

Part – III (A)

Tariff Petition for the FY 2022-23

Submitted by:

**Power & Electricity Department
Government of Mizoram**

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LIST OF ABBREVIATIONS

Abbreviation	Description
A&G	Administration & General
ARR	Aggregate Revenue Requirement
CAGR	Compound Annual Growth Rate
CD	Contract Demand
CERC	Central Electricity Regulatory Commission
CGS	Central Generating Stations
CoS	Cost of Supply
CPSU	Central Power Sector Undertakings
Crs	Crore
D/E	Debt Equity
P&ED	Power & Electricity Department, Govt. of Mizoram
FAC	Fuel Adjustment Costs
FDR	Fixed Deposits Receipts
FY	Financial Year
GFA	Gross Fixed Assets
HP	Horse Power
HT	High Tension
JERC (M&M)	Joint Electricity Regulatory Commission for Manipur & Mizoram
KV	Kilovolt
KVA	Kilovolt Amps
kWh	kilo Watt hour
LT	Low Tension
LTC	Leave Travel Concession
MU	Million Units
MVA	Millionvolt Amps
MW	Mega Watt
O&M	Operation & Maintenance
PLF	Plant Load Factor
PLR	Prime Lending Rate
R&M	Repairs and Maintenance
RoE	Rate of Return
₹	Rupees
S/s	Sub Station
SBI	State Bank of India
T&D	Transmission & Distribution
UI	Unscheduled Interchange

1 Introduction

1.1. Background

The P&ED's tariff determination is now governed by "Joint Electricity Regulatory Commission for Manipur & Mizoram (Multi Year Tariff) Regulations, 2014" (referred to as "MYT Regulations, 2014") which came into force from 09.06.2014. Further, the Hon'ble Commission has notified First Amendment Regulations, 2019. The MYT Regulations, 2014 read with First Amendment Regulations, 2019 provide a framework for calculating tariffs on a cost-plus basis and allow the licensee to recover operational expenses including depreciation, interest on working capital, debt and return on equity amongst others.

Multi Year Tariff Order for the 2nd control period of 5 years from FY 2018-19 to FY 2022-23 was issued by the Hon'ble Commission vide order dated 12.03.2018 under the Joint Electricity Regulatory Commission for Manipur and Mizoram (Multi Year Tariff) Regulations, 2014.

The Hon'ble Commission determined the Aggregate Revenue Requirement for the FY 2018-19 to FY 2022-23 & Tariff for the FY 2018-19 in the MYT Order dated 12.03.2018. Further, Tariff Order of the FY 2020-21 was issued vide Order dated 20.03.2020.

Regulation 5.2 (iii) of the Joint Electricity Regulatory Commission for Manipur and Mizoram (Multi Year Tariff) Regulations, 2014 provides as follows:

"In case of Mid-term Review of Business Plan under Regulation 4.2 (i), the Petition shall comprise of:

- a. Truing Up for previous year;*
- b. Modification of the ARR for the remaining year of the Control Period, if any, with adequate justification for the same;*
- c. Revenue from the sale of power at existing tariffs and charges for the ensuing year;*
- d. Revenue gap for the ensuing year calculated based on ARR approved in the MYT Order and truing up for the previous year;*
- d. Application for determination of tariff for the ensuing year."*

Further, the Hon'ble Commission notified the First Amendment Regulations, 2019 is as follows:

"5.2 The filing of the Control Period under these Regulations shall be as under.

(i).....

(ii) From the second year of the Control Period onwards and upto the last year of the Control Period, the petition in each year shall comprise of:

- a. Truing Up for the previous year with audited accounts, and Annual Performance Review (APR) with revision of ARR approved in MYT Order for current year and revised projection of ARR approved in MYT Order for the ensuing year in accordance with these Regulations;*
- b. Revenue from the sale of power at existing tariffs and changes for the current year;*
- c. Revenue gap for the ensuing year calculated based on the revised projection of ARR and truing up of the previous year;*
- d. Application for determination of tariff for the ensuing year.”*

As per the above regulation, the Joint Electricity Regulatory Commission for Manipur and Mizoram requires the P&ED to apply for determination of tariff for the ensuing year which in the instant case is FY 2022-23. Accordingly, based on the Aggregate Revenue Requirement approved by the Hon'ble Commission for the FY 2022-23, P&ED is required to propose the tariff for sale of energy during the FY 2022-23.

It is submitted that there has been changes in certain parameters and determinants of ARR for the FY 2022-23 based on the performance during the FY 2020-21 & FY 2021-22 (H1). Accordingly, P&ED is submitting the revised ARR & proposal for determination of tariff for the FY 2022-23.

P&ED requests the Hon'ble Commission to kindly consider the submission and approve the revised ARR & tariff for the FY 2022-23 in accordance with the Joint Electricity Regulatory Commission for Manipur and Mizoram (Multi Year Tariff) Regulations, 2014 read with First Amendment Regulations, 2019.

1.2. Overall Approach for present filing

1.2.1. Petition for determination of Tariff for the FY 2022-23

P&ED hereby submits its petition for approval of Tariff for the FY 2022-23. This petition is submitted in compliance with the Regulation 5(ii)(d) of MYT Regulations, 2014 read with First Amendment Regulations, 2019. The petitioner is attempting to comply with the various guidelines in the Act and regulations within the limitations of availability of data.

P&ED is filing the petition based on the overall frame work of parameters approved by the Hon'ble Commission in the MYT Order. However, P&ED has also proposed revisions in certain determinants of ARR. P&ED has studied the past trends and taken cognizance of other internal and external developments to estimate the likely performance during the FY 2022-23.

1.2.2. Approach for filing

The MYT Regulations, 2014 segregate the items impacting tariffs into controllable and uncontrollable factors. Items that are uncontrollable are passed through to the consumers. Further, the MYT Regulations, 2014 identifies the uncontrollable and controllable parameters as follows:

The Uncontrollable Factors

The “uncontrollable factors” comprises of the following factors:

- (i) Force Majeure events;
- (ii) Change in law, judicial pronouncements and Orders of the Central Government, State Government or Commission;
- (iii) Variation in the price of fuel and/ or price of power purchase according to the FPPPA formula approved by the Hon’ble Commission from time to time;
- (iv) Variation in the number or mix of consumers or quantities of electricity supplied to consumers
- (v) Transmission Loss;
- (vi) Variation in market interest rates;
- (vii) Taxes and Statutory levies;
- (viii) Taxes on Income;
- (ix) Non-Tariff Income;

The Controllable factors

Controllable factors include, but are not limited to the following:

- (i) Variations in capitalization on account of time and/or cost overruns/ efficiencies in the implementation of a capital expenditure project not attributable to an approved change in scope of such project, change in statutory levies or force majeure events;

- (ii) Variation in Interest and Finance Charges, Return on Equity, and Depreciation on account of variation in capitalization, as specified in clause (i) above;
- (iii) Variations in technical and commercial losses of Distribution Licensee;
- (iv) Variations in performance parameters;
- (v) Variations in working capital requirements;
- (vi) Failure to meet the standards specified in the Joint Electricity Regulatory Commission for the states of Manipur and Mizoram (Standard of Performance for Distribution and Transmission Licensees) Regulations, 2010, as amended from time to time except where exempted in accordance with those Regulations;
- (vii) Variations in labour productivity;
- (viii) Variation in operation & maintenance expenses;
- (ix) Variation in Wires Availability.

In view of the above, the present petition has been filed keeping the controllable factors unchanged as far as possible. However, changes have been proposed where new developments have taken place making it necessary to incorporate the same in the ARR.

The subsequent sections provide the various expenses as approved by the Hon'ble Commission and proposed additional expenses for the FY 2022-23.

