovered by the DISCO.
- ✓ Difference between the assessed DM and the amount actually recovered.
- ✓ Difference between the previously assessed PYA/ quarterly adjustment and the amount actually recovered.
- ✓ Difference between actual other income and the amount allowed
- ✓ Variation due to Sales Mix

35.3. It is important to highlight that variation between the PPP billed to DISCOs by CPPA-G and the amount recovered by the DISCOs are being accounted for separately through Quarterly/Bi-Annual Adjustment mechanism, therefore, the PYA only includes only the remaining components.

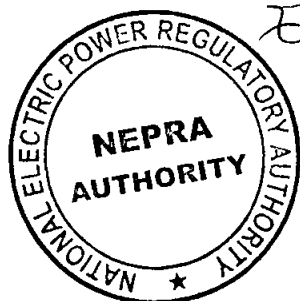
35.4. The Authority is also cognizant of the fact that for the FY 2020-21, for which the assessment is being made has already lapsed, therefore, while calculating the PYA of the Petitioner, the Authority has also included therein the impact of under/ over recovery of the assessed DM for the FY 2020-21.

35.5. Based on the discussion made in the preceding paras, the PYA of the Petitioner has been worked out as under;





Description	Rs. Mln QESCO
1st & 2nd Qtr. FY 2018-19	
Allowed Amount	10,390
Qtr. Rs./kWh	1.5236
Recovered	10,601
Under/(Over) Recovery	<u>(211)</u>
3rd & 4th Qtr. FY 2018-19	
Allowed Amount	2,615
Qtr. Rs./kWh	0.4794
Recovered	2,526
Under/(Over) Recovery	<u>89</u>
Interim D.M FY 2018-19	
Allowed Amount	1,603
Qtr. Rs./kWh	0.2938
Recovered	1,548
Under/(Over) Recovery	<u>55</u>
1st Qtr. FY 2019-20	
Allowed Amount	453
Qtr. Rs./kWh	0.0830
Recovered	439
Under/(Over) Recovery	<u>14</u>
Distribution Margin FY 2019-20	
Allowed	12,221
Recovered	10,190
Under/(Over) Recovery	<u>2,031</u>
Other Income FY 2019-20	
Allowed	(1,257)
Actual	(1,050)
Under/(Over) Recovery	<u>207</u>
Sales Mix Variances	
FY 2019-20	10,243
	<u>10,243</u>
Distribution Margin FY 2020-21	
Allowed	12,221
Recovered	11,037
Under/(Over) Recovery	<u>1,184</u>
Total Prior Period Adjustment	<u>13,612</u>



35.6. The aforementioned sales mix has been worked out based on the data provided by the Petitioner and is being allowed to the petitioner on provisional basis. The Petitioner is directed to submit complete working in this regard along-with category wise subsidy claim data for the FY 2019-20 and reasons for change in sales mix.

35.7. The Authority in line with its earlier decision in the matter of negative FCA, has calculated the impact of negative FCA pertaining to the FY 2019-20 in the matter of lifeline consumers,

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domestic consumers (consuming up-to 300 units) and Agriculture Consumers which has been retained by the Petitioner. The Authority has also worked out the impact of positive FCAs not recovered by the Petitioner from life line consumers. The Authority also considered the relevant clauses of the S.R.O. 189 (1)/2015 dated March 05, 2015 issued by GoP and the amount of subsidy claims filed by the Petitioner for the FY 2019-20.

- 35.8. After considering all the aforementioned factors, the Authority observed that the Petitioner has retained a net amount of Rs.1,036 million on account of negative FCA for the FY 2019-20, pertaining to the lifeline consumers, domestic consumers (consuming up-to 300 units) and Agriculture Consumers, which is still lying with the Petitioner. The Authority also considered the amount of subsidy claims filed by the Petitioner for the FY 2019-20, which shows a net subsidy claim filed by the Petitioner.
- 35.9. The Authority in view of the above and in line with its earlier decisions, has decided not to adjust the impact of negative FCA across different consumer categories. Thus, the net negative FCA amount pertaining to the lifeline consumers, domestic consumers (consuming up-to 300 units) and Agriculture Consumers for the FY 2019-20 i.e. Rs.1,036 million, which is still lying with the Petitioner, must be adjusted by the Federal Government, against the overall Tariff Differential Subsidy claim in the matter of the Petitioner eventually reducing GOP's overall Tariff Differential Subsidy burden. The above working has been carried out based on the data/ information provided by PITC, as DISCOs have not submitted the required information. In case DISCOs own calculations are different from the aforementioned numbers, keeping in view the last slab benefits etc., the same may be shared with the Authority in its subsequent adjustment request. This decision of the Authority is only applicable under a subsidy regime, whereby aforementioned classes of consumers are receiving subsidy directly in their base tariff.
- 35.10. Here it is pertinent to mention that the impact of under/ over recovery of quarterly adjustments for the FY 2018-19 and 1st quarter of the FY 2019-20 has been worked out based on total units i.e. without adjusting the impact of life line units as DISCOs have neither submitted their workings in this regard nor provided break-up of category wise units sold for the period. In view thereof, the Petitioner is directed to provide its working in the matter along-with break-up of units sold for each category for the period from FY 2019-20 till FY 2021-22, for consideration of the Authority. Any adjustment in this regard would be adjusted subsequently as PYA.
36. Whether the existing fixed charges applicable to different consumer categories needs to be revised and requires any changes in mechanism for charging of such charges based on Actual MDI or Sanction Load or otherwise?
- 36.1. The Petitioner during the hearing submitted that fixed charges should be applicable on actual MDI basis to all categories of tariff having sanctioned load more than 5 kW and by applying the above fixed charges, a revenue of Rs.5.79 million is projected.
- 36.2. The Authority noted that other DISCOs also during proceedings of their tariff petitions supported applicability of fixed charges based on sanctioned loads.
- 36.3. The Authority also noted that as per the decision dated 01.11.2021 in the matter of Wheeling Costs to be included in the Tariff Determination of DISCOs, it was decided as under;

"Hybrid BPC"

12.1. In future tariff determinations of DISCOs, for Hybrid BPCs, fixed charges shall be levied based on their sanctioned load or actual MDI, whichever is higher and will be applicable on such BPCs who retain DISCOs as deemed supplier. In the meanwhile, based on the above formula, NEPRA will determine it on case to case basis."

- 36.4. The Authority observed that as per the current tariff structure, certain consumer categories like Commercial, Industrial, Bulk and Agriculture are levied fixed charges, which are based on their actual MDI for the month. The Authority considers that the capacity charges of generation companies which are fixed in nature, as it has to be paid based on plant availability, are charged to DISCOs based on the actual MDIs of DISCOs. However, the present consumer end tariff design is of volumetric nature whereby major portion of the cost is charged / recovered from the consumers on units consumed basis i.e. per kWh and only a small amount is recovered on MDIs basis from the consumers.
- 36.5. In view of the above discussion, decision of the Authority dated 01.11.2021 in the matter of wheeling and to ensure that Hybrid BPCs, who keep DISCOs connection as backup, also share portion of the fixed costs, the Authority has decided to change the mechanism for levying of monthly fixed charges to various categories of consumers. The Fixed charges shall now be charged, based on 50% of the sanctioned load or actual MDI for the month, whichever is higher. However, in such cases, no minimum monthly charges would be billed even if no energy is consumed. The Authority has also decided to increase the rate of fixed charges currently applicable to certain categories i.e. from Rs.400/kW/M, 420/kW/M and 440/kW/M to Rs.440/kW/M, 460/kW/M, and 500/kW/M respectively. At the same time, the Authority not to overburden such consumers who are levied fixed charges, has adjusted their variable rate, to minimize the impact of increase in fixed charges.
- 36.6. According to the above mechanism, Rs.70,012 million and Rs.6,382 million is the share of the Petitioner on account of CpGenCap and UoSC & Market Operator Fee respectively for the FY 2022-23. The overall fixed charges comprising of CpGenCap and UoSC & Market Operator Fee in the instant case works out as Rs.76,394 million, which translate into Rs.4,397/kW/month based on projected average monthly MDI of the Petitioner. However, Fixed charges being billed to consumers is Rs.440/kW/M, 460/kW/M, and 500/kW/M for different categories based on 50% of the sanctioned load or actual MDI for the month, whichever is higher, which is around 11% of total projected fixed charges to be charged to the Petitioner by CPPA-G.
- 36.7. Here it is also pertinent to mention that once the CTBCM becomes operational, the Hybrid BPCs shall be treated in accordance with the prevailing Regulations at that time.
37. Whether there should be any amendment in Terms and Conditions of Tariff (For Supply of Electric Power to Consumers by Supply Licensees) keeping in view the changes in Consumer Service Manual?
- 37.1. The Authority observed that certain amendments have been approved in the NEPRA CSM, regarding extension of load for B-3 & C-2 from 5MW upto 7.5MW, after following due process of law. The same amendments are also required to be incorporated in the Tariff determination of DISCOs. Accordingly, the following changes are being made in the Terms & Conditions of Tariff:
- Considering the fact that the Authority, through CSM, has already allowed extension in load beyond 5MW upto 7.5MW whose connection is at least three (3) years old, therefore,

for such consumers the applicable tariff shall remain as B-3 or C-2 as the case may be. However, while allowing extension in load, the DISCOs shall ensure that no additional line losses are incurred and additional loss, if any, shall be borne by the respective consumers."

38. Electric Vehicle Charging Stations

38.1. In order to provide an enabling regulatory regime for the Electric Vehicle Charging Stations ("EVCS") that would supplement the introduction and promotion of Electric Vehicles ("EV") in Pakistan, and provide a strong base for the growth of the EV charging infrastructure to support the development of this industry. The charging services for EV is going to involve setting up a dedicated facility that would require a dedicated infrastructure including AC/DC conversion, conductive charging system, charging connectors, plugs, inlets and socket outlets, cables, protection system and dedicated electricity supply system with dedicated connection and transformer.

38.2. Here it is pertinent mention that the National Electric Vehicle Policy 2019 requires the following;

"NEPRA shall develop a policy to enact EV tariffs and to ensure compliance with EV standards and specifications. The foremost of which are safety standards for EVs."

38.3. The Authority in view thereof, in exercise of powers under section 7 read with section 31 of NEPRA Act read with 3(1) of NEPRA Tariffs (Standards & Procedure) Rules, 1998 carried out proceedings to amend the terms and condition of XWDISCOs and KE's tariff for this purpose. During the proceedings the issues regarding tariff to be charged from electric vehicles by EVCS along-with proposed amendments in the tariff Terms & conditions for the purpose was discussed in detail.

38.4. Based on the outcome of the proceedings, the Authority has decided as under:

39. Amendment in Tariff Terms & Conditions

- ✓ In A-2 Commercial "1", following is added at the end;

"(ix) Electric Vehicle Charging Stations"

- ✓ In A-2 Commercial "2", following is added;

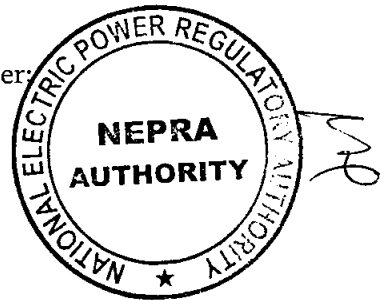
"Electric Vehicle Charging Stations shall be billed under A-2(d) tariff i.e. Rs./kWh for peak and off-peak hours. For the time being, the tariff design is with zero fixed charges, however, in future the Authority after considering the ground situation may design its tariff structure on two part basis i.e. fixed charges and variable charges."