2. ANNUAL REVENUE REQUIREMENT FOR THE FY 2022-23

2.1. Energy sales

The P&ED proposes to revise the energy sales for various categories of consumers based on the actual sales for the FY 2020-21 & revised estimate of FY 2021-22. The energy sales for the FY 2022-23 as approved by the Hon'ble Commission and revised sales figures are provided in the table below:

Table 2.1: Energy Sales FY 2022-23

(In MUs)

Sl. No.	Category	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
	LT Consumers			
1	Kutir Jyoti	3.00	7.92	4.92
2	Domestic	305.00	304.01	-0.99
3	Non-Domestic	0.00	9.04	9.04
4	Commercial	40.00	37.70	-2.30
5	Public Lighting	6.00	2.33	-3.67
6	Agriculture	0.02	0.07	0.05
7	Public Water Works	7.00	0.87	-6.13
8	LT Industrial	2.00	4.47	2.47
	Total LT	363.02	366.42	3.40
	HT Consumers			
9	Domestic	6.00	4.79	-1.21
10	Non-Domestic	0.00	0.28	0.28
11	Commercial	10.00	11.10	1.10
12	Agriculture	0.34	0.11	-0.23
13	Public Water Works	57.00	90.03	33.03
14	HT Industrial	12.00	6.11	-5.89
15	Bulk Supply	29.00	16.16	-12.84
	Total HT	114.34	128.57	14.23
16	Outside State - Trading	29.31	101.10	71.79
	Total	506.67	596.09	89.42

2.2. Distribution Losses

It is submitted that the P&ED is making all efforts to meet the trajectory of distribution loss given by the Hon'ble Commission in the MYT Order. Accordingly, P&ED is not proposing and deviations in the distribution loss % approved by the Hon'ble Commission for the FY 2022-23 at this stage. However, actuals & deviations if any shall be submitted for consideration & approval at the time of true-up. The Distribution loss for the FY 2022-23 as approved by the Hon'ble Commission is provided in the table below:

Table 2.2: Distribution Loss for FY 2022-23

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Distribution Loss	17.90%	17.90%	0.00%

2.3. P&ED's Own Generation

The P&ED's own generation for the FY 2022-23 as approved by the Hon'ble Commission & P&ED revised the own generation based on the actual generation for the FY 2020-21 & revised estimate for the FY 2021-22. Details are provided in the table below:

Table 2.3: P&ED's Own Generation FY 2022-23

(In MUs)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Total Generation (Net)	64.85	6.27	-58.58
	Total	64.85	6.27	-58.58

It is submitted that P&ED is not operating the **Khawiva SHP, Tuipui SHP, Teirei SHP & Kau Tlabung SHP** and the SHPs have been operated and managed by Amazon Engineering. Hence, the Installed Capacity & energy generation does not include in Own Generation. However, P&ED has procured the energy generated from the above SHPs and has incorporated the same in the power purchase for the year.

2.4. Power Purchase

It is submitted that the power purchase units for the FY 2022-23 has been revised based on the actual purchase for the FY 2020-21 & revised estimate for the FY 2021-22. The power purchase units for the FY 2022-23 as approved by the Hon'ble Commission & revised estimate is provided in the table below:

Table 2.4: Power Purchase Units FY 2022-23

(In MUs)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Power Purchase Units	579.56	725.31	145.75
	Total	579.56	725.31	145.75

2.5. Energy Balance

The energy balance for the FY 2022-23 as approved by the Hon'ble Commission and the revised proposal of energy balance is provided in the table below:

Table 2.5: Energy Balance FY 2022-23

Sl. No.	Energy Balance	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
A	Energy Requirement			
1	Energy Sales	477.36	494.99	17.63
2	Distribution Loss (%)	17.90%	17.90%	0.00%
3	Distribution Loss (MUs)	104.08	107.91	3.83
4	Total Energy Requirement	581.44	602.90	21.46
B	Energy Availability			
5	Own Generation	64.85	6.27	-58.58
6	Energy Purchase from ER	33.38	31.71	-1.67
7	Less: ER Pool Loss (%)	2.11%	1.95%	0.00
8	Less: ER Pool Loss (Mus)	0.71	0.62	-0.10
9	Net Energy for ER	33.17	31.09	-2.08
10	Energy Purchase from NER (Exl. Tuirial HEP)	507.54	546.03	38.49
11	UI / Deviation	38.14	0.00	-38.14
12	Sub Total	578.85	577.12	-1.73
13	Less: NER Pool Loss (%)	2.60%	2.54%	0.00
14	Less: NER Pool Loss (MUs)	14.06	14.66	0.60
15	Net Energy at NERLDC	564.79	562.46	-2.33
16	Energy purchases from Tuirial HEP	0.00	115.42	115.42
17	Free Energy from Tuirial HEP	0.00	15.74	15.74
18	Amazon Engineering	0.00	14.09	14.09
19	Rooftop Solar Generation	0.00	0.09	0.09
20	Solar Generation	0.00	2.22	2.22
21	Energy Available	629.64	716.30	86.66
22	Less: Outside State - Trading	29.31	101.10	71.79
23	Total Energy Available	600.33	615.20	14.87
24	Less: Intra State Tr. Loss (%)	3.00%	2.00%	-0.01
25	Less: Intra State Tr. Loss (MUs)	18.89	12.30	-6.59
26	Net Energy Available	581.44	602.89	21.45
27	Less: Energy requirement at State Periphery	581.44	602.90	21.46
28	ENERGY SURPLUS/(DEFICIT)	0.00	0.00	0.00

2.6. Fuel Cost

The fuel cost for the FY 2022-23 as approved by the Hon'ble Commission is provided in the table below. P&ED is not proposing any changes to the approved cost.

Table 2.6: Fuel Cost FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Cost of Fuel	0.01	0.01	0.00
	Total	0.01	0.01	0.00

2.7. Cost of Generation

The Cost of Generation for the FY 2022-23 as approved by the Hon'ble Commission is provided in the table below. P&ED is not proposing any changes to the approved cost.

Table 2.7: Cost of Generation FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Cost of Generation	9.65	3.15	-6.50
	Total	9.65	3.15	-6.50

2.8. Power Purchase Cost

The Hon'ble Commission in the Tariff Order dated 12.03.2018 had approved a power purchase quantum of 579.56 MUs at a total cost of ₹ 228.82 Crores for the FY 2022-23. As submitted above the estimate of power purchase quantum for the FY 2022-23 is proposed to be revised to 725.31 MUs. It is submitted that the power purchase cost for the FY 2022-22 has been revised based on the actual purchase for the FY 2020-21 & revised estimate for the FY 2021-22. Accordingly, the power purchase cost is also proposed to be revised. Further, Power purchase cost for renewable energy for the FY 2022-23 has been arrived at in following manner:

The cost towards RPO has been arrived at in accordance with the RPO targets prescribed in the RPO regulations. The target for solar & non-solar for the FY

2021-22 is 20.50% (10.00% for non-solar & 10.50% for solar). The RPO for solar & Non-solar has been calculated based on the actual consumption (excluding outside the state sale but including T&D loss). Further, procurement of power from hydro sources has been reduced to arrive at the base figure for calculation of RPO.

For the solar RPO category, the prescribed target of 10.50% has been applied on the base figure of 315.82 MUs. Further, 2.32 MUs has been deducted as procured from solar category. Accordingly, 30,840.88 MWh (30.84 MUs) is computed as the solar RPO for the FY 2022-23. The rate as prescribed by CERC has been considered to arrive at the cost of RPO of ₹ 7.40 Crores.

For the non-solar RPO category, the prescribed target of 10.00% has been applied on the base figure of 315.82 MUs. Further, 6.27 MUs has been deducted as procured from non-solar category. Accordingly, 25,309.85 MWh (25.31 MUs) is computed as the non-solar RPO for the FY 2022-23. The rate as prescribed by CERC has been considered to arrive at the cost of RPO of ₹ 7.59 Crores.

The comparison of the approved power purchase cost and the revised estimate as arrived above is given in the table below.

Table 2.8: Power Purchase Cost FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Power Purchase Cost	228.82	468.61	239.79
	Total	228.82	468.61	239.79

2.9. Transmission Charges

It is submitted that the transmission charges for the FY 2022-23 has been revised based on the actual transmission charges for the FY 2020-21 & revised estimate for the FY 2021-22. The transmission charges for the FY 2022-23 as approved by the Hon'ble Commission & revised estimate is provided in the table below.

Table 2.9: Transmission Charges FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Transmission Charges	58.48	56.78	-1.70
	Total	58.48	56.78	-1.70

2.10. Intra- State Transmission Charges

The Intra- State Transmission Charges for the FY 2022-23 as approved by the Hon'ble Commission is provided in the table below. P&ED is not proposing any changes to the approved cost.

Table 2.10: Intra- State Transmission Charges FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Intra-State Transmission Charges	38.88	51.45	12.57
	Total	38.88	51.45	12.57

2.11. Employee Cost

It is submitted that the Employee cost for the FY 2022-23 has been revised based on the actual Employee cost for the FY 2020-21 & revised estimate for the FY 2021-22. The employee cost of Rs. 152.98 Crores as projected **for the FY 2022-23 only relates to the distribution function**. The Employee cost for the FY 2022-23 as projected & approved by the Hon'ble Commission is provided in the table below.

Table 2.11: Employee Cost FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Employee Cost	60.53	152.98	92.45
	Total	60.53	152.98	92.45

2.12. Repair & Maintenance Expenses

It is submitted that the Repair & Maintenance Expenses for the FY 2022-23 has been revised based on the actual Repair & Maintenance Expenses for the FY 2020-21 & revised estimate for the FY 2021-22. The Repair & Maintenance Expenses of Rs. 10.80 Crores as projected **only relates to the distribution function**. The Repair & Maintenance Expenses for the FY 2022-23 as projected & approved by the Hon'ble Commission is provided in the table below.

Table 2.12: Repair & Maintenance Expenses FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Repair & Maintenance Expenses	8.87	10.18	1.31
	Total	8.87	10.18	1.31

2.13. Administration & General Expenses

It is submitted that the Administration & General Expenses for the FY 2022-23 has been revised based on the actual Administration & General Expenses for the FY 2020-21 & revised estimate for the FY 2021-22. The Administration & General Expenses of Rs. 5.16 Crores as projected **only relates to the distribution function**. The Administration & General Expenses for the FY 2022-23 as projected & approved by the Hon'ble Commission is provided in the table below.

Table 2.13: Administration & General Expenses FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Administration & General Expenses	1.76	5.16	3.40
	Total	1.76	5.16	3.40

2.14. Depreciation

The Hon'ble Commission has approved the Depreciation for the FY 2022-23. In this regard it is submitted that the GFA for the FY 2020-21 has got revised in accordance with the audited annual accounts for which true-up proposal is being submitted. The Fixed Asset & Depreciation Register for the FY 2020-21 is also being submitted. Therefore, the GFA & corresponding depreciation for the FY 2021-22 & FY 2022-23 also stands revised.

In view of the above it is requested that the Hon'ble Commission may kindly consider & approve the revised depreciation for the FY 2022-23. The depreciation approved by the Hon'ble Commission and revised depreciation for the FY 2022-23 is provided in the table below:

Table 2.14: Depreciation FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Depreciation	7.33	2.82	-4.51
	Total	7.33	2.82	-4.51

2.15. Interest & Finance Charges

The Interest & Finance charges for the FY 2022-23 as approved by the Hon'ble Commission & projected by P&ED is provided in the table below.

Table 2.15: Interest & Finance Charges FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Interest & Finance Charges	0.25	0.46	0.21
	Total	0.25	0.46	0.21

2.16. Interest on Working Capital

The Interest on Working capital for the FY 2022-23 as approved by the Hon'ble Commission and the revised interest on working capital is provided in the table below:

Table 2.16: Interest on Working Capital FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Interest on Working Capital	6.05	6.53	0.48
	Total	6.05	6.53	0.48

2.17. Interest on Consumer Security Deposit

The interest on Consumer Security Deposit approved for the FY 2022-23 was on the basis of closing balance of Consumer Security Deposit. The interest on Consumer Security Deposit as approved and the revised estimate for the FY 2021-22 are provided in the table below:

Table 2.17: Interest on Consumer Security Deposit FY 2022-23
(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Interest on Consumer Security Deposit	0.00	0.61	-0.61
	Total	0.00	0.61	-0.61

2.18. Provision for Bad & Doubtful Debt

The Hon'ble Commission did not approve Provision for Bad & Doubtful Debt for the FY 2022-23.

Table 2.18: Provision for Bad & Doubtful Debt FY 2022-23
(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Provision for Bad Debt	0.00	0.00	0.00
	Total	0.00	0.00	0.00

2.19. Contribution to Contingency Reserve Fund

Regulation 76.6 of the Joint Electricity Regulatory Commission for Manipur and Mizoram (Multi Year Tariff) Regulations, 2014 provides that the Transmission licensee shall be allowed an annual appropriation of 0.5% of the original cost of fixed assets towards Contingency Reserve. It further provides that the maximum cumulative provision under the Contingency Reserve shall not exceed 5% of original cost of fixed assets. In view of the above, the P&ED has appropriated 0.5% of the cost of fixed assets towards Contingency Reserve for the FY 2022-23. The Contingency Reserve Fund as approved and the revised estimate for the FY 2022-23 are provided in the table below:

Table 2.19: Contribution to Contingency Reserve Fund FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Contribution to Contingency Reserve Fund	0.00	3.89	-3.89
	Total	0.00	3.89	-3.89

2.20. Other Income

The Other Income for the FY 2022-23 as approved by the Hon'ble Commission is provided in the table below. P&ED is not proposing any changes to the approved Other Income.

Table 2.20: Other Income FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Non Tariff Income	3.20	11.20	8.00
	Total	3.20	11.20	8.00

2.21. Return on Equity

The Hon'ble Commission did not approve Return on Equity for the FY 2022-23.

Table 2.21: Return on Equity FY 2022-23

(In ₹ Crores)

Sl. No.	Particulars	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Return on Equity	0.00	0.00	0.00
	Total	0.00	0.00	0.00

2.22. Revenue from sale of power

P&ED has calculated the Revenue from sale of power for the FY 2022-23 on the basis of the revised sale and existing tariff. The Revenue from sale of power for the FY 2022-23 on the basis of the existing tariff & Revenue on the basis of the revised sale is provided in the table below:

Table 2.22: Revenue at Existing Tariff

(In ₹ Crores)

Sl. No.	Category	Revenue at Existing Tariff
	LT Consumers	
1	Kutir Jyoti	2.77
2	Domestic	166.19
3	Non-Domestic	6.72
4	Commercial	29.55
5	Public Lighting	2.42
6	Agriculture	0.03
7	Public Water Works	0.90
8	Industrial	3.18
	Total LT	211.75
	HT Consumers	
9	Domestic	3.83
10	Non-Domestic	0.23
11	Commercial	9.92
12	Agriculture	0.01
13	Public Water Works	108.52
14	Industrial	5.42
15	Bulk Supply	20.00
	Total HT	147.95
16	Outside State - Trading	38.34
	Total	398.04

2.23. Aggregate Revenue Requirement

It is submitted that P&ED has proposed revisions in few components of Aggregate Revenue Requirement approved by the Hon'ble Commission in the MYT Order dated 12.03.2018 and the same has been discussed in the paras above. The approved ARR and the revised ARR & the corresponding Revenue Gaps at existing tariff is provided in the table below:

Table 2.23: Annual Revenue Requirement FY 2022-23

(In ₹ Crores)

Sl. No.	Item of Expense	Approved in T.O. dated 12.03.2018	Proposed by P&ED	Deviation
1	2	3	4	5
1	Cost of Fuel	0.01	0.01	0.00
2	Cost of Generation	9.65	3.15	-6.50
3	Cost of Power Purchase	228.82	468.61	239.79
4	Transmission Charges	58.48	56.78	-1.70
5	Intra State Transmission	38.88	51.45	12.57
6	Employee Costs	60.53	152.98	92.45
7	R&M Expenses	8.87	10.18	1.31
8	Administration and General Expenses	1.76	5.16	3.40
9	Depreciation	7.33	2.82	-4.51
10	Interest charges	0.25	0.46	0.21
11	Interest on Working Capital	6.05	6.53	0.48
12	Interest on Consumer Security Deposit	0.00	0.61	0.61
13	Provision for bad debts	0.00	0.00	0.00
14	Return on NFA /Equity	0.00	0.00	0.00
15	Contribution to Contingency Reserve Fund	0.00	3.89	3.89
16	Total Revenue Requirement	420.63	762.63	342.00
17	Less: Non Tariff Income	3.20	11.20	8.00
18	Less: 1/3 Surplus transferred	0.00	0.00	0.00
19	Less: Efficiency Gains (for dues collection)	0.00	0.00	0.00
20	Net Revenue Requirement	417.43	751.42	333.99
21	Less: Revenue from Sale of Power	395.15	398.04	2.89
22	Net Gap	22.28	353.38	331.10

3. Tariff Proposal for FY 2022-23

P&ED in the previous sections has discussed the Aggregate Revenue Requirement for the FY 2022-23 and the revenue gap at the existing tariff. In this section, tariff proposal of the Department for recovery of the ARR has been discussed.

3.1. Recovery of Revenue Gap for FY 2022-23

The estimated gap for the FY 2022-23 has been computed by deducting the revenue at existing tariff from the net ARR as detailed above.

P&ED does not propose to recover the entire Gap as these may result in huge burden on the consumers. Tariff is a sensitive subject having substantial impact on social, economic and financial well-being of the public at large as well as the viability and growth of power sector. Recovery of entire Gap through tariff increase is not practicable as this would make power unaffordable to the general consumers. P&ED being a Government Department funded by budgetary support from State Government, it proposes to absorb the unrecovered gap.

In view of the above, the tariff proposal for the FY 2022-23 for various categories of consumers is given below along with the comparison with existing tariff.