- ✓ In addition in A-2 Commercial, following is added;

"The Electric Vehicle Charging Station shall provide "charging service" to Electric Vehicle with a maximum cap as determined by the Authority from time to time. For the time being the Cap has been determined as Rs.50/kWh. The EVCS shall be billed by DISCOS under A-2(d) tariff. However, monthly FCAs either positive or negative shall not be applicable on EVCS."

40. Addition in Schedule of Tariff

- ✓ In Schedule of Tariffs (SoTs), under A-2 General Supply Tariff - Commercial, a new tariff i.e. A-2(d) – Electric Vehicle Charging Station is added.



41. Whether the existing Tariff Terms and Conditions needs to be modified, especially with reference to the request of Telecom companies to charge "B Industrial Supply" Category tariff instead of "A-2 Commercial" category tariff?
- 41.1. The Authority during the tariff determinations of GEPCO for the FY 2019-20, on the request of Telenor regarding charging of Industrial tariff from Telecom Operators decided as under;
- "The Authority observed that the issue highlighted by the commentator M/s Telenor Pakistan regarding applicability of Industrial tariff to Cellular Mobile Operator (CMOs) pertains to all the DISCOs including K-Electric as CMOs are operating all over Pakistan, therefore, the issue requires deliberations involving all stakeholders i.e. DISCOs, CMOs, Ministry of Energy, MoT etc. The Authority noted that proceedings regarding Tariff petitions filed by all XWDISCOs for the FY 2018-19 and FY 2019-20, except GEPCO, have already been completed, therefore, the Authority has decided to consider the request of M/s Telenor as a separate issue during the proceedings for the upcoming tariff Petitions of DISCOs for the FY 2020-21 & onward".*
- 41.2. In view thereof, in the instant tariff adjustment requests of the Petitioner, the subject matter is being discussed as a separate issue.
- 41.3. The Petitioner during the hearing submitted that Telecom sector is only providing the services to consumers not value addition, therefore A-2 commercial is accurate, and there is no need of modification in tariff terms and conditions with reference to the request of telecom companies.
- 41.4. Telecom companies in their comments/ Intervention Requests have submitted that Telecom Sector including Cellular Operators (CMOs) has been declared as an Industry vide Ministry of Industries notification dated 20.04.2004, therefore, for the purpose of charging of electricity, industrial tariff may be applied to CMOs instead of currently applicable Commercial tariffs.
- 41.5. M/s NAYAtel and M/S PTCL both submitted that in line with the Telecom Policy of 2004, the Federal Government was pleased to declare Telecom sector including Cellular Operators as an "Industry" with immediate effect vide Gazette Notification dated 20.04.2004, issued by the Ministry of Industries and Production, Government of Pakistan.
- 41.6. The Ministry of Information Technology vide UO dated 16.06.2014 also endorsed the request of the Telecom Sector including CMOs to be classified as Industrial Undertaking under clause (b) of Section 2(29C) of the Income Tax Ordinance 2001.
- 41.7. In view of the above, it has been submitted that telecom companies along with other CMO's as an "Industrial Undertaking", so that "Industrial Tariff" is applied across the board to the Telecom Sector companies in Pakistan instead of "Commercial Tariff". Accordingly, it has been requested that issue of applicability of "Industrial Tariff" on Telecom Sector may be addressed and determined by the Authority, while determining the Uniform Tariff for DISCOs throughout Pakistan, including the current MYT indexation request of IESCO.
- 41.8. Ministry of IT & T vide its letter dated 18.06.2014 addressed to FBR, submitted the following;



- "... MoIT endorses the request of Telecom Industry, including Mobile Cellular Operators (CMOs) to be classified as "Industrial Undertaking" under clause (b) of section 2 (29C) of the Income Tax Ordinance 2001.
- We will appreciate if the issue is examined and finalized in light of the aforementioned Cabinet decision and the subsequent notification issued in this regard by the Ministry of Industries & Production."

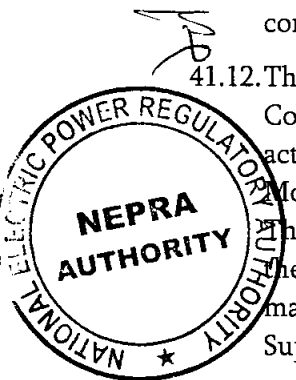
41.9. The Ministry of Information Technology and Telecommunication, vide letter dated 29.04.2020, while referring to the meeting of the Committee on issues of CMOs constituted by the Prime Minister, held on 13.04.2020 stated that like any high tech industry, Telecom Operators use electricity for their infrastructure i.e. Data Centers, exchanges, points of presence (POPs), BTSs, Mobile Switching centers, Base Station Controllers (BSCs) etc. MoIT&T accordingly requested NEPRA to implement the Government orders.

41.10. DISCOs during the hearing submitted that as per tariff terms and conditions industrial connections required motive load and Telecom companies does not fall under this category of tariff.

41.11. The Ministry of Energy (MoE) vide comments dated 02.08.2021, submitted that the government has extended various reforms, packages & incentives, inter alia; Circular Debt Management Plan (CDMP), facilitative Ease of Doing Business architecture, strategizing increase in sales to high value consumer classes, Industrial Support package (ISP), flat peak & off-peak tariff scheme for industrial units and Zero-Rated Industrial (ZRI) package. Industrial tariff is applicable to the industries production facilities and the warehouses, which are used to transmit the products to the retailer/ distribution network, are considered as commercial value addition. Telecom companies being engaged in provision of telecom services through retail/ distribution network infrastructure, may be treated as commercial value-added activity for which consumer has to pay and, therefore, the same may be continued to be served electricity under commercial tariff category. In view of above, it has been submitted that any consideration of the Authority for the relocation of telecom companies from commercial category to industrial category may not be aligned with the economic objectives underlying the various industrial packages/concessions in field. Moreover, this relocation will result in the revenue gap and put extra burden on other consumers or fiscal space.

41.12. The Ministry of Finance (MoF) vide comments dated 30.07.2021, submitted that Telecom Companies/Cellular Mobile Companies Operators are basically involved in commercial activities and electricity cost is a pass through item. Further, Telecom Companies/Cellular Mobile Companies Operators fix their consumer end tariff without consulting the Regulator. Therefore, Finance Division is further of view that electricity supply to these companies for their infrastructure units under the category "A-2 Commercial" may be continued and they may not be considered for supply of electricity under the tariff category "B-2 Industrial Supply".

41.13. Here it is pertinent to mention that subsequent to the aforementioned Intervention Requests and Comments from the Telecom companies, separate tariff petitions have also been filed by M/s PTCL, M/s Telenor and M/s Pak Telecom Mobile Company (Ufone) Limited for change in tariff category of Telecom Operators from Commercial to Industrial.





41.14. Since the said Petitions are under consideration of the Authority, therefore, the Authority has decided to issue a separate additional decision on the issue once the proceedings on the aforementioned petitions are completed.

42. Whether there should any Fixed Charges on Residential & General Services Consumers, having net metering facility?

42.1. The Petitioner during the hearing submitted that overall expenditures of solar plants are decreasing day by day due to research and development of the industries. It is convenient to review the rate of energy exported by net metering consumer in this scenario. This will create uniformly in per unit sale price of solar plant of different level. By decrease in rate of solar energy purchase from net metering consumer will give relief to the DISCOs to overcome their financial burden and a level playing field will be provided for all energy procedures from solar. It further added that charging of fixed charges on consumers having net metering facility is not justified as per contents of the issue.

42.2. The Authority observed that the net metering regime is presently at a nascent stage as current installations are a negligible portion of total generation capacity of the power system, therefore, decided not to levy any fixed charges on Residential and General services net metering consumers.

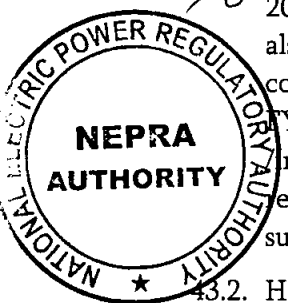
42.3. However, considering the steep rise in the Power Purchase cost of electricity coupled with stability in the prices of installing DG facilities, the Authority has decided to initiate proceedings for amendment in NEPRA (Alternative and Renewable Energy) Distributed Generation and Net Metering Regulations, 2015, for change in tariff payable by DISCOs to net metering consumers for excess energy delivered in the system.

43. Upfront Indexation/adjustment for the FY 2021-22 and FY 2022-23

43.1. The Authority understands that by the time the instant decision is notified, the FY 2021-22 would have elapsed and the FY 2022-23 would have also started. Meaning thereby that tariff indexation/adjustment for the FY 2021-22, which ideally should have been allowed in July 2021 would have become overdue, and the indexation/adjustment for the FY 2022-23 would also have become due. In view thereof, and in order to ensure timely recovery of the allowed cost to the Petitioner, the Authority has decided to allow the indexation/adjustment for the FY 2021-22 and the FY 2022-23, upfront in the instant decision as per the adjustment indexation mechanism provided in this determination. However, the impact of under/ over recovery due to indexation/ adjustment for the FY 2021-22 would be allowed / adjusted subsequently as part of future PYA.

43.2. Here it is pertinent to mention that indexation/adjustment for the FY 2021-22 and FY 2022-23 has been worked out based on the NCPI for the month of December 2020 and December 2021 respectively, for which the reference NCPI for the month of December 2019 has been used. Thus, for the purpose of filing future indexation/ adjustment requests, the Petitioner shall use the NCPI for the month of December for the respective year. The Petitioner is directed to submit its annual adjustment / indexation requests by February every year, so that adjustment / indexation for the next year is determined in timely manner.

44. The Authority considers that, after taking into account all the adjustments and assessments, as discussed in the instant determination, if the Petitioner still earns extra profits the same will be shared with the consumers and the Petitioner equally.



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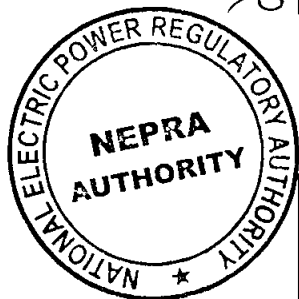
45. The Authority may review the tariff applicable to each class of consumers for rationalization or modification along-with their terms & conditions from time to time as deemed appropriate, to ensure the allowed revenue requirement of the Petitioner.