Table 3.1: Tariff – Existing vs. Proposed

Sl. No.	Type of installation	Existing		Proposed	
		Energy Charges (₹/Month)	Fixed Charges (In ₹)	Energy Charges (₹/Month)	Fixed Charges (In ₹)
		A	B	A	B
1	Kutir Jyothi				
i)	First 20 kWh	2.50/kWh	25/Connection	2.90/kWh	35/Connection
ii)	Balance above 20 kWh	3.15/kWh	25/Connection	3.80/kWh	35/Connection
2	Domestic				
A	LT				
i)	First 100 kWh	4.80/kWh	50/Contracted Load in Kw	5.10/kWh	60/Contracted Load in Kw
ii)	Next 100 kWh	5.50/kWh	50/Contracted Load in Kw	7.50/kWh	60/Contracted Load in Kw
iii)	Balance above 200 kWh	5.90/kWh	50/Contracted Load in Kw	9.50/kWh	60/Contracted Load in Kw
B	HT	6.45/kVAh	50/Billing Demand in KVA	11.00/kVAh	60/Billing Demand in KVA
3	Non-Domestic				
A	LT				
i)	First 150 kWh	6.10/kWh	60/Contracted Load in Kw	10.20/kWh	70/Contracted Load in Kw
iii)	Balance above 150 kWh	6.25/kWh	60/Contracted Load in Kw	10.60/kWh	70/Contracted Load in Kw
B	HT	6.30/kVAh	60/Billing Demand in KVA	11.20/kVAh	70/Billing Demand in KVA
4	Commercial				
A	LT				
i)	First 150 kWh	6.80/kWh	80/Contracted Load in Kw	10.80/kWh	95/Contracted Load in Kw
iii)	Balance above 150 kWh	7.05/kWh	80/Contracted Load in Kw	11.10/kWh	95/Contracted Load in Kw
B	HT	7.10/kVAh	80/Billing Demand in KVA	11.20/kVAh	95/Billing Demand in KVA
5	Public Lighting	10.00/kWh	80/Contracted Load in Kw	13.90/kWh	95/Contracted Load in Kw
6	Irrigation & Agriculture				
A	LT	3.65/kWh	50/Contracted Load in Kw	4.40/kWh	50/Contracted Load in Kw
B	HT	3.60/kVAh	50/Billing Demand in KVA	4.30/kVAh	50/Billing Demand in KVA
7	Public Water Works				
A	LT	9.90/kWh	90/Contracted Load in Kw	13.90/kWh	100/Contracted Load in Kw
B	HT	9.80/kVAh	90/Billing Demand in KVA	11.80/kVAh	100/Billing Demand in KVA
8	Industrial				
A	LT				
i)	First 400 kWh	5.80/kWh	80/Contracted Load in Kw	10.00/kWh	90/Contracted Load in Kw
ii)	Balance above 400 kWh	6.35/kWh	80/Contracted Load in Kw	10.40/kWh	90/Contracted Load in Kw
B	HT	7.05/kVAh	80/Billing Demand in KVA	10.80/kVAh	90/Billing Demand in KVA
9	Bulk Supply	7.10/kVAh	90/Billing Demand in KVA	8.00/kVAh	100/Billing Demand in KVA
10	Temporary Connection & Theft				

3.2. Revenue at Proposed Tariff

Based on the tariff proposed, following is the summary of the revenue.

Table 3.2: Revenue at Proposed Tariff

(In ₹ Crore)

Sl. No.	Category	Revenue at Proposed Tariff
	LT Consumers	
1	Kutir Jyoti	3.40
2	Domestic	184.25
3	Non-Domestic	10.67
4	Commercial	45.36
5	Public Lighting	3.35
6	Agriculture	0.04
7	Public Water Works	1.25
8	Industrial	5.11
	Total LT	253.43
	HT Consumers	
9	Domestic	6.34
10	Non-Domestic	0.39
11	Commercial	15.20
12	Agriculture	0.01
13	Public Water Works	129.69
14	Industrial	8.05
15	Bulk Supply	22.43
	Total HT	182.10
16	Outside State	38.34
	Total	473.88

3.3. Additional Revenue from proposed Tariff

Based on the tariff proposed above, following is the summary of the additional revenue at the proposed tariff rates.

Table 3.3: Additional Revenue

(In ₹ Crores)

Sl. No.	Particulars	FY 2022-23
1	2	3
1	Additional Revenue from Proposed Tariff	75.83
	Total	75.83

3.4. Impact of Tariff on Consumers

The revenue gap and the average tariff hike proposed are presented in the table below:

Table 3.4: Impact of Tariff

Sl. No.	Particulars	Units	FY 2022-23	
			Existing	Proposed
1	ARR	₹ in Crores	751.42	751.42
2	Revenue from tariff	₹ in Crores	359.70	435.54
3	Revenue from sale of power out side the state	₹ in Crores	38.34	38.34
4	Total Revenue	₹ in Crores	398.04	473.88
5	Gap (1 - 2 - 3)	₹ in Crores	353.38	277.55
6	Sales within State	MUs	494.99	494.99
7	Sale of power out side the state	MUs	101.10	101.10
8	Total Sales	MUs	596.09	596.09
9	Average Cost of Supply within state $\{(1-3)/6\}$	₹ per kWh	14.41	14.41
10	Average Revenue (2/6)	₹ per kWh	7.27	8.80
11	Pure Gap (9-10)	₹ per kWh	7.14	5.61
12	Average Hike in Tariff	₹ per kWh		1.53
13	Hike in Tariff	%		21.05

Hence, it is submitted that the average tariff required to recover the gap attributable to FY 2022-23 is ₹ 7.14/kWh but keeping in view the resultant burden on the consumers, the proposed hike has been restricted to ₹ 1.53/kWh.

4. Wheeling Tariff

Wheeling charges has been calculated in accordance with the Regulation 71 read with Regulation 72 of The Joint Electricity Regulatory Commission for Manipur and Mizoram (Multi Year Tariff) Regulations, 2014. Since, the P&ED is not maintaining separate accounts for the Distribution Wire Business & Retail Supply Business; the ARR of the wheeling business is arrived at in accordance with the allocation matrix as prescribed in the Regulation 72. The allocation matrix is given as below.

Table 4.1: Allocation Matrix

Sl. No	Particulars	Wire Business (%)	Retail Supply Business (%)
1	2	3	4
1	Cost of Power Purchase	0	100
2	Stand by Charges	0	100
3	Employee Expenses	60	40
4	Administration & General Expenses	50	50
5	Repair & Maintenance Expenses	90	10
6	Depreciation	90	10
7	Interest & Finance Charges	90	10
8	Interest on Working Capital	10	90
9	Interest on Consumer Security Deposit	10	90
10	Provision for Bad Debt	0	100
11	Income Tax	90	10
12	Intra- state Transmission Charges	0	100
13	Contribution to contingency reserves	100	0
14	Return on Equity	90	10
15	Non-Tariff Income	10	90

4.1 ARR for Wheeling Business

The ARR of the Wheeling Business arrived at in accordance with the above methodology is provided below:

Table 4.2: ARR of Wheeling Business

(₹ in Crores)

Sl. No.	Particulars	FY 2022-23	FY 2022-23
		Total	Wheeling
1	2	3	4
1	Cost of Power Purchase	468.61	0.00
2	Cost of Generation	3.15	0.00
3	Cost of Fuel	0.01	0.00
4	Employee Cost	152.98	91.79
5	Administration & General Expenses	5.16	2.58
6	Repair & Maintenance Expenses	10.18	9.16
7	Transmission charges	56.78	0.00
8	Intra- state Transmission Charges	51.45	0.00
9	Interest & Finance Charges	0.46	0.41
10	Interest on Working Capital	6.53	0.65
11	Interest on Consumer Security Deposit	0.61	0.06
12	Return on Equity	0.00	0.00
13	Provision for Bad Debt	0.00	0.00
14	Depreciation	2.82	2.54
15	Contribution to Contingency Reserve Fund	3.89	3.89
16	Revenue Requirement	762.63	111.08
17	Non-Tariff Income	11.20	1.12
18	Net Revenue Requirement	751.42	109.96

4.2 Wheeling Tariff

Based on the revised ARR, P&ED proposes the revised wheeling Tariff at ₹ 2.22/kWh as detailed below.

Table 4.3: Wheeling Tariff

Sl. No.	Particular	FY 2022-23
1	ARR for wheeling function	109.96
2	Total Energy sold	494.99
3	Wheeling Tariff (₹/unit)	2.22

5. Tariff Schedule

1. General Conditions of Supply (For all categories of Consumers):

1.1 Rebate/Surcharge for availing supply at voltage higher/lower than base voltage: In spite of feasibility/availability of voltage as in the classified supply voltage for corresponding load as per clause 3.2 of the JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013;

(i) For consumers having contracted load up to 50 kW – If the supply is given at HV/EHV, a rebate of 5% would be admissible on the rate of energy charge of the applicable tariff.

(ii) For consumers having contracted load above 50 kW – If supply is given at voltage lower than the base voltage for corresponding load as per clause mentioned above, the consumer shall be required to pay an extra charge of 10 % on the bill amount calculated at the applicable tariff.

(iii) All voltages mentioned above are nominal rated voltages as per clause 3.2 of the JERC for Manipur & Mizoram (Electricity Supply Code) Regulations, 2013.

1.2 Payment: All payments shall be made by way of Cash (up to the amount as acceptable to the licensee), Banker's Cheque, Demand Draft or Money Order or e-transfer on line.