46. Order

46.1. In view of the discussion made in preceding paragraphs and accounting for the adjustments discussed above, the allowed revenue requirement of the Petitioner, for the FY 2020-21 along-with upfront indexation/adjustment for the FY 2021-22 and FY 2022-23, to the extent of its distribution function is summarized as under;

Supply of Power Tariff (SOP)		FY 2020-21	FY 2021-22	FY 2022-23
Description	Unit	SOP	SOP	SOP
Units Purchased	[MkWh]	6,589	6,589	7,041
Units Sold	[MkWh]	5,620	5,634	6,036
Units Lost	[MkWh]	969	955	1,005
Units Lost	[%]	14.70%	14.49%	14.27%
Energy Charge		38,205	38,205	62,868
Capacity Charge		48,510	48,510	70,012
Transmission Charges/Market Fee		2,584	2,584	6,382
Power Purchase Price		89,299	89,299	139,263
Wire Business		8,761	10,368	12,136
Power Purchase Price with Wire Business	[Min. Rs.]	98,060	99,667	151,399
Pay & Allowances		1,053	1,276	1,412
Post Retirement Benefits		304	334	363
Repair & Maintainance		15	18	19
Traveling allowance		39	41	50
Vehicle maintenance		15	16	19
Other expenses		116	131	142
O&M Cost	[Min. Rs.]	1,542	1,816	2,006
Depreciation		11	11	12
RORB		2	3	4
O.Income		(74)	(86)	(86)
Margin without PYA	[Min. Rs.]	1,481	1,744	1,935
Prior Year Adjustment	[Min. Rs.]	13,612	13,612	13,612
Total	[Min. Rs.]	15,094	15,356	15,548
Revenue Requirement	[Min. Rs.]	113,154	115,024	166,946
Average Tariff	[Rs./kWh]			
PPP without Wire Business Cost-Unadj.		14.85	15.73	21.55
PPP without Wire Business Cost-adj.		17.45	17.69	25.08
Margin		0.26	0.31	0.32
Distribution/Supply PYA		2.42	2.42	2.26
Average Tariff	[Rs./kWh]	20.13	20.42	27.66

46.2. The Petitioner is directed to follow the following time lines for submission of its future indexation/adjustment during the MYT control period;



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*Determination of the Authority in the matter of MYT Petition
of QESCO for Supply Tariff under the MYT Regime*

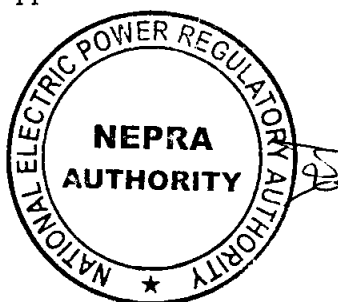
Description	ADJUSTMENTS/ INDEXATION	TIME LINES
Power Purchase Price	The Authority, keeping in view of any abnormal changes may review Power Purchase Price references along with any Quarterly adjustment	
Fuel Cost	Monthly, as per the approved mechanism. Impact of FCA on T&D losses would be adjusted on Quarterly basis.	Data to be provided by CPPA (G) by close of the month
Variable O&M	Quarterly, as per the approved Quarterly adjustment mechanism.	Request to be furnished by the Petitioner not later than a period of 07 Days on Quarterly basis.
Capacity Charges	Quarterly, as per the approved Quarterly adjustment mechanism.	Request to be furnished by the Petitioner not later than a period of 07 Days on Quarterly basis.
Transmission /UOSC & MOF Charges	Quarterly, as per the approved Quarterly adjustment mechanism.	Request to be furnished by the Petitioner not later than a period of 07 Days on Quarterly basis.
Margin		
Salaries, Wages & Benefits	Annually as per the mechanism given in the decision	Request to be submitted by Petitioner in February of every year, so that adjustment / indexation for the next year is determined in timely manner.
Post-retirement Benefit		
Other operating expenses		
Depreciation		
Return on Regulatory Asset Base		
Other Income		
Prior Year Adjustment		
KIBOR		
Return on Equity (ROE)		
Spread		
Ref. NCPL-General of December 2019 i.e. 9.49%		

Ref. NCPI-General of December 2019 i.e. 9.49%

- 46.3. Quetta Electric Supply Company Limited (QESCO), being a distribution licensee, is allowed to charge its consumers, the following "Use of system charge" (UOSC) for the FY 2022-23;

Description	For 132 kV only	For 11 kV only	For both 132kV & 11 kV
Asset Allocation	27.90%	42.93%	70.82%
Level of Losses	1.30%	10.00%	11.17%
UoSC Rs./kWh	0.54	0.92	1.52

- 46.4. Responsible to provide distribution service within its service territory on a non-discriminatory basis to all the consumers who meet the eligibility criteria laid down by the Authority,
- 46.5. To make its system available for operation by any other licensee, consistent with applicable instructions established by the system operator.
- 46.6. To follow the performance standards laid down by the Authority for distribution and transmission of electric power, including safety, health and environmental protection instructions issued by the Authority or any Governmental agency [or Provincial Government;
- 46.7. To develop, maintain and publicly make available, its investment program for satisfying its service obligations and acquiring and selling its assets
- 46.8. To disconnect the provision of electric power to a consumer for default in payment of power charges or to a consumer who is involved in theft of electric power on the request of Licensee.
- 46.9. The Petitioner shall comply with, all the existing or future applicable Rules, Regulations, orders of the Authority and other applicable documents as issued from time to time.



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47. Summary of Direction

47.1. A summary of all directions passed in this determination by the Authority are reproduced hereunder. The Authority hereby directs the Petitioner to;

- i. To ensure segment reporting with clear break-up of costs in financial statements for the Distribution and Supply Functions in light of the amended NEPRA Act for the FY 2020-21 & onward.
- ii. To complete tagging of its assets by December 31, 2022.
- iii. To provide the detail of PEPCO fee claimed in tariff till June 30, 2021 with its subsequent tariff adjustment/indexation request
- iv. To provide its working for under/(over) recovery of quarterly adjustment along-with break-up of units sold for each category for the period from FY 2019-20 till FY 2021-22, for consideration of the Authority.
- v. To share the detailed report including the schemes to cater for future demand and removal of system overloading/constraints for perusal and consideration of the Authority.
- vi. To clear all pending connections and submit a compliance report on a monthly basis.
- vii. To submit a detailed analysis regarding benefit accrued (in terms of improvement in AT&C losses) against amounts incurred under the projects of DOP and ELR.
- viii. To fully utilize allowed investment in order to improve performance standards as described in NEPRA Performance Standards (Distribution) Rules, 2005.
- ix. To prepare and submit the IGTDP including the achievements for the last five year for consideration of the Authority.
- x. To submit the details of the remedial measures taken for the achievement of performance standards (targets of SAIFI & SAIDI given by the Authority during FY 2019-20) as laid down in Performance Standards (Distribution) Rules 2005.
- xi. To submit detail of each along with benefits achieved in terms of performance improvement.
- xii. To install TOU meters for all eligible connections and submit details in this regard.
- xiii. To submit the progress regarding the installation of AMI meters.
- xiv. To immediately initiate the installation of ABC Cable, especially in high loss areas and submit a compliance report in this regard.
- xv. To carry out load shedding in accordance with Rule 4 (f) of Performance Standard (Distribution) Rules, 2005. The criteria being followed by QESCO has never been recognized by NEPRA.
- xvi. To take all the possible preventive measures to ensure no fatal accidents occur in future and improve its HSEQ performance. Detail objectives/targets of HSE are attached as Annex-A for compliance.
- xvii. To take all possible measures to facilitate consumers in terms of complaint handling, connection provision as per CSM and establish one window solutions.



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- xviii. To ensure that amount allowed under each head of investment shall not be used under any other head. The re-appropriation of Authority's allowed investment under different heads by DISCO shall not be acknowledged by the Authority and shall be adjusted accordingly. In case of any deviation under each head of the investment for more than 5% in the instant approved investment plans of DISCOs due to any regulatory decisions/interventions/approved plans, DISCOs shall be required to submit additional investment requirements for prior approval of the Authority.
- xix. The HT and LT rehabilitation proposals shall be evaluated on the basis of GIS mapping through ArcGIS and load flow analysis through SynerGee Electric. The HT & LT Plans will be based on of PMS demand forecast and consistent with the STG Plan. The STG plans should be in line with the Transmission System Expansion Plan (TSEP) approved by the Authority from time to time.
- xx. GIS mapping has to be updated periodically after execution of respective HT and LT rehabilitation proposals and network shall be regularly updated for the optimized future investments and avoid equipment failures through prudent and proactive planning practices.
- xxi. DISCOs shall ensure Open Access to all the relevant entities/licensees without discrimination and shall objectively evaluate and make available on the website of DISCO the network available capacity, current allocation of the capacity and the future investment required to be made part of distribution system planning.
- xxii. The DISCO through Market Implementation & Regulatory Affairs Department (MIRAD) shall prepare and develop the medium-term demand forecast, transmission plans and business plan for submission of the same to the Authority. All other departments of the DISCOs shall be obligated to provide their sub-plans to MIRAD for consolidation.
- xxiii. MIRAD shall ensure effective reporting and monitoring of the allowed investment on monthly, quarterly and annual basis. The main components would include STG, DOP, ELR and Commercial Improvement.
- xxiv. MIRAD shall be adequately staffed at all times as per the approved organochart for effective and efficient performance of its functions. MIRAD shall develop the dashboard for effective monitoring and reporting of above plans. The CEO along with the functional in-charge of each department will be responsible for presenting the above mentioned progress to the Authority and also submit the monthly, quarterly and annual progress reports in the matter.
- xxv. DISCO shall ensure Data Standardization for load forecasting and coordinate with PITC for auto retrieval and analysis of data for demand forecasts and use a software based on a modern language instead of Fox-Pro based software for accurate and reliable demand forecasts.
- MIRAD shall undertake an exercise to identify and accurately use the data of captive consumers in the demand forecasts and ensure better coordination with local agencies/housing colonies/industrial consumers for potential upcoming demand for better and reliable demand forecasts.

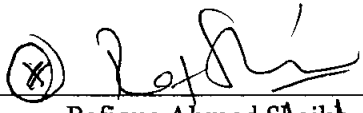
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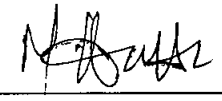


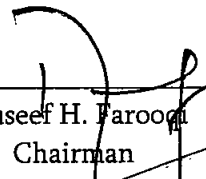


- xxvii. To submit its annual adjustment / indexation requests by February every year, so that adjustment / indexation for the next year is determined in timely manner.
48. The determination of the Authority along-with annex-I, I-A, II, III, IV, V and A, is hereby intimated to the Federal Government for notification in the official gazette in terms of section 31(7) of the Regulation of Generation, Transmission and Distribution of Electric Power Act 1997.

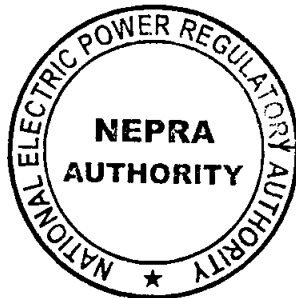
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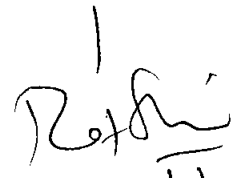
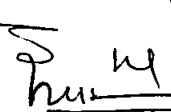

Rafique Ahmed Shaikh
Member
2/6/22


Engr. Maqsood Anwar Khan
Member


Tauseef H. Farooqi
Chairman

(X) My additional note is attached herewith.




2/6/22

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Additional Note:

At the outset, the multi-year tariff determination which I am signing is for the control period from financial year 2020-21 to 2024-25; the two years of its control period have already been lapsed. Timely tariff determinations depend on submission of the petition by DISCOs within the given time. However, in sheer disregard of timelines given in the NEPRA Guidelines for Consumer End Tariff-2015 as well as the Authority's direction, DISCOs have failed to submit their petitions in timely manner which reflects their indifference to the regulatory discipline which ultimately cause suffering for the power sector as well as the end-consumers.

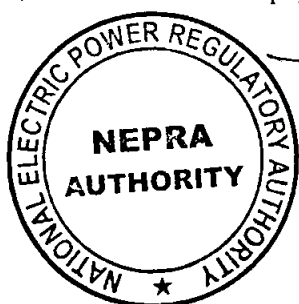
For the period from July, 2020, beyond the tariff control period of last determined tariff, the Authority has been issuing the quarterly adjustments under the given mechanism. Such adjustments, though covers the cost increase to larger extent but not suffice to cover the entire financial impact. Therefore, I am of the opinion that quarterly adjustments beyond the tariff control period are highly undesirable and should not be allowed.

This is a fact on record that NEPRA has been allowing huge amount to DISCOs under the head of investments for up-gradation of their infrastructure, however, DISCOs could not be able to improve their T&D losses and quality of supply corresponding to the allowed investment. Therefore, comprehensive audit of DISCOs is necessary to check the utilization of funds allowed under the head of investments.

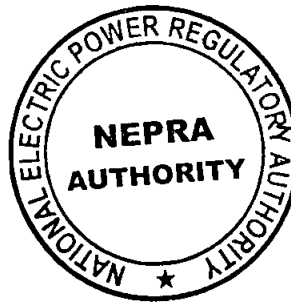
The overall recovery position of DISCOs is also below the desired level. Resultantly, the country is facing circular debt and despite certain bail out packages, the circular debt is on the rise which currently stands at more than Rs. 2.5 trillion. To get rid of the circular debt issue, immediate actions are needed which may include the structural changes in ownership and control of the DISCOs.

This has also been highlighted in the last many years that the performance of DISCOs has been marred with serious governance issues. Load shedding on account of Aggregate Technical and Commercial (AT&C) losses is one of the classic example of poor governance. Instead of improving their distribution network, checking the theft of electricity and improving the recovery, DISCOs have found an easy way of indiscriminate load shed at feeder level. This AT&C base load shedding is a stumbling block in improving the sales growth of Discos. This is a fact that sufficient generation capacity is available in the country, mostly on take or pay basis. The AT&C base load shedding is suffering the consumers in shape of not having the electricity as well as increased electricity cost due to payment of capacity payment of unutilized capacity. I am of the considered view that the burden of capacity payments due to underutilization of power plants caused by DISCO level load shedding should not be passed on to the consumers.

DISCOs are allowed sizeable amount for payments on account of pension and other post-retirement benefits which is being increased year on year basis. Although, under the agreed terms and conditions, these payments are binding but not a direct cost of product, i.e. generated electricity. Had the pension fund been established earlier in a timely manner to meet this obligation, the burden of these payments on consumers could have been avoided.



The present centralized control of DISCOs has shown its inherent tendency for inefficiency and unless developed as independent corporate entities, autonomous in their business decisions, DISCOs will continue to burden the power sector. Therefore, immediate actions are needed to revamp DISCOs and free them of centralized control. In my view, this is time to either privatize DISCOs or transit to public private partnership to run these entities as independent business in a competitive environment. The involvement of provincial governments may help in improving the governance of DISCOs especially in controlling electricity theft and improving the recovery.



2/6/22

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FUEL PRICE ADJUSTMENT MECHANISM

Actual variation in fuel cost component against the reference fuel cost component for the corresponding months will be determined according to the following formula

$$\text{Fuel Price variation} = \text{Actual Fuel Cost Component} - \text{Reference Fuel Cost Component}$$

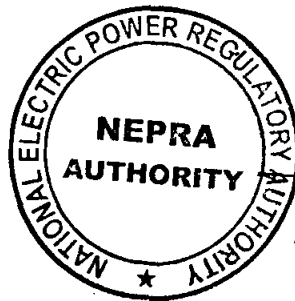
Where:

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

Actual fuel cost component is the fuel cost component in the pool price on which the DISCOs will be charged by CPPA (G) in a particular month; and

Reference fuel cost component is the fuel cost component for the corresponding month projected for the purpose of tariff determination as per Annex-IV of the determination;

The fuel price adjustment determined by the Authority shall be shown separately in the bill of the consumer and the billing impact shall be worked out on the basis of consumption by the consumer in the respective month.



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QUARTERLY ADJUSTMENT MECHANISM

Quarterly adjustment shall be the Actual variation in Power Purchase Price (PPP), excluding Fuel Cost Component, against the reference Power Purchase Price component and the impact of T&D losses on FCA, for the corresponding months and shall be determined according to the following formula;

$$\text{Quarterly PPP}_{(\text{Adj})} = \frac{\text{PPP}_{(\text{Actual})} (\text{excluding Fuel cost}) - \text{PPP}_{(\text{Recovered})} (\text{excluding Fuel cost})}{\text{Where;}}$$

Where;

PPP_(Actual) is the actual cost, excluding Fuel cost, invoiced by CPPA-G to XWDISCOs, adjusted for any cost disallowed by the Authority.

PPP_(Recovered) is the amount recovered based on reference rate in Rs./kWh, excluding fuel cost, as per the Annex-IV of the XWDISCOs determination that remained notified during the period.

Impact of T&D losses on FCA

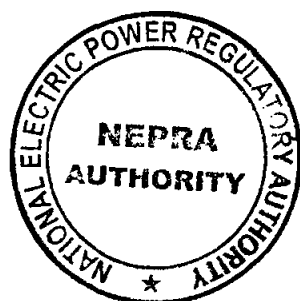
$$= \frac{\text{Monthly FCA allowed}_{(\text{Rs./kWh})} \times \text{Actual units Purchase} \times \% \text{ T\&D losses}}{\text{Where;}}$$

Where;

Monthly FCA allowed _(Rs./kWh) is the FCA allowed by the Authority for the respective months of the concerned period.

T&D Loss % is percentage of T&D losses that remained notified during the period.

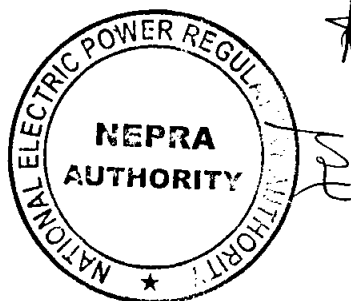
The sum of amounts so worked for each month of the Quarter shall be divided by the Projected units to be sold as determined by the Authority to work out Rs./kWh Quarterly adjustment.



Quetta Electric Supply Company Limited (QESCO)
Estimated Sales Revenue on the Basis of New Tariff

Description	Sales		Revenue			Base Tariff		PYA 2021		Total Tariff	
	GWh	% Mix	Fixed Charge	Variable Charge	Total	Fixed Charge	Variable Charge	Amount	Variable Charge	Fixed Charge	Variable Charge
			Min. Rs.	Rs./kWh		Rs./kWh	Rs./kWh	Min. Rs.	Rs./kWh	Rs./kWh	Rs./kWh
Residential											
For peak load requirement less than 5 kW											
Up to 50 Units - Life Line	9	0.15%	-	44	44		5.00	-	-		5.00
51-100 units - Life Line	30	0.50%	-	466	466		18.59	68	2.27		20.86
01-100 Units	211	3.49%	-	3,917	3,917		18.59	478	2.27		20.86
101-200 Units	33	0.54%	-	677	677		20.59	75	2.27		22.86
Un-Protected	01-100 Units	25	0.41%	523	523		18.59	56	2.27		20.86
	101-200 Units	74	1.22%	1,801	1,801		20.59	188	2.27		22.86
	201-300 Units	128	2.11%	3,178	3,178		24.91	290	2.27		27.18
	301-400 Units	85	1.41%	2,232	2,232		26.15	194	2.27		28.42
	401-500 Units	40	0.66%	1,051	1,051		26.15	90	2.27		28.42
	501-600 Units	21	0.35%	585	585		26.15	48	2.27		28.42
	601-700 Units	13	0.22%	378	378		26.15	30	2.27		28.42
	Above 700 Units	57	0.95%	1,691	1,691		29.59	130	2.27		31.86
	For peak load requirement exceeding 5 kW	0									
Time of Use (TOU) - Peak	4	0.07%	-	118	118		28.59	9	2.27		30.86
Time of Use (TOU) - Off-Peak	14	0.23%	-	296	296		21.21	32	2.27		23.48
Temporary Supply	0	0.00%	-	0	0		29.59	0	2.27		31.86
Total Residential	743	12.31%	-	16,961	16,961			1,667			
Commercial - A2											
For peak load requirement less than 5 kW	88	1.45%	-	2,240	2,240		25.57	199	2.27		27.84
For peak load requirement exceeding 5 kW											
Regular	0	0.00%	1	4	5	500	23.59	0	2.29	500	25.88
Time of Use (TOU) - Peak	17	0.28%	-	490	490		28.59	39	2.30		30.89
Time of Use (TOU) - Off-Peak	70	1.16%	244	1,570	1,814	500	22.49	158	2.27	500	24.76
Temporary Supply	0	0.01%	-	9	9		25.57	1	2.29		27.86
Electric Vehicle Charging Station	0	0.00%	-	2	2		25.00	-			25.00
Total Commercial	175	2.90%	244	4,314	4,558			398			
General Services-A3											
	290	4.81%	-	7,438	7,438		25.61	665	2.29		27.90
Industrial											
B1	0	0.00%	-	6	6		24.12	1	2.27		26.39
B1 Peak	2	0.04%	-	60	60		28.01	5	2.27		30.28
B1 Off Peak	11	0.19%	-	248	248		21.91	26	2.27		24.18
B2	0	0.00%	0	0	0	500	24.01	0	2.27	500	26.28
B2 - TOU (Peak)	18	0.30%	-	505	505		28.01	41	2.27		30.28
B2 - TOU (Off-peak)	97	1.61%	466	2,081	2,547	500	21.41	221	2.27	500	23.68
B3 - TOU (Peak)	10	0.16%	-	268	268		28.01	22	2.27		30.28
B3 - TOU (Off-peak)	104	1.72%	180	2,370	2,550	460	22.81	236	2.27	460	25.08
B4 - TOU (Peak)	0	0.00%	-	-	-		28.01	-	2.27		30.28
B4 - TOU (Off-peak)	0	0.00%	-	-	-	440	22.61	-	2.27	440	24.88
Temporary Supply	0	0.00%	-	-	-		27.01	-	2.27		29.28
Total Industrial	242	4.02%	646	5,539	6,185			550			
Single Point Supply											
C1(a) Supply at 400 Volts-less than 5 kW	0	0.00%	-	1	1		25.20	0	2.27		27.47
C1(b) Supply at 400 Volts-exceeding 5 kW	1	0.02%	24	35	59	500	25.00	3	2.27	500	27.27
Time of Use (TOU) - Peak	5	0.09%	-	149	149		28.59	12	2.27		30.86
Time of Use (TOU) - Off-Peak	23	0.39%	53	512	565	500	21.99	53	2.27	500	24.26
C2 Supply at 11 kV	2	0.04%	4	59	63	460	24.90	5	2.27	500	27.17
Time of Use (TOU) - Peak	24	0.40%	-	683	683		28.59	54	2.27		30.86
Time of Use (TOU) - Off-Peak	109	1.80%	177	2,547	2,723	460	23.39	252	2.31	460	25.70
C3 Supply above 11 kV	0	0.00%	-	-	-	440	24.79	-	2.27	440	27.06
Time of Use (TOU) - Peak	0	0.00%	-	-	-		28.59	-	2.27		30.86
Time of Use (TOU) - Off-Peak	0	0.00%	-	-	-	440	23.19	-	2.27	440	25.46
Total Single Point Supply	165	2.73%	258	3,985	4,243			379			
Agricultural Tube-wells - Tariff D											
Scarp	0	0.00%	-	0	0		25.20	0	2.28		27.46
Time of Use (TOU) - Peak	0	0.00%	-	7	7		28.59	1	2.28		30.85
Time of Use (TOU) - Off-Peak	2	0.03%	1	43	44	200	21.99	4	2.27	200	24.26
Agricultural Tube-wells	4403	72.95%	2,523	110,968	113,491	200	25.20	9,917	2.25	200	27.45
Time of Use (TOU) - Peak	0	0.00%	-	4	4		28.59	0	2.25		30.84
Time of Use (TOU) - Off-Peak	1	0.01%	1	11	12	200	21.99	1	2.25	200	24.24
Total Agricultural	4,406	73.00%	2,526	111,033	113,558			9,923			
Public Lighting - Tariff G	13	0.22%	-	386	386		28.89	30	2.27		31.16
Residential Colonies	0	0.00%	-	5	5		29.19	0	2.27		31.46
Grand Total	6,036	100.00%	3,674	149,660	153,333			13,613			

Note: The PYA 2021 column shall cease to exist after 1 year of notification of the instant decision.