1.3 Surcharge for late payment of bills: If payment is not received within due date surcharge @ 2% at simple interest on the outstanding principal amount for each 30 days successive period or part thereof will be charged, until the amount is paid in full.

1.4 Single Point Delivery: This tariff is based on the supply being given through a single point of delivery and metering at one voltage. Supply at other points at other voltage shall be separately metered and billed for and shall be considered as separate connection.

1.5 Voltage and frequency: All voltages and frequency shall be as per clause 3.1 and 3.2 of the JERC for Manipur & Mizoram (Electricity Supply Code) Regulations, 2013.

1.6 Power Factor Incentive / Surcharge:

- a) If the average monthly power factor of the consumer increases above 95%, he shall be paid an incentive at the following rate:

For each one percent increase by which his average monthly power factor is above 95%, up to unity power factor	One percent (1%) of the total amount of the bill under the head 'energy charge'
--	---

- b) If the average monthly power factor of the consumer falls below 90%, he shall pay a surcharge in addition to his normal tariff, at the following rate:

For each one percent by which his average monthly power factor falls below 90% up to 85%	One percent (1%) of the total amount of the bill under the head 'energy charge'
--	---

- c) If average monthly power factor of the consumer falls below 85%, he shall pay a surcharge in addition to his normal tariff at the following rate:

For each one percent by which his average monthly power factor falls below 85%	Two percent (2%) of the total amount of the bill under the head 'energy charge'
--	---

- d) If the average monthly power factor of the consumer falls below 70%, then the utility shall have the right to disconnect supply to consumer's installation after serving a notice of 15 days. Supply may be restored only after steps are taken to improve the power factor to the satisfaction of the Utility. This is, however, without prejudice to the levy of surcharge for low power factor in the event of supply not being disconnected.

- e) For this purpose, the “average monthly power factor” is defined as the ratio of total ‘Kilo Watt hours’ to the total ‘Kilo Volt Ampere hours’ recorded during the month. This ratio will be rounded off to two figures after decimal. Figure 5 or above, in the third place after decimal being rounded off to the next higher figure in the second place after decimal.
- f) Notwithstanding the above, if the average monthly power factor of a new consumer is found to be less than 90% at any time during the first 6 (six) months from the date of connection, and if he maintains the average monthly power factor in subsequent three months at not less than 90%, then the surcharge billed on account of low power factor during the said period, shall be withdrawn and credited in next month’s bill.

1.7 Transformation loss: The consumers getting their supply at HT and metered on the LT side shall be charged transformation loss in kWh as per clause 5.7 JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013. The same is reproduced for convenience sake:

- (1) The average losses in the transformer shall be calculated as follows and added to the energy consumption indicated by the meter:

$$\text{Average loss (kWh)} = \frac{730 \times 1.0 \times C}{100} \text{ Units per month}$$

where C = KVA rating of the transformer.

- (2) The transformer loss arrived at by the above formula shall be added to the energy consumption, even when the recorded energy consumption is nil.
- (3) 1% of the transformer capacity for transformer above 63 KVA will be added to the recorded maximum demand on the Low Tension side to arrive at the equivalent High Tension demand.

1.8 Rounding of Contracted Load/billing demand: For the purpose of calculation of fixed/demand charge in the monthly billing, the contracted load/billing demand shall be taken on actual basis (not to be rounded), except for load less than 500 W. Load less than 500 W shall be taken as 0.5 kW for calculation of fixed/demand charge in the monthly billing. Fixed/Demand charge in the monthly billing shall be calculated as follows: - Fixed/Demand charge per month = Contracted load (in kW) / Billing demand (in kVA) x Rate of fixed charge per month per kW/kVA (as the case may be).

Sample calculation for Domestic Purpose (1) 1.24KW (2) 0.36 kW, Fixed charge for Domestic is Rs. 40.00 per kW of contracted load. Sample 1: - Fixed charge = 1.24 x 40 = Rs. 49.60 = Rs. 50.00. Sample 2: - Fixed charge = 0.36 kW (=0.50 kW after rounding) x 40 = Rs. 20.00. Note Fraction of rupees is rounded as per clause 1.9 of this tariff schedule and load below 0.5 kW is rounded to 0.5 kW as per clause 1.8 of this tariff schedule.

1.9 Rounding of Rupees: Each components of bill, such as energy charge, fixed/demand charge, meter rent, surcharge, rebate of any kind, etc., including interest, involving fraction of a rupee should be individually round off to nearest rupee (fraction of 50 paisa and above to be round off to the next higher rupee and fraction less than 50 paisa to be ignored). In case of non-availability/scarcity of small change of rupees less the Rs. 10, consumer may be allowed to tender next higher amount divisible by 10. Such over tendered amount shall be carried to next bill as credit and shall not earn interest whatsoever.

1.10 System of LT supply

1.10.1 LT supply

- i) Alternating current, 50 Hz, single phase 230 Volts up to 8kW
- ii) Alternating current, three phase, 400 Volts for loads above 8 kW, subject to the availability of supply. Wherever 3-phase connection is required for load less than or equal to 8 kW, necessary justification shall be provided along with such request for consideration of licensee for extending such supply.

1.10.2 HT Supply: Supply of Electricity to the Consumers at voltage above 400V as per clause 3.2 of JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013.

1.11 The maximum demand: The maximum demand means the highest load measured in average kVA or kW at the point of supply of a consumer during any consecutive period of 30 (thirty) minutes during the month or the maximum demand recorded by the MDI during the month.

1.12 Billing demand: The billing demand shall be the maximum demand or 75% of the contracted demand whichever is higher.

1.13 Tax or Duty: Applicable GST shall be charged/added on (i) Application Fee for releasing connection of electricity, (ii) Rental Charges against metering equipment, (iii) Testing Fee for meters/transformers, capacitor etc. & (iv) Labour Charges from customers for shifting of meters or shifting of service lines.

The tariff does not include any other tax or duty, etc., except GST described in the above para that may be payable at any time in accordance with any law/ State Government Rules in force. Such charges, if any, shall be payable by the consumer in addition to tariff charges.

1.14 Contingency: In case of any inconsistency between this Tariff schedule and the prevailing JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013, the provision, meaning and content of the said Code shall prevail.

2. LT Supply

2.1 LT Category-1: Kutir Jyoti

Applicability: Applicable to all household who has been given connection under Kutir Jyoti Scheme or similar connection under any scheme of the State

Government or Central Government for the benefit of poorer section for domestic purpose. If the total consumption in three months exceed 45 kWh, as per existing norms of KJS unless superseded by other new norms, the connection should be converted to Category-2 (Domestic).

Tariff Rates:

- a) Fixed charge : Rs 35.00 per month per connection.
- b) Energy charge per month:-
 - 1) First 20 kWh : @ Rs 2.90 per kWh.
 - 2) Balance above 20 kWh : @ Rs 3.80 per kWh.

2.2 LT Category - 2: Domestic.

Applicability: Applicable for supply of energy exclusively for domestic purposes only in domestic premises. The Tariff is applicable to supplies for general domestic purposes such as Light, Fans, Heating devices, Television, VCR/VCP, Radio, Refrigerator, Air-conditioner, lift motors and all others appliances only for bona-fide residential used. This tariff is also applicable to orphanage/recognized charitable institutions where no fees/rental of any kind are charged whatsoever. This will not be applicable to institutions conducting commercial activities of any nature.

Tariff Rates:

- a) Fixed charge : Rs 60.00 per month per kW of contracted load.
- b) Energy charge per month:-
 - 1) First 100 kWh : @ Rs 5.10 per kWh.
 - 2) Next 100 kWh : @ Rs 7.50 per kWh.
 - 3) Above 200 kWh : @ Rs 9.50 per kWh.

Note: *If any part of the domestic connection is utilized for any use other than dwelling purpose like commercial, industrial, etc., a separate connection should be taken for such loads under appropriate category, failing which the entire consumption shall be treated as the case may be, in the corresponding category with applicable tariff.*

2.3 LT Category - 3: Non-Domestic

Applicability: This tariff is applicable to all lights, all types of fans, heating devices, Television, VCR/VCP, Radio, Refrigerator, Air Conditioner, lift motors, pump and all other appliances for the purpose of public interest including other small power. This tariff includes power loads for non-domestic purposes like Government offices, hospitals, nursing homes, clinics, dispensaries, health centres; Government Institutions, schools, colleges, libraries, research institutes, boarding/lodging houses; Government rest houses, tourist lodges, guest house, circuit house, rest house; Public buildings, community halls/YMA halls, religious premises like churches, temples, mosques, gurudwaras, religious offices.