**SCHEDULE OF ELECTRICITY TARIFFS
FOR QUETTA ELECTRIC SUPPLY COMPANY (QESCO)**

A-1 GENERAL SUPPLY TARIFF - RESIDENTIAL

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES	VARIABLE CHARGES		FYA 2021		Total Variable Charges	
		Rs/kw/M	Rs/kWh		Rs/kWh		Rs/kWh	
		A	B		C		D	
a) For Sanctioned load less than 5 kW		-	5.00		-		5.00	
i Up to 50 Units - Life Line		-	18.59		2.27		20.86	
ii 51 - 100 Units - Life Line		-	18.59		2.27		20.86	
iii 001 - 100 Units		-	20.59		2.27		22.86	
iv 101 - 200 Units		-	18.59		2.27		20.86	
v 001 - 100 Units		-	20.59		2.27		22.86	
vi 101 - 200 Units		-	24.91		2.27		27.18	
iv 201 - 300 Units		-	26.15		2.27		28.42	
viii 301 - 400 Units		-	26.15		2.27		28.42	
ix 401 - 500 Units		-	26.15		2.27		28.42	
x 501 - 600 Units		-	26.15		2.27		28.42	
xi 601 - 700 Units		-	29.59		2.27		31.86	
vi Above 700 Units		-						
b) For Sanctioned load 5 kW & above			Peak	Off-Peak	Peak	Off-Peak	Peak	Off-Peak
Time Of Use		-	28.59	21.21	2.27	2.27	30.86	23.48

As per Authority's decision only protected residential consumers will be given the benefit of one previous slab.

As per Authority's decision, residential life line consumer will not be given any slab benefit.

Under tariff A-1, there shall be minimum monthly customer charge at the following rates even if no energy is consumed.

a) Single Phase Connections:

Rs. 75/- per consumer per month

b) Three Phase Connections:

Rs. 150/- per consumer per month

A-2 GENERAL SUPPLY TARIFF - COMMERCIAL

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES	VARIABLE CHARGES		FYA 2021		Total Variable Charges	
		Rs/kw/M	Rs/kWh		Rs/kWh		Rs/kWh	
		A	B		C		D	
a) For Sanctioned load less than 5 kW		500.00	25.57		2.27		27.84	
b) For Sanctioned load 5 kW & above			23.59		2.29		25.88	
			Peak	Off-Peak	Peak	Off-Peak	Peak	Off-Peak
c) Time Of Use		500.00	28.59	22.49	2.30	2.27	30.89	24.76
d) Electric Vehicle Charging Station			25.00				25.00	

Under tariff A-2 (a), there shall be minimum monthly charges at the following rates even if no energy is consumed.

a) Single Phase Connections:

Rs. 175/- per consumer per month

b) Three Phase Connections:

Rs. 350/- per consumer per month

Fixed Charges shall be billed based on 50% of sanctioned Load or Actual MDI for the month which ever is higher. In such case there would be no minimum monthly charges even if no energy is consumed.

A-3 GENERAL SERVICES

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES	VARIABLE CHARGES		FYA 2021		Total Variable Charges	
		Rs/kw/M	Rs/kWh		Rs/kWh		Rs/kWh	
		A	B		C		D	
a) General Services		-	25.61		2.29		27.90	

Under tariff A-3, there shall be minimum monthly charges at the following rates even if no energy is consumed.

a) Single Phase Connections:

Rs. 175/- per consumer per month

b) Three Phase Connections:

Rs. 350/- per consumer per month

B INDUSTRIAL SUPPLY TARIFFS

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES	VARIABLE CHARGES		FYA 2021		Total Variable Charges	
		Rs/kw/M	Rs/kWh		Rs/kWh		Rs/kWh	
		A	B		F		D	
B1	Up to 25 kW (at 400/230 Volts)	-	24.12		2.27		26.39	
B2(a)	exceeding 25-500 kW (at 400 Volts)	500.00	24.01		2.27		26.28	
	Time Of Use		Peak	Off-Peak	Peak	Off-Peak	Peak	Off-Peak
B1 (b)	Up to 25 KW		28.01	21.91	2.27	2.27	30.28	24.18
B2(b)	exceeding 25-500 kW (at 400 Volts)	500.00	28.01	21.41	2.27	2.27	30.28	23.68
B3	For All Loads up to 5000 kW (at 11,33 kV)	460.00	28.01	22.81	2.27	2.27	30.28	25.08
B4	For All Loads (at 66,132 kV & above)	440.00	28.01	22.61	2.27	2.27	30.28	24.88

For B1 & B1(b) consumers there shall be a fixed minimum charge of Rs. 350 per month.

Fixed Charges shall be billed based on 50% of sanctioned Load or Actual MDI for the month which ever is higher. In such case there would be no minimum monthly charges even if no energy is consumed.

C - SINGLE-POINT SUPPLY

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES	VARIABLE CHARGES		FYA 2021		Total Variable Charges	
		Rs/kw/M	Rs/kWh		Rs/kWh		Rs/kWh	
		A	B		C		D	
C -1	For supply at 400/230 Volts							
a)	Sanctioned load less than 5 kW	-	25.20		2.27		27.47	
b)	Sanctioned load 5 kW & up to 500 kW	500.00	25.00		2.27		27.27	
C -2(a)	For supply at 11,33 kV up to and including 5000 kW	460.00	24.90		2.27		27.17	
C -3(a)	For supply at 66 kV & above and sanctioned load above 5000 kW	440.00	24.79		2.27		27.06	
	Time Of Use		Peak	Off-Peak	Peak	Off-Peak	Peak	Off-Peak
C -1(c)	For supply at 400/230 Volts 5 kW & up to 500 kW	500.00	28.59	21.99	2.27	2.27	30.86	24.26
C -2(b)	For supply at 11,33 kV up to and including 5000 kW	460.00	28.59	23.39	2.27	2.31	30.86	25.70
C -3(b)	For supply at 66 kV & above and sanctioned load above 5000 kW	440.00	28.59	23.19	2.27	2.27	30.86	25.46

Fixed Charges shall be billed based on 50% of sanctioned Load or Actual MDI for the month which ever is higher.

**SCHEDULE OF ELECTRICITY TARIFFS
FOR QUETTA ELECTRIC SUPPLY COMPANY (QESCO)
D - AGRICULTURE TARIFF**

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES	VARIABLE CHARGES		PYA 2021	Total Variable Charges	
		Rs/kW/M	Rs/kWh		Rs/kWh	Rs/kWh	
		A	B		C	D	
D-1(a)	SCARP less than 5 kW	-	25.20		2.26	27.46	
D-2 (a)	Agricultural Tube Wells	200.00	25.20		2.25	27.45	
			Peak	Off-Peak	Peak	Off-Peak	Peak
D-1(b)	SCARP 5 kW & above	200.00	28.59	21.99	2.26	2.27	30.85
D-2 (b)	Agricultural 5 kW & above	200.00	28.59	21.99	2.25	2.25	30.84

Under this tariff, there shall be minimum monthly charges Rs.2000/- per consumer per month, even if no energy is consumed.

Note:- The consumers having sanctioned load less than 5 kW can opt for TOU metering.

E - TEMPORARY SUPPLY TARIFFS

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES	VARIABLE CHARGES		PYA 2021	Total Variable Charges	
		Rs/kW/M	Rs/kWh		Rs/kWh	Rs/kWh	
		A	B		C	D	
E-1(i)	Residential Supply	-	29.59		2.27	31.86	
E-1(ii)	Commercial Supply	-	25.57		2.29	27.86	
E-2	Industrial Supply	-	27.01		2.27	29.28	

For the categories of E-1(i&ii) above, the minimum bill of the consumers shall be Rs. 50/- per day subject to a minimum of Rs.500/- for the entire period of supply, even if no energy is consumed.

F - SEASONAL INDUSTRIAL SUPPLY TARIFF

125% of relevant industrial tariff

Note: Tariff-F consumers will have the option to convert to Regular Tariff and vice versa. This option can be exercised at the time of a new connection or at the beginning of the season. Once exercised, the option remains in force for at least one year.

G- PUBLIC LIGHTING

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES	VARIABLE CHARGES		PYA 2021	Total Variable Charges	
		Rs/kW/M	Rs/kWh		Rs/kWh	Rs/kWh	
		A	B		C	D	
	Street Lighting	-	28.89		2.27	31.16	

Under Tariff G, there shall be a minimum monthly charge of Rs.500/- per month per kW of lamp capacity installed.

H - RESIDENTIAL COLONIES ATTACHED TO INDUSTRIAL PREMISES

Sr. No.	TARIFF CATEGORY / PARTICULARS	FIXED CHARGES	VARIABLE CHARGES		PYA 2021	Total Variable Charges	
		Rs/kW/M	Rs/kWh		Rs/kWh	Rs/kWh	
		A	B		C	D	
	Residential Colonies attached to industrial premises	-	29.19		2.27	31.46	

Note: The PYA 2021 column shall cease to exist after 1 year of notification of the instant decision.



Annex - IV

Description	July	August	September	October	November	December	January	February	March	April	May	June	Total
Units Purchased by DISCOs (GWh)	712	657	585	553	516	535	512	475	534	616	664	680	7,041

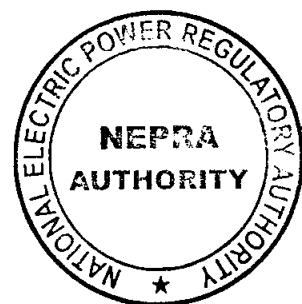
Rs./kWh

Fuel Cost Component	9.7441	9.8934	9.9114	9.1705	6.0762	9.3193	10.5541	7.2120	8.7122	8.3875	7.8281	7.5084	8.7201
Variable O&M	0.2198	0.2179	0.2288	0.2350	0.1599	0.2032	0.2433	0.1906	0.1935	0.2069	0.2031	0.2013	0.2092
Capacity	6.0583	7.0154	8.2628	10.0598	13.2677	12.8939	13.0637	13.5462	11.6730	9.4477	8.2433	9.2379	9.9439
UoS	0.6542	0.7520	0.8600	0.9776	1.1613	1.1290	1.1693	1.1319	1.0861	0.7462	0.6933	0.7903	0.9065
Total PPP in Rs./kWh	16.6764	17.8788	19.2630	20.4428	20.6651	23.5454	25.0304	22.0808	21.6648	18.7883	16.9678	17.7378	19.7796

Rs. in million

Fuel Cost Component	6,941	6,502	5,802	5,074	3,136	4,984	5,406	3,429	4,654	5,164	5,199	5,105	61,396
Variable O&M	157	143	134	130	83	109	125	91	103	127	135	137	1,473
Capacity	4,315	4,611	4,837	5,566	6,848	6,895	6,691	6,441	6,235	5,817	5,475	6,281	70,012
UoS	466	494	503	541	599	604	599	538	580	459	460	537	6,382
Total PPP in Rs./kWh	11,878	11,750	11,276	11,311	10,665	12,591	12,820	10,499	11,573	11,568	11,269	12,060	139,263

It is clarified that PPP is pass through for all the DISCOs and its monthly references would continue to exist irrespective of the financial year, unless the new SOT is revised and notified by the GoP



**TERMS AND CONDITIONS OF TARIFF
(FOR SUPPLY OF ELECTRIC POWER TO CONSUMERS BY DISTRIBUTION
LICENSEES)**

PART-I

GENERAL DEFINITIONS

The Company, for the purposes of these terms and conditions means Quetta Electric Supply Company (QESCO) engaged in the business of distribution/supply of electricity within the territory mentioned in the licence granted to it for this purpose.

1. "Month or Billing Period", unless otherwise defined for any particular tariff category, means a billing month of 30 days or less reckoned from the date of last meter reading.
2. "Minimum Charge", means a charge to recover the costs for providing customer service to consumers even if no energy is consumed during the month.
3. "Fixed Charge" means the part of sale rate in a two-part tariff to be recovered on the basis of "Billing Demand" in kilowatt on monthly basis.
4. "Billing Demand" means the 50% of the sanction load or Actual maximum demand recorded in a month, whichever is higher, except in the case of agriculture tariff D2 where "Billing Demand" shall mean the sanctioned load.
5. "Variable Charge" means the sale rate per kilowatt-hour (kWh) as a single rate or part of a two-part tariff applicable to the actual kWh consumed by the consumer during a billing period.
6. "Maximum Demand" where applicable, means the maximum of the demand obtained in any month measured over successive periods each of 30 minutes' duration except in the case of consumption related to Arc Furnaces, where "Maximum Demand" shall mean the maximum of the demand obtained in any month measured over successive periods each of 15 minutes' duration.
7. "Sanctioned Load" where applicable means the load in kilowatt as applied for by the consumer and allowed/authorized by the Company for usage by the consumer.
8. "Power Factor" means the ratio of kWh to KVAh recorded during the month or the ratio of kWh to the square root of sum of square of kWh and kVARh,.
9. Point of supply means metering point where electricity is delivered to the consumer.
10. Peak and Off Peak hours for the application of Time Of Use (TOU) Tariff shall be the following time periods in a day:

	* PEAK TIMING	OFF-PEAK TIMING
Dec to Feb (inclusive)	5 PM to 9 PM	Remaining 20 hours of the day
Mar to May (inclusive)	6 PM to 10 PM	-do-
June to Aug (inclusive)	7 PM to 11 PM	-do-
Sept to Nov (inclusive)	6 PM to 10 PM	-do-

* To be duly adjusted in case of day light time saving

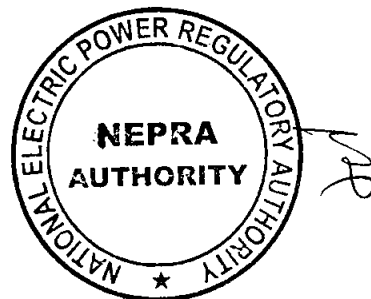
11. "Supply", means the supply for single-phase/three-phase appliances inclusive of both general and motive loads subject to the conditions that in case of connected or sanctioned load 5 kW and above supply shall be given at three-phase.
12. "Consumer" as defined in NEPRA Act.



13. "Charitable Institution" means an institution, which works for the general welfare of the public on no profit basis and is registered with the Federal or Provincial Government as such and has been issued tax exemption certificate by Federal Board of Revenue (FBR).
14. NTDC means the National Transmission and Despatch Company.
15. CPPA(G) means Central Power Purchasing Agency Guarantee Limited (CPPA)(G).
16. The "Authority" means "The National Electric Power Regulatory Authority (NEPRA)" constituted under the Regulation of Generation, Transmission and Distribution of Electric Power Act.

GENERAL CONDITIONS

1. "The Company shall render bills to the consumers on a monthly basis or less on the specific request of a consumer for payment by the due date.
2. The Company shall ensure that bills are delivered to consumers at least seven days before the due date. If any bill is not paid by the consumer in full within the due date, a Late Payment Charge of 10% (ten percent) shall be levied on the amount billed excluding Govt. tax and duties etc. In case bill is not served at least seven days before the due date then late payment surcharge will be levied after 7th day from the date of delivery of bill.
3. The supply provided to the consumers shall not be available for resale.
4. In the case of two-part tariff average Power Factor of a consumer at the point of supply shall not be less than 90%. In the event of the said Power factor falling below 90%, the consumer shall pay a penalty of two percent increase in the fixed charges determined with reference to maximum demand during the month corresponding to one percent decrease in the power factor below 90%.



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PART-II

(Definitions and Conditions for supply of power specific to each consumer category)

A-1 RESIDENTIAL

Definition

"Life Line Consumer" means those residential consumers having single phase electric connection with a sanctioned load up to 1 kW.

The lifeline consumers to include residential Non-Time of Use (Non-ToU) consumers having maximum of last twelve months and current month's consumption ≤ 100 units; two rates for ≤ 50 and ≤ 100 units will continue.

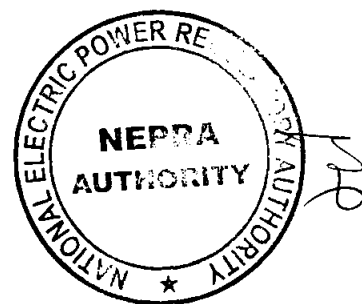
"Protected consumers" mean Non-ToU residential consumers consuming ≤ 200 kWh per month consistently for the past 6 months.

Residential Non-ToU consumers not falling under the protected category would be categorized under "Un-protected consumer category".

1. This Tariff is applicable for supply to;
 - i) Residences,
 - ii) Places of worship,
2. Consumers having sanctioned load less than 5 kW shall be billed on single-part kWh rate i.e. A-1(a) tariff.
3. All new consumers having sanctioned load 5 kW and above shall be provided T.O.U metering arrangement and shall be billed on the basis of tariff A-1(b) as set out in the Schedule of Tariff.
4. All existing consumers having sanctioned load 5 kW and above shall be provided T.O.U metering arrangement and converted to A- 1(b) Tariff by the Company.

A-2 COMMERCIAL

1. This tariff is applicable for supply to commercial offices and commercial establishments such as:
 - i) Shops/Flower Nurseries/Cold Storage
 - ii) Hotels, Hostels and Restaurants,
 - iii) Petrol Pumps and Service Stations,
 - iv) Compressed Natural Gas filling stations,
 - v) Private Hospitals/Clinics/Dispensaries,
 - vi) Places of Entertainment, Cinemas, Theaters, Clubs;
 - vii) Guest Houses/Rest Houses,
 - viii) Office of Lawyers, Solicitors, Law Associates and Consultants etc.
 - ix) Electric Vehicle Charging Stations (EVCS)
2. Electric Vehicle Charging Stations shall be billed under A-2(d) tariff i.e. Rs./kWh for peak and off-peak hours. For the time being, the tariff design is with zero fixed charges, however, in future the Authority after considering the ground situation may design its tariff structure on two part basis i.e. fixed charges and variable charges.



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3. The Electric Vehicle Charging Station shall provide "charging service" to Electric Vehicle with a maximum cap as determined by the Authority from time to time. For the time being the Cap has been determined as Rs.50/kWh. The EVCS shall be billed by DISCOS under A-2(d) tariff. However, monthly FCAs either positive or negative shall not be applicable on EVCS.
4. Consumers under tariff A-2 having sanctioned load of less than 5 kW shall be billed under a Single-Part kWh rate A-2(a)
5. All existing consumers under tariff A-2 having sanctioned load 5 kW and above shall be billed on A-2(b) tariff till such time that they are provided T.O.U metering arrangement; thereafter such consumers shall be billed on T.O.U tariff A-2(c).
6. The existing and prospective consumers having load of 5 kW and above shall be provided T.O.U metering arrangement and shall be billed under tariff A-2(c).

A-3 GENERAL SERVICES

1. This tariff is applicable to;
 - i. Approved religious and charitable institutions
 - ii. Government and Semi-Government offices and Institutions
 - iii. Government Hospitals and dispensaries
 - iv. Educational institutions
 - v. Water Supply schemes including water pumps and tube wells other than those meant for the irrigation or reclamation of Agriculture land.

Consumers under General Services (A-3) shall be billed on single-part kWh rate i.e. A-3(a) tariff.

B INDUSTRIAL SUPPLY

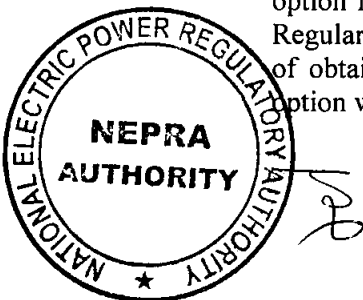
Definitions

1. "Industrial Supply" means the supply for bona fide industrial purposes in factories including the supply required for the offices inside the premises and for normal working of the industry.
2. For the purposes of application of this tariff an "Industry" means a bona fide undertaking or establishment engaged in manufacturing, value addition and/or processing of goods.
3. This Tariff shall also be available for consumers having single-metering arrangement such as;
 - i) Poultry Farms
 - ii) Fish Hatcheries, fish farms, fish nurseries & Breeding Farms and
 - iii) Software houses

Conditions

An industrial consumer shall have the option, to switch over to seasonal Tariff-F, provided his connection is seasonal in nature as defined under Tariff-F, and he undertakes to abide by the terms and conditions of Tariff-F and pays the difference of security deposit rates previously deposited and those applicable to tariff-F at the time of acceptance of option for seasonal tariff. Seasonal tariff will be applicable from the date of commencement of the season, as specified by the customers at the time of submitting the option for Tariff-F. Tariff-F consumers will have the option to convert to corresponding Regular Industrial Tariff category and vice versa. This option can be exercised at the time of obtaining a new connection or at the beginning of the season. Once exercised, the option will remain in force for at least one year.

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B-1 SUPPLY AT 400 VOLTS THREEPHASE AND/OR 230 VOLTS SINGLE PHASE

1. This tariff is applicable for supply to Industries having sanctioned load upto 25 kW.
2. Consumers having sanctioned load upto 25 kW shall be billed on single-part kWh rate.
3. Consumers under tariff B-1 having sanctioned load of less than 5 kW shall be billed under a Single-Part kWh rate. However, B-1 consumers having sanctioned load of less than 5 kW may opt for ToU meter
4. The existing and prospective consumers having load of 5 kW and above shall be provided T.O.U metering arrangement and shall be billed under tariff B1(b).

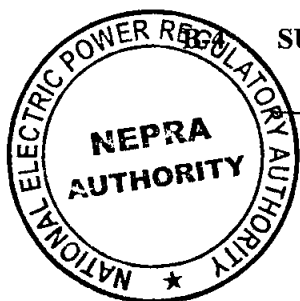
B-2 SUPPLY AT 400 VOLTS

1. This tariff is applicable for supply to Industries having sanctioned load of more than 25 kW up to and including 500 kW.
2. All existing consumers under tariff B-2 shall be provided T.O.U metering arrangement by the Company and converted to B-2(b) Tariff.
3. All new applicants i.e. prospective consumers applying for service to the Company shall be provided T.O.U metering arrangement and charged according to the applicable T.O.U tariff.

B-3 SUPPLY AT 11 kV AND 33 kV

1. This tariff is applicable for supply to Industries having sanctioned load of more than 500 kW up to and including 5 MW and also for Industries having sanctioned load of 500 kW or below who opt for receiving supply at 11 kV or 33 kV.
2. The consumers may be allowed extension of load beyond 5MW upto 7.5MW from the DISCO's owned grid station subject to availability of load in the grid and capacity in the 11kV existing dedicated feeder. In such a case the consumer will bear 100% grid sharing charges including transmission line charges and 100% cost of land proportionate to load. However, only such consumers be allowed extension of load beyond 5MW upto 7.5MW whose connection is at least three (3) years old. While allowing extension in load, the DISCOs shall ensure that no additional line losses are incurred and additional loss, if any, shall be borne by the respective consumers.
3. If, for any reason, the meter reading date of a consumer is altered and the acceleration/retardation in the date is up to 4 days, no notice shall be taken of this acceleration or retardation. But if the date is accelerated or retarded by more than 4 days, the fixed charges shall be assessed on proportionate basis for the actual number of days between the date of the old reading and the new reading.
4. The supply under this Tariff shall not be available to a prospective consumer unless he provides, to the satisfaction and approval of the Company, his own Transformer, Circuit Breakers and other necessary equipment as part of the dedicated distribution system for receiving and controlling the supply, or, alternatively pays to the Company for all apparatus and equipment if so provided and installed by the Company. The recovery of the cost of service connection shall be regulated by the Eligibility Criteria laid down by the Authority read with Consumer Service Manual (CSM).
5. All B-3 Industrial Consumers shall be billed on the basis of T.O.U tariff given in the Schedule of Tariff.