Tariff Rates:

a) Fixed charge : Rs 70.00 per month per kW of contracted load.

b) Energy charge per month:-

- | | | |
|------------------|---|---------------------|
| 1) First 150 kWh | : | @ Rs 10.20 per kWh. |
| 2) Above 150 kWh | : | @ Rs 10.60 per kWh. |

2.4 LT Category - 4: Commercial

Applicability: This tariff is applicable to all lights, all types of fans, heating devices, Television, VCR/VCP, Radio, Refrigerator, Air Conditioner, lift motors, pump and all other appliances for private gain including other small power. This tariff includes power loads for commercial purposes like Semi- government/non-government offices, shops, hospitals, nursing homes, clinics, dispensaries, health centres, restaurants, bars, hotels, clubs, guest houses, rest houses, tourist lodges, picnic spots, resorts, farm/garden houses, clubs, markets, optical houses, stadiums, meeting/conference halls, all types of studios, tea stalls, professional chambers (like Advocates, chartered Accountants, consultants, Doctors, etc.), private trusts, marriage houses, public halls, show rooms, centrally air-conditioning units, commercial establishments, X-ray plants, diagnostic centres, pathological labs, carpenters and furniture makers, repair workshops, laundries, typing institutes,

internet cafes, STD/ISD PCO's, FAX/photocopy shops, tailoring shops, Non-Government Institutions, schools, colleges, libraries, research institutes, boarding/lodging houses, railway stations, fuel/oil stations/pumps, bottling or filling stations/plants, service stations, Railway/Bus stations/terminals, All India radio/T.V. installations, printing presses, commercial trusts, societies, banks, financial institutions, theatres, cinema halls, circus, coaching institutes, common facilities in multi-storeyed commercial offices/buildings, public museums, Crematoriums, graveyards, orphanages/recognized charitable institutions where rental or fees of any kind are charged, non-recognized charitable institutions, power supply to telecommunication system/towers and others applications not covered under any other categories.

Tariff Rates:

- a) Fixed charge : Rs 95.00 per month per kW of contracted load.
- b) Energy charge per month:-
 - 1) First 150 kWh : @ Rs 10.80 per kWh.
 - 2) Above 150 kWh : @ Rs 11.10 per kWh.

2.5 LT Category - 5: Public Lighting

Applicability: Applicable to Public Street Lighting System in municipality, Town, Committee, Sub-Town/Village, etc. including Signal system and Road and Park lighting in areas of Municipality Town/Committee, Sub-Town/Village, etc.

Tariff Rates:

- a) Fixed charge : Rs 95.00 per month per kW of contracted load.
- b) Energy charge per month:-
 - All kWh : @ Rs 13.90 per kWh.

2.6 LT Category - 6: Public Water Works

Applicability: Applicable to all public water supply system.

Tariff Rates:

- a) Fixed charge : Rs. 100.00 per month per kW of contracted load.
b) Energy charge per month:-
All kWh : @ Rs 13.90 per kWh

2.7 LT Category - 7: Irrigation & Agriculture

Applicability: This tariff is applicable to irrigation/pumping for agricultural purpose only.

Tariff Rates:

- a) Fixed charge : Rs 50.00 per month per kW of contracted load.
b) Energy charge per month:-
All kWh : @ Rs. 4.40 per kWh

2.8 LT Category - 8: Industrial

Applicability: Applicable for supply of energy for Industrial purposes, such as manufacturing/ processing of goods, cold storage plants/units, sewerage pumping stations, all types of workshops using electrical energy for such works, power looms, weaving houses, carpentry works, steel fabrication works, tier rethreading works, black-smithy, Gold-smithy, saw mills, flour/rice mills, oil mills, re-rolling mills, motor body building works, coffee/ginger/turmeric processing units, winery plants, fruits processing plants, Ice candy units, fodder cutting units, poultry farming/ hatchery units, silk rearing/processing units, pisciculture, prawn culture units, mushroom production units, floriculture in green houses, sugarcane crushing, milk/meat processing units, bamboo processing units, paper/ steel/aluminum recycling units, construction of power generating stations/substations and power supply to any generating stations.

Tariff Rates:

- a) Fixed charge : Rs. 90.00 per month per kW of contracted load.

b) Energy charge per month:-

- 1) First 400 kWh : @ Rs 10.00 per kWh.
- 2) Above 400 kWh : @ Rs 10.40 per kWh.

3. HT Supply: The tariffs are applicable for Consumer availing supply at voltage above 400 V irrespective of connected load/contracted demand. It is mandatory to supply with voltage above 400 V, to consumer having a contracted Load of above 50 kW or Contract Demand of above 59 kVA, as per clause 3.2 of JERC for M&M (Electricity Supply Code) Regulations, 2013

3.1 HT Category - I: Domestic

Applicability: This tariff is applicable to similar purposes as defined in LT category- 2 as below:

Tariff Rates:

- a) Demand charge : Rs 60.00 per month per kVA of Billing demand.
- b) Energy charge per month:-
 - All KVAh : @ Rs 11.00 per KVAh

3.2 HT Category - 2: Non- domestic

Applicability: This tariff is applicable to similar purposes defined in LT Category-3 as below:

Tariff Rates:

- a) Demand charge : Rs 70.00 per month per kVA of Billing demand.
- b) Energy charge per month: -
 - All KVAh : @ Rs 11.20 per KVAh

3.3 HT Category - 3: Commercial

Applicability: This tariff is applicable to similar purposes defined in LT Category-4 as below:

Tariff Rates:

- a) Demand charge : Rs 95.00 per month per kVA of Billing demand.
b) Energy charge per month: -
All KVAh : @ Rs 11.20 per KVAh

3.4 Category 4: Public Water Works (PWW)

Applicability: This tariff is applicable to similar purposes defined in LT Category-6 as below:

Tariff Rates:

- a) Demand charge : Rs 100.00 per month per kVA of Billing demand.
b) Energy charge per month: -
All KVAh : @ Rs 11.80 per KVAh

3.5 HT Category - 5: Irrigation & Agriculture

Applicability: This tariff is applicable to irrigation / pumping for agricultural purpose only as below:

Tariff Rates:

- a) Demand charge : Rs 50.00 per month per kVA of Billing demand.
b) Energy charge per month:-
All KVAh : @ Rs 4.30 per KVAh

3.6 HT Category - 6: Industrial

Applicability: This Tariff is applicable to similar purpose defined in LT Category – 8 as below:

Tariff Rates:

- a) Demand charge : Rs 90.00 per month per kVA of Billing demand.
b) Energy charge per month:-
All KVAh : @ Rs 10.80 per KVAh

3.7 HT Category - 7: Bulk supply within the State

Applicability: Applicable for HT Consumers having single point metering of mixed load of housing complex, multistoried building, Military Engineering Service (MES), Border Road Task Force (BRTF), etc. where the supply is used predominantly for domestic purpose (with domestic load not less than 85 % of the total load) and internal maintenance of power supply is carried out by the bulk consumers. Tariff Rates are as below:

Tariff Rates:

- a) Demand charge : Rs 100.00 per month per kVA of Billing demand.
- b) Energy charge per month: -
 - All KVAh : @ Rs 8.00 per KVAh

4. Temporary Supply:

Applicability: Temporary power supply shall be given through correct meter and carried out as per procedure laid down in clause 4.56 to 4.70 of the JERC for Manipur & Mizoram (Electricity Supply Code) Regulations, 2013. Bill shall be served at the following rates:

Tariff Rates:

- a) Fixed / Demand charge: 1.5 times the rate of fixed/demand charge of the applicable tariff category for which power supply is given.
- b) Energy charge per month: 1.5 times the rate of the highest rated slab of the applicable tariff category for which energy is supplied.

5. Computation of un-metered energy:

(1) This shall be applicable to consumer (inclusive of street lightings) without meter from initial connection and have not been covered under any of the metering schemes. The monthly energy consumption shall be computed as below which shall be evaluated as per tariff of the applicable category of consumer:

Energy consumption = L x H x F x D

Where

L = Contracted load in kW/Billing Demand in kVA, (as per clause 1.8 of

this tariff schedule)

H = (a) For consumer in general:- Total number of hours in a month during which power is actually supplied to that consumer through that feeder / through that DT concerned, whichever is less, (after taking into account all interruptions of power feeding that) or (730 minus total hours interruptions of power feeding that consumer). where 730 is average number of hours in a month in a non-leap year. (Note: - Interruption shall mean breakdowns of Feeders, Part of feeder, Distribution Transformer, load shedding, all types of shut downs which should be recorded and informed to concerned billing station)

(b) For street lights: - Total number of hours in a month during which power is actually supplied to street lights through that feeder / through that DT concerned, whichever is less, (after taking into account all interruptions of power feeding that) or (365 minus total hours interruptions of power feeding that street light). where 365 is average number of hours between 5 pm to 5 am in a month in a non-leap year. (Note: - Interruption shall mean breakdowns of Feeders, Part of feeder, Distribution Transformer, load shedding, all types of shut downs which occurs between 5 pm and 5 am. which should be recorded and informed to concerned billing station)

F = Load Factor shall be as stipulated for theft cases in ANNEXURE 11.19 of the Joint Electricity Regulatory Commission for Manipur & Mizoram (Electricity Supply Code) Regulations, 2013. Which is reproduced for convenience sake: -

Sl. No.	Particulars	Load factor
1.	Domestic (LT/HT)	40%
2.	Non-domestic/Commercial (LT/HT)	50%
3.	Industrial (LT/HT)	75%
4.	Public Water supply (LT/HT)	50%
5.	Bulk supply	50%
6.	Agriculture/Irrigation (LT/HT)	50%
7.	Street light	50%
8.	Direct theft – All categories	100%

D = Demand factor which shall be taken as (1) 50%. In case of street lighting,
(2) 35% in case of other consumption.