SUPPLY AT 66 kV, 132 kV AND ABOVE



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1. This tariff is applicable for supply to Industries for all loads of more than 5MW receiving supply at 66 kV, 132 kV and above and also for Industries having load of 5MW or below who opt to receive supply at 66 kV or 132 kV and above.
2. If, for any reason, the meter reading date of a consumer is altered and the acceleration/retardation in the date is up to 4 days, no notice shall be taken of this acceleration or retardation. But if the date is accelerated or retarded by more than 4 days, the fixed charges shall be assessed on proportionate basis for the actual number of days between the date of the old reading and the new reading.
3. If the Grid Station required for provision of supply falls within the purview of the dedicated system under the Eligibility Criteria laid down by the Authority read with CSM, the supply under this Tariff shall not be available to such a prospective consumer unless he provides, to the satisfaction and approval of the Company, an independent grid station of his own including Land, Building, Transformers, Circuit Breakers and other necessary equipment and apparatus as part of the dedicated distribution system for receiving and controlling the supply, or, alternatively, pays to the Company for all such Land, Building, Transformers, Circuit Breakers and other necessary equipment and apparatus if so provided and installed by the Company. The recovery of cost of service connection shall be regulated by Eligibility Criteria laid down by the Authority read with CSM.
4. All B-4 Industrial Consumers shall be billed on the basis of two-part T.O.U tariff.

C BULK SUPPLY

"Bulk Supply" for the purpose of this Tariff, means the supply given at one point for self-consumption to mix-load consumer not selling to any other consumer such as residential, commercial, tube-well and others.

General Conditions

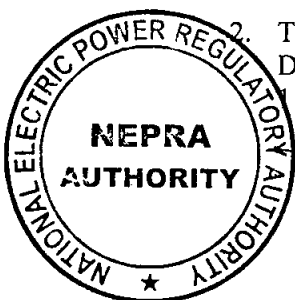
If, for any reason, the meter reading date of a consumer is altered and the acceleration/retardation in the date is up to 4 days no notice will be taken of this acceleration or retardation. But if the date is accelerated or retarded by more than 4 days the fixed charges shall be assessed on proportionate basis for actual number of days between the date of old reading and the new reading.

C-I SUPPLY AT 400/230 VOLTS

1. This Tariff is applicable to a consumer having a metering arrangement at 400 volts, having sanctioned load of up to and including 500 kW.
2. Consumers having sanctioned load less than 5 kW shall be billed on single-part kWh rate i.e. C-I(a) tariff.
3. All new consumers having sanctioned load 5 kW and above shall be provided T.O.U metering arrangement and shall be billed on the basis of Time-of-Use (T.O.U) tariff C-1(c) given in the Schedule of Tariff.
4. All the existing consumers governed by this tariff having sanctioned load 5 kW and above shall be provided T.O.U metering arrangements.

C-2 SUPPLY AT 11 kV AND 33 kV

1. This tariff is applicable to consumers receiving supply at 11 kV or 33 kV at one-point metering arrangement and having sanctioned load of more than 500 kW up to and including 5 MW.
2. The consumers may be allowed extension of load beyond 5MW upto 7.5MW from the DISCO's owned grid station subject to availability of load in the grid and capacity in the 11kV existing dedicated feeder. In such a case the consumer will bear 100% grid sharing



charges including transmission line charges and 100% cost of land proportionate to load. However, only such consumers be allowed extension of load beyond 5MW upto 7.5MW whose connection is at least three (3) years old. While allowing extension in load, the DISCOs shall ensure that no additional line losses are incurred and additional loss, if any, shall be borne by the respective consumers.

3. The supply under this Tariff shall not be available to a prospective consumer unless he provides, to the satisfaction and approval of the Company, his own Transformer, Circuit Breakers and other necessary equipment as part of the dedicated distribution system for receiving and controlling the supply, or, alternatively pays to the Company for all apparatus and equipment if so provided and installed by the Company. The recovery of the cost of service connection shall be regulated by the Eligibility Criteria laid down by the Authority read with CSM.
4. All new consumers shall be provided TOU metering arrangement and shall be billed on the basis of tariff C-2(b) as set out in the Schedule of Tariff.
5. Existing consumers governed by this tariff shall be provided with T.O.U metering arrangement and converted to C-2(b).

C-3 SUPPLY AT 66 kV AND ABOVE

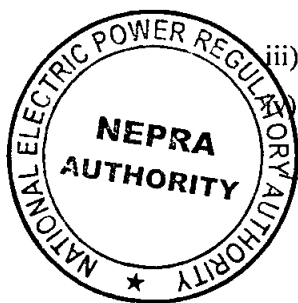
1. This tariff is applicable to consumers having sanctioned load of more than 5000 kW receiving supply at 66 kV and above.
2. If the Grid Station required for provision of supply falls within the purview of the dedicated system under the Eligibility Criteria laid down by the Authority read with CSM, the supply under this Tariff shall not be available to such a prospective consumer unless he provides, to the satisfaction and approval of the Company, an independent grid station of his own including Land, Building, Transformers, Circuit Breakers and other necessary equipment and apparatus as part of the dedicated distribution system for receiving and controlling the supply, or, alternatively, pays to the Company for all such Land, Building, Transformers, Circuit Breakers and other necessary equipment and apparatus if so provided and installed by the Company. The recovery of cost of service connection shall be regulated by Eligibility Criteria laid down by the Authority read with CSM.
3. Existing consumers governed by this tariff shall be provided with T.O.U metering arrangement and converted to C-3(b).
4. All new consumers shall be provided TOU metering arrangement and shall be billed on the basis of tariff C-3(b) as set out in the Schedule of Tariff.

D AGRICULTURAL SUPPLY

“Agricultural Supply” means the supply for Lift Irrigation Pumps and/or pumps installed on Tube-wells intended solely for irrigation or reclamation of agricultural land or forests, and include supply for lighting of the tube-well chamber.

Special Conditions of Supply

1. This tariff shall apply to:
 - i) Reclamation and Drainage Operation under Salinity Control and Reclamation Projects (SCARP):
 - ii) Bona fide forests, agricultural tube-wells and lift irrigation pumps for the irrigation of agricultural land.
 - iii) Tube-wells meant for aqua-culture.
- Tube-wells installed in a dairy farm meant for cultivating crops as fodder and for upkeep of cattle.



2. If, for any reason, the meter reading date of a consumer is altered and the acceleration/retardation in the date is up to 4 days, no notice shall be taken of this acceleration or retardation. But if the date is accelerated or retarded by more than 4 days, the fixed charges shall be assessed on proportionate basis for the actual number of days between the date of the old reading and the new reading.
3. The lamps and fans consumption in the residential quarters, if any, attached to the tube-wells shall be charged entirely under Tariff A-1 for which separate metering arrangements should be installed.
4. The supply under this Tariff shall not be available to consumer using pumps for the irrigation of parks, meadows, gardens, orchards, attached to and forming part of the residential, commercial or industrial premises in which case the corresponding Tariff A-1, A-2 or Industrial Tariff B-1, B-2 shall be respectively applicable.

D-1

1. This tariff is applicable to all Reclamation and Drainage Operation pumping under SCARP related installation.
2. Consumers having sanctioned load less than 5 kW shall be billed on single-part kWh rate i.e. D-1(a) tariff given in the Schedule of Tariff.
3. All new consumers having sanctioned load 5 kW and above shall be provided TOU metering arrangement and shall be charged on the basis of Time-of- Use (T.O.U) tariff D-1(b) given in the Schedule of Tariff.
4. All the existing consumers having sanctioned load 5 kW and above shall be provided T.O.U metering arrangements and shall be governed by D-1(a) till that time.

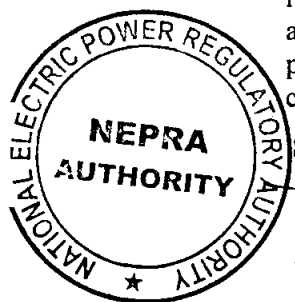
D-2

1. This tariff is applicable to consumers falling under Agriculture Supply excluding SCARP related installations.
2. Consumers having sanctioned load less than 5 kW shall be billed on single-part kWh rate i.e. D-2(a) tariff given in the Schedule of Tariff.
3. All new consumers having sanctioned load 5 kW and above shall be provided TOU metering arrangement and shall be charged on the basis of Time-of- Use (T.O.U) tariff D- 2(b) given in the Schedule of Tariff.
4. All the existing consumers having sanctioned load 5 kW and above shall be provided T.O.U metering arrangements and shall be governed by D-2(a) till that time.

E -1 TEMPORARY RESIDENTIAL/COMMERCIAL SUPPLY

Temporary Residential/Commercial Supply means a supply given to persons temporarily on special occasions such as ceremonial, religious gatherings, festivals, fairs, exhibitions, political gathering, marriages and other civil or military functions. This also includes supply to touring cinemas and persons engaged in construction of house/buildings/plazas of single phase loads. A temporary electric power supply connection for the construction shall be provided by Distribution company initially for a period of six months which is further extendable on three month basis up to completion of the specific job/project for which the temporary connection was obtained. However, there is no minimum time period for provision of temporary connection. The temporary connection for illumination, lighting, weddings, festivals, functions, exhibitions, political gatherings or national and religious ceremonies, civil or military functions etc., testing of industrial equipment or any other emergent requirement of temporary nature, can be provided for specific time period not exceeding two weeks. The sanctioning officer shall ensure that the temporary connection will be utilized for temporary purpose only.

Special Conditions of Supply



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1. This tariff shall apply to Residential and Commercial consumers for temporary supply.
2. Ordinarily the supply under this Tariff shall not be given by the Company without first obtaining security equal to the anticipated supply charges and other miscellaneous charges for the period of temporary supply.

E -2 TEMPORARY INDUSTRIAL SUPPLY

“Temporary Industrial Supply” means the supply given to an Industry for the bonafide purposes mentioned under the respective definitions of “Industrial Supply”, during the construction phase prior to the commercial operation of the Industrial concern.

SPECIAL CONDITIONS OF SUPPLY

1. Ordinarily the supply under this Tariff shall not be given by the Company without first obtaining security equal to the anticipated supply charges and other miscellaneous charges for the period of temporary supply.
2. Normally, temporary connections shall be allowed for a period of 3 months, which may be extended on three months basis subject to clearance of outstanding dues.

F SEASONAL INDUSTRIAL SUPPLY

“Seasonal Industry” for the purpose of application of this Tariff, means an industry which works only for part of the year to meet demand for goods or services arising during a particular season of the year. However, any seasonal industry running in combination with one or more seasonal industries, against one connection, in a manner that the former works in one season while the latter works in the other season (thus running throughout the year) will not be classified as a seasonal industry for the purpose of the application of this Tariff.

Definitions

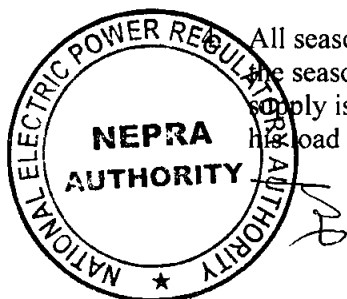
“Year” means any period comprising twelve consecutive months.

1. All “Definitions” and “Special Conditions of Supply” as laid down under the corresponding Industrial Tariffs shall also form part of this Tariff so far as they may be relevant.

Special Conditions of Supply

1. This tariff is applicable to seasonal industry.
2. Fixed Charges per kilowatt per month under this tariff shall be levied at the rate of 125% of the corresponding regular Industrial Supply Tariff Rates and shall be recovered only for the period that the seasonal industry actually runs subject to minimum period of six consecutive months during any twelve consecutive months. The condition for recovery of Fixed Charges for a minimum period of six months shall not, however, apply to the seasonal industries, which are connected to the Company’s Supply System for the first time during the course of a season.
3. The consumers falling within the purview of this Tariff shall have the option to change over to the corresponding industrial Supply Tariff, provided they undertake to abide by all the conditions and restrictions, which may, from time to time, be prescribed as an integral part of those Tariffs. The consumers under this Tariff will have the option to convert to Regular Tariff and vice versa. This option can be exercised at the time of obtaining a new connection or at the beginning of the season. Once exercised, the option will remain in force for at least one year.

All seasonal loads shall be disconnected from the Company’s Supply System at the end of the season, specified by the consumer at the time of getting connection, for which the supply is given. In case, however, a consumer requires running the non-seasonal part of his load (e.g., lights, fans, tube-wells, etc.) throughout the year, he shall have to bring out



separate circuits for such load so as to enable installation of separate meters for each type of load and charging the same at the relevant Tariff.

5. Where a "Seasonal Supply" consumer does not come forward to have his seasonal industry re-connected with the Company's Supply System in any ensuing season, the service line and equipment belonging to the Company and installed at his premises shall be removed after expiry of 60 days of the date of commencement of season previously specified by the consumer at the time of his obtaining new connection/re-connection. However, at least ten clear days notice in writing under registered post shall be necessary to be given to the consumer before removal of service line and equipment from his premises as aforesaid, to enable him to decide about the retention of connection or otherwise. No Supply Charges shall be recovered from a disconnected seasonal consumer for any season during which he does not come forward to have his seasonal industry re-connected with the Company's Supply System.

G PUBLIC LIGHTING SUPPLY

"Public Lighting Supply" means the supply for the purpose of illuminating public lamps. The supply under this tariff shall also be applicable for lamps used in public playgrounds and public parks.

Definitions

"Month" means a calendar month or a part thereof in excess of 15 days.

Special Conditions of Supply

The supply under this Tariff shall be used exclusively for public lighting installed on roads or premises used by General Public.

H RESIDENTIAL COLONIES ATTACHED TO INDUSTRIES

This tariff is applicable for one-point supply to residential colonies attached to the industrial supply consumers having their own distribution facilities.

Definitions

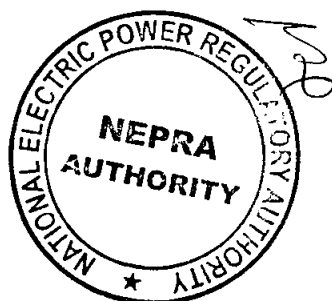
"One Point Supply" for the purpose of this Tariff, means the supply given by one point to Industrial Supply Consumers for general and domestic consumption in the residential colonies attached to their factory premises for a load of 5 Kilowatts and above. The purpose is further distribution to various persons residing in the attached residential colonies and also for perimeter lighting in the attached residential colonies.

"General and Domestic Consumption", for the purpose of this Tariff, means consumption for lamps, fans, domestic applications, including heated, cookers, radiators, air-conditioners, refrigerators and domestic tube-wells.

"Residential Colony" attached to the Industrial Supply Consumer, means a group of houses annexed with the factory premises constructed solely for residential purpose of the bonafide employees of the factory, the establishment or the factory owners or partners, etc.

Special Conditions of Supply

The supply under this Tariff shall not be available to persons who meet a part of their requirements from a separate source of supply at their premises.



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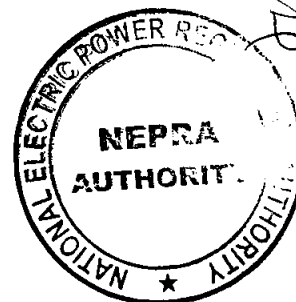
HSE Objectives/Targets**Definition**

1. **Goal:** Goals are general guidelines that explain what needs to be achieved by the Licensee with management intervention, providing resources and support. Goals should be specific, measurable, attainable, realistic, and time-sensitive (SMART).
2. **Objective/Target:** Objectives/Targets define strategies or implementation steps to attain the identified goals. They are more specific and outline the “who, what, when, where, and how” of reaching the goals.
3. **KPI:** A Key Performance Indicator is a measurable value that demonstrates how effectively Licensee is achieving goals and objectives. Key Performance Indicators (KPIs) in numbers for the goals and objectives to review and monitor its status for effective implementation.

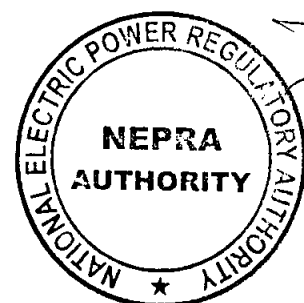
HSE Objectives/Targets

DISCO's HSE Goal: Improve public and employee safety to achieve zero fatality incidents.

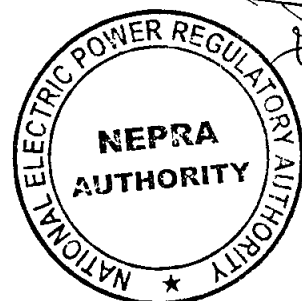
No.	Objective/Target	Key Performance Indicator
1.	Provide and maintain earthing/grounding to all HT/LT infrastructures, apparatus, and poles, along with stay wire. Earthing/grounding resistance shall be as per Distribution Design Code or manufacturer's instruction. In the absence of grounding instruction, the earthing resistance for HT/LT structures/ poles shall be not more than 5 Ohms and Distribution transformer shall be not more than 2.5 Ohms to determine the integrity of the grounding path to ensure protection from shock hazards. The earthing resistance for Grid Station/ Substation/ Switchyard equipment shall not be more than 2 Ohms. Verify integrity of fixed earthing/grounding by continuity and resistance measurement tests. In general, this cycle can range from 6 months to 3 years, depending on conditions and criticality. Wet locations testing should be 12 months and critical care shall be 6 months. Provide name	Earthing/grounding of infrastructures, apparatus, and poles, along with stay wire until June 30, 2022.
		Periodic verification of integrity of earthing/ grounding.
		On the basis of periodic continuity and resistance measurement tests, continually repair/rectify deteriorated earthing/grounding system within one month.



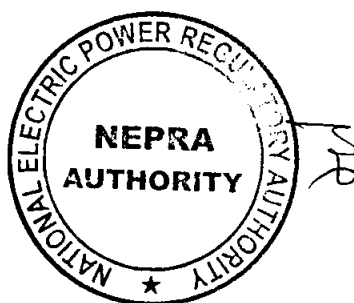
No.	Objective/Target	Key Performance Indicator
	plate/ tag to all structures/ poles/ equipment's with numbers for tracking of earthing/ grounding testing record, etc. Original record of testing with structures/ poles/ equipment's numbers shall be retained and preserved by licensee for three (03) years.	
2.	Replace all substandard RORA fuses in each subdivision with standard fuses in accordance with approved design such as a high rupturing capacity fuse of standard size and rating. Install only standard fuses every time.	Installation of standard fuses until June 30, 2022.
3.	Conduct annual survey in each subdivision to identify hazardous points, deteriorated systems, hardware and conductors. Implement rehabilitation program to rectify/replace hazardous points, deteriorated systems, hardware and conductors.	<p>Survey report of each subdivision until the end of each fiscal year.</p> <p>On the basis of survey report, rectify/replace hazardous points, deteriorated systems, hardware and conductors within three months.</p>
4.	Conduct survey in each subdivision to identify conductors in narrower/ congested areas having less clearance from houses/ buildings. Re-organize/re-position or Install insulated conductors (aerial bundled cables/conductors) to achieve minimum horizontal and vertical safe clearance.	<p>Survey report of each subdivision until the end of each fiscal year.</p> <p>On the basis of survey report, re-organize/re-position or install insulated conductors within three months.</p>
5.	Conduct survey to identify substandard/obsolete electromechanical relays/protections for abnormal conditions (short-circuits, overloading, ground fault, broken conductor features, etc.) whose failure can result in serious injuries. Replace substandard/obsolete electromechanical relays/protections with high speed digital/programmable relays/protections.	<p>Survey report until the end of each fiscal year.</p> <p>On the basis of survey report, replace relays/ protections within three months.</p>
6.	Conduct a need assessment for authorized workshops. Establish authorized workshops with repair facilities having	Workshop Need Assessment Report until June 30, 2022.



No.	Objective/Target	Key Performance Indicator
	testing facilities for transformer reliability and integrity to ensure fitness.	Established authorized workshops as per report until Dec 31, 2022.
7.	<p>Arrange and maintain stock of following special PPE at each subdivision and Grid station for authorized employees/ contractors while working or handling energized systems against approved "Permit to Work" under the continuous direction and supervision of the job in-charge.</p> <p>1. Full Face Shield (polycarbonate or similar non-melting type)</p> <p>2. Insulated gloves with sleeves rated for the voltage involved.</p> <p>3. Arc Flash Kit for Arc Flash Protection such as Category 4 Arc Flash Resistant Suite, Arc Flash Hood Arc-rated Gloves and Arc-rated Fall Protection while working at high voltages (more than 420 V).</p> <p>Arrange training at each subdivision and Grid station for these special PPE for authorized employees/ contractors.</p> <p>Ensure use of these special PPE in each subdivisions.</p>	Maintain stock of full face shield, insulated gloves with sleeves and arc flash kit until June 30, 2022.
		Training by supplier until June 30, 2022.
		Use of full face shield, insulated gloves with sleeves and arc flash kit at each subdivision and Grid station until June 30, 2022.
8.	<p>Arrange and maintain stock of Full Body Harness with front work positioning belt (positioning lanyard) along with double lanyard for 100% tie at each subdivision and Grid station for authorized employees/ contractors while working on height more than 6 feet/1.8 meter above the ground or impact level.</p> <p>Full Body Harness with front work positioning belt (positioning lanyard) along with double lanyard for 100% tie shall be used at heights more than 6 feet/1.8 meter above the ground when climbing poles, towers and structures including working through mobile elevated aerial platform, man-baskets,</p>	Maintain stock of Full Body Harness with front work positioning belt (positioning lanyard) along with double lanyard until June 30, 2022.
		Training by supplier until June 30, 2022.
		Use of Full Body Harness at each subdivision and Grid station until June 30, 2022.



No.	Objective/Target	Key Performance Indicator
	<p>man-lift or bucket mounted vehicles. Full Body Harness with front work positioning belt is to allow an employee to be supported on an elevated vertical surface such as a wall or pole and to work with both hands free. Use of a body belt alone for fall arrest is prohibited. Full Body Harness with PVC coated hardware should be used when working in an explosive or electrically conductive environment. Anchor the safety harness lanyard on a rigged anchorage point at height, having a fall clearance safety factor of three (03) feet from impact level or ground level.</p> <p>Arrange training at each subdivision and Grid station for these special PPE for authorized employees/ contractors.</p> <p>Ensure use of these special PPE in each subdivision and Grid station.</p>	



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