- (2) **Short period of unmetered supply:** For un-meter (meter not available) supply as a result of defective, burnt, lost meter shall be treated as per 6.11 – 6.13 Of the JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013.

Note: The licensee shall install energy meter within three (3) months from the effective date of this Tariff Order 2015-16 and shall regularized the assessed consumption based on average three (3) months record of metered consumption and adjustment of bill shall be done accordingly.

- (3) **For Un-authorized consumer/theft (includes by-pass of meter)/pilferage and cases cover by section 135 of the Act:** The energy consumed shall be computed as per Annexure 11.1.19 Of the JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013. The energy so computed shall be evaluated as follows:-

(a) Load less than 10 kW

(1) First instance:- Three (3) times of the rate of the applicable tariff (fixed and variable charges) for which the stolen energy was utilized.

(2) Second and subsequent instance:- Six (6) times of the rate of the applicable tariff (fixed and variable charges) for which the stolen energy was utilized.

(b) Load exceeding 10 kW

(1) First instance: Three (3)) times of the rate of the applicable tariff (fixed and variable charges) for which the stolen energy was utilized.

(2) Second and subsequent instance:- Six (6) times of the rate of the applicable tariff (fixed and variable charges) for which the stolen energy was utilized.

Note:- Additional punishment of theft shall be as per Electricity Act 2003 (with latest amendment) and as per the JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013.

6. Miscellaneous Charges (Part of Non-Tariff Income)

- 6.1 Meter Rent for non-prepaid meters:** Monthly charges for hiring of the meter, indicator shall be as follows:

6.1.1 LT Metering:

- a) AC ,Single phase Energy meter whole current : Rs.20.00 per Month.
- b) AC, Three phase Energy meter, whole current : Rs.35.00 per Month.
- c) AC, Three phase Energy meter, CT operated : Rs.50.00 per Month.
- d) Any other type of meter/indicator : Rs.100.00 per Month.

6.1.2 HT Metering:

- a) AC, Three phase Energy meter, CT & PT operated : Rs.200.00 per Month.
- b) Any other type of meter/indicator : Rs.300.00 per Month.

6.2. Pole/Tower usage charge per month

6.2.1 For supporting of internet/media/telephone cables: This charge shall be borne by Operator/Distributor of visual media network.

- a) **Rs 10.00 per pole per cable per month** in case of internet cable/ media cables/visual media cables
- b) **Rs 20.00 per pole per month per cable** in case of landline telephone cable. (a cable having up to 5 pair of lines shall be taken as one cable for this purpose) Telephone cable having more than 5 pairs shall be considered as 2, 3 etc, by dividing actual number of pairs by 5 to arrive at equivalent number of cables. Any fraction shall be rounded to next higher integer.

6.3. Other charges for meter:

(a) Meter shifting charge:

- i) Rs. 200.00 per shifting if resulted from reconstruction/modification of building by consumer or at consumer's request.
 - ii) Free of cost if shifting is done in the interest of work.
- Meter shifting shall be carried out as per Chapter – 5 of the JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013.

- (b) The cost of replacement and execution charge:** Utility shall have stock of energy meter as per clause 5.51 of the JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013. Replacement of meter shall be carried out as per clause 5.31 to 5.50 of the same code mentioned above. Charges for other materials will be extra.
- i) Execution charge for re-installation/installation of meter: -**
- a) For existing consumer shall be Free of cost.
 - b) For disconnected consumer with meter removed: - Rs 100.00
 - c) For new consumer, it shall be included in the cost of service connection as under execution charges.
- ii) Cost of Energy Meters supplied by Licensee:** As per the Licensee's purchase rate plus 15% Licensee's charge if supplied from the Licensee (energy meters approved / tested by the Licensee only shall be used. However, when the cause leading to subsequent replacement is either manufacturing defect or fault of licensee then, it shall be free of cost.
- c) Testing charge of Meter at the request of consumers:** (Testing charge is inclusive of costs of meter re-sealing materials/equipment).
- i) For AC single phase LT energy meter: Rs.75.00 per meter per testing.
 - ii) For AC three phase LT energy meter, whole current: Rs.100.00 per meter per testing.
 - iii) For AC three phase LT energy meter, CT operated: Rs.200.00 per meter per testing.
 - iv) For energy meter AC three phase, CT & PT operated: Rs.300.00 per meter per testing.
 - v) For any other type of meter HT supply: Rs.300.00 per meter per testing.

In case the meter supplied by the Licensee fitted to the consumer premises is found to be defective from initial fitting, testing and replacement of meter shall be carried out as per clause 5.31 to 5.50 of the JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013.

6.4 Testing charge of Consumer's Installation: The first test and inspection will be carried out free of cost as per Clause 4.47 of JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013. Should any further test or inspection be necessitated due to fault in the installation or due to non-compliance with the condition of supply by the consumer an extra charge of Rs.150.00 per test, payable in advance, shall be levied. In the event of the consumer failing to pay the testing charge in advance within stipulated time, the Licensee will be at liberty to disconnect the consumer's premise from the supplier's main.

6.5 Disconnection and Reconnection:

(1) Disconnection: Disconnection of an installation in all cases will be free of charges.

(2) Reconnection: Reconnection charge shall be as follow: -

(a) Disconnected consumer due to safety measures shall be free of charge.

(b) Disconnection due to non-payment any kind of liabilities shall be: -

(i) For AC single phase LT supply : Rs.100.00

(ii) For AC three phase LT supply : Rs.150.00

(iii) For AC HT supply : Rs.400.00

Note: - Extra material required will be chargeable.

6.6 Change of category: Change of category will be carried out as per clause 4.72 to 4.80, clause 4.85 to 4.86 and 4.90 to 4.93 of the Joint Electricity Regulatory Commission for Manipur and Mizoram (Electricity supply Code) Regulations, 2013.

6.7 Mutation Fee: Mutation fee i.e fee for change of name shall be Rs 50.00 per change. This shall be carried out as per clause 4.81 to 4.84 of the Joint Electricity Regulatory Commission for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013.

6.8 Charges for Replacement of Connection Wire, Cut-out, Fuse, etc.: Cost of replacement after initial fixation of connection wire, cut-out, fuses, etc. will be

borne by the consumers and shall be payable by the consumer in advance as per purchase rate of the Licensee plus 15% Licensee's charges if the Licensee supplies the materials, or the consumer may arranged required materials as per the required specifications of the Licensee. The execution charge shall be as follows:

(1) For Cable and wire:-

(a) Single phase connection: Rs. 400.00 per connection.

(b) LT three phase connection: Rs. 600.00 per connection.

(c) HT three phase connection: Rs. 900.00 per 100 meters of the HT line.

(2) For Cut out & Fuse: -

(a) Rs 10.00 per cut out.

(b) Rs 3.00 per fuse

6.9 Re-rating of Installation: This charge is for meeting expenses toward spot verification of load and other connected recording works. Charge for re-rating of the consumer's installation at the request of the consumer shall be Rs. 150.00 per rerating per connection.

These charges shall be payable by the consumer in advance. The aforesaid charges do not include the charges payable by the consumer for other works connected due to change of connected load. Rerating shall be carried out as per clause 4.94 to 4.107 of the JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013.

6.10 Meter Security (if Licensee's meter is used): The amount of Security deposit for meter security shall normally be the price of the meter as fixed by the licensee from time to time.

6.11 Charges for Replacement of temper proof Meter Housing Box: For AC single phase LT or three phases LT without CT or with CT, the energy meter box if

replaced from Licensee's store: The charge will be as per Licensee's purchase rate plus 15% towards Licensee's charge.

6.12 Charges for Testing of Transformer Oil:

- (a) For first sample of oil: Rs.150.00 per sample.
- (b) For the next additional sample of oil of the equipment received at the same time of the first sample: Rs.100.00 per sample.

6.13 Service Lines & Service Connection:

- (a) **Type of Service Connection:** Type of service connection and distance for service connection line length will be as per clause 4.2 read with clause 5.10 of the JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013.
- (b) **Cost of Service Connection:** As stipulated in Clause 4.37 & 4.131 of the JERC for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013. If the consumer desires to arrange service connection materials, the Licensee (not below rank of Junior Engineer concerned) will check all the materials.

6.14 Cost of Application Form: The application form shall be free of cost vide clause 4.14 of the Joint Electricity Regulatory Commission for Manipur and Mizoram (Electricity Supply Code) Regulations, 2013.

6.15 Load Security: The amount of load/meter security shall be calculated as per the procedure prescribed in clause 4.123 – 4.127 and determine as per Annexure 11.18 of the JERC for M&M (Electricity Supply Code) Regulations, 2013.

6. Compliance Status of Directives

It is submitted that the P&ED is compiling the compliance status of the directives given by the Hon'ble Commission in the Tariff order and shall submit separately. It is requested that the Hon'ble Commission may kindly allow the same.

**P&ED, Government of Mizoram - Expected Revenue from Existing Tariff
For the FY 2022-23**

Sl. No.	Category	Consumers	Connected Load (in kW)	Annual energy Sales (in MU)	Sales/ Consumer/ Month (in kWh)	Fixed Charge (₹/kW)	Energy Charge (₹/kWh)	Revenue / month				Annual Revenue (in ₹ Crores)	Av. Realisation (₹/kWh)
								Total Fixed Charges (in ₹ Crores)	Energy Charge/ Consumer (in ₹)	Total Energy Charge (in ₹ Crores)	Total Revenue (in ₹ Crores)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	KJ(Domestic)												
i)	First 20 kWh	12317		3.55	24.03		2.50		60.08	0.07			
ii)	Balance above 20 kWh	9501		4.37	38.34		3.15		107.77	0.10			
	Sub Total	21818	4261.16	7.92		25		0.05		0.18	0.23	2.77	3.50
2	Domestic												
i)	First 100 kWh	129077		113.06	72.99		4.80		350.35	4.52			
ii)	Next 100 kWh	67787		94.93	116.70		5.50		571.85	3.88			
iii)	Balance above 200 kWh	48562		96.01	164.76		5.90		822.08	3.99			
	Sub Total	245427	291607.08	304.01		50		1.46		12.39	13.85	166.19	5.47
3	Domestic HT	28	6004.70	4.79	16095.71	50	6.45	0.03	103817.33	0.29	0.32	3.83	8.00
	Total Domestic	267273	301872.94	316.72				1.55		12.85	14.40	172.79	5.46
4	Non-Domestic												
i)	First 150 kWh	5724		3.35	48.70		6.10		297.07	0.17			
ii)	Balance above 150 kWh	1899		5.69	249.97		6.25		1539.81	0.29			
	Sub Total	7623	16219.98	9.04		60		0.10		0.46	0.56	6.72	7.43
5	Non-Domestic HT	12	480.69	0.28	2135.51	60	6.30	0.00	13453.71	0.02	0.02	0.23	8.37
	Total Non-Domestic	7635	16700.67	9.32				0.10		0.48	0.58	6.95	7.46
6	Commercial												
i)	First 150 kWh	7996		19.03	198.35		6.80		1348.78	1.08			
ii)	Balance above 150 kWh	4995		18.67	311.41		7.05		2157.94	1.08			
	Sub Total	12992	38210.45	37.70		80		0.31		2.16	2.46	29.55	7.84
7	Commercial HT	309	10954.44	11.10	3328.90	80	7.10	0.10	23635.19	0.73	0.83	9.92	8.94
	Total Commercial	13301	49164.89	48.80				0.40		2.89	3.29	39.47	8.09
8	Public Lighting	1355	953.32	2.33	143.33	80	10.00	0.01	1433.30	0.19	0.20	2.42	10.39
9	PWS LT	10	293.27	0.87	7346.31	90	9.90	0.00	72728.47	0.07	0.07	0.90	10.26
10	PWS HT	77	87418.33	90.03	108011.42	90	9.80	0.87	1058511.92	8.17	9.04	108.52	12.05
11	Agl LT	39	117.97	0.07	149.03	50	3.65	0.00	543.96	0.00	0.00	0.03	4.68
12	Agl HT	2	187.43	0.11	0.00	50	3.60	0.00	0.00	0.00	0.00	0.01	0.00
13	Industrial LT												
i)	First 400 kWh	922		2.68	241.87		5.80		1402.85	0.13			
ii)	Balance above 400 kWh	166		1.80	901.72		6.35		5505.92	0.09			
	Total Industrial LT	1088	5509.19	4.47		80		0.04		0.22	0.26	3.18	7.11
14	Industrial HT	25	5981.06	6.11	22304.62	80	7.05	0.05	157247.57	0.40	0.45	5.42	8.88
15	Bulk Supply HT	251	60460.00	16.16	5952.37	90	7.10	0.60	42261.83	1.06	1.67	20.00	12.38
	Grand Total	291056	528659.05	494.99	141.72			3.64		26.34	29.98	359.70	7.27

**P&ED, Government of Mizoram - Expected Revenue from Proposed Tariff
For the FY 2022-23**

Sl. No.	Category	Consumers	Connected Load (in kW)	Annual energy Sales (in MU)	Sales/ Consumer/ Month (in kWh)	Fixed Charge (₹/kW)	Energy Charge (₹/kWh)	Revenue / month				Annual Revenue (in ₹ Crores)	Av. Realisation (₹/kWh)
								Total Fixed Charges (in ₹ Crores)	Energy Charge/ Consumer (in ₹)	Total Energy Charge (in ₹ Crores)	Total Revenue (in ₹ Crores)		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	KJ(Domestic)												
i)	First 20 kWh	12317		3.55	24.03		2.90		69.69	0.09			
ii)	Balance above 20 kWh	9501		4.37	38.34		3.80		127.69	0.12			
	Sub Total	21818	4261.16	7.92		35		0.08		0.21	0.28	3.40	4.29
2	Domestic												
i)	First 100 kWh	129077		113.06	72.99		5.10		372.25	4.80			
ii)	Next 100 kWh	67787		94.93	116.70		7.50		635.25	4.31			
iii)	Balance above 200 kWh	48562		96.01	164.76		9.50		925.22	4.49			
	Sub Total	245427	291607.08	304.01		60		1.75		13.60	15.35	184.25	6.06
3	Domestic HT	28	6004.70	4.79	16095.71	60	11.00	0.04	177052.81	0.49	0.53	6.34	13.22
	Total Domestic	267273	301872.94	316.72				1.87		14.30	16.17	193.98	6.12
4	Non-Domestic												
i)	First 150 kWh	5724		3.35	48.70		10.20		496.74	0.28			
ii)	Balance above 150 kWh	1899		5.69	249.97		10.60		2589.68	0.49			
	Sub Total	7623	16219.98	9.04		70		0.11		0.78	0.89	10.67	11.81
5	Non-Domestic HT	12	480.69	0.28	2135.51	70	11.20	0.00	23917.71	0.03	0.03	0.39	14.05
	Total Non-Domestic	7635	16700.67	9.32				0.12		0.81	0.92	11.07	11.88
6	Commercial												
i)	First 150 kWh	7996		19.03	198.35		10.80		2142.18	1.71			
ii)	Balance above 150 kWh	4995		18.67	311.41		11.10		3411.65	1.70			
	Sub Total	12992	38210.45	37.70		95		0.36		3.42	3.78	45.36	12.03
7	Commercial HT	309	10954.44	11.10	3328.90	95	11.20	0.12	37283.68	1.15	1.27	15.20	13.69
	Total Commercial	13301	49164.89	48.80				0.48		4.57	5.05	60.56	12.41
8	Public Lighting	1355	953.32	2.33	143.33	95	13.90	0.01	1992.29	0.27	0.28	3.35	14.37
9	PWS LT	10	293.27	0.87	7346.31	100	13.90	0.00	102113.71	0.10	0.10	1.25	14.30
10	PWS HT	77	87418.33	90.03	108011.42	100	11.80	0.97	1274534.76	9.84	10.81	129.69	14.41
11	Agl LT	39	117.97	0.07	149.03	50	4.40	0.00	655.73	0.00	0.00	0.04	5.43
12	Agl HT	2	187.43	0.11	0.00	50	4.30	0.00	0.00	0.00	0.00	0.01	0.00
13	Industrial LT												
i)	First 400 kWh	922		2.68	241.87		10.00		2418.70	0.22			
ii)	Balance above 400 kWh	166		1.80	901.72		10.40		9217.89	0.15			
	Total Industrial LT	1088	5509.19	4.47		90		0.05		0.38	0.43	5.11	11.42
14	Industrial HT	25	5981.06	6.11	22304.62	90	10.80	0.06	240889.90	0.61	0.67	8.05	13.17
15	Bulk Supply HT	251	60460.00	16.16	5952.37	100	8.00	0.67	47618.96	1.20	1.87	22.43	13.88
	Grand Total	291056	528659.05	494.99	141.72			4.23		32.07	36.29	435.54	8.80