

MADHYA PRADESH ELECTRICITY REGULATORY COMMISSION

5th Floor, Metro Plaza, Bittan Market, Bhopal - 462 016



AGGREGATE REVENUE REQUIREMENT AND RETAIL SUPPLY TARIFF ORDER FOR FY 2025-26

Petition No. 72/2024

PRESENT:

Gopal Srivastava, Member (Law)
Prashant Chaturvedi, Member

IN THE MATTER OF:

Determination of Aggregate Revenue Requirement (ARR) and Retail Supply Tariff for FY 2025-26 based on the ARR & Tariff Petition filed by the Distribution Licensees namely Madhya Pradesh Poorv Kshetra Vidyut Vitaran Company Limited (East DISCOM), Madhya Pradesh Paschim Kshetra Vidyut Vitaran Company Limited (West DISCOM), Madhya Pradesh Madhya Kshetra Vidyut Vitaran Company Limited (Central DISCOM), and M.P. Power Management Company Limited (MPPMCL)

Table of Contents

A1: ORDER.....	10
A2: AGGREGATE REVENUE REQUIREMENT FOR PETITIONERS.....	19
Sales Forecast	19
Energy Balance.....	22
Assessment of Energy Availability	25
Assessment of Power Purchase Cost	48
Renewable Purchase Obligation (RPO).....	69
Management of Surplus Energy	72
Inter-State Transmission Charges.....	75
Intra-State Transmission Charges and SLDC Charges	76
MPPMCL Costs: Details and DISCOM-wise Allocation	77
Summary of Power Purchase Cost.....	79
Capital Expenditure Plans/ Capitalization of Assets and Lease Charges towards Smart Meters	81
Operations and Maintenance Expenses	85
Depreciation.....	92
Interest and Finance Charges	95
Interest on Working Capital.....	100
Interest on Consumer Security Deposit	103
Return on Equity (RoE)	104
Research and Development Fund.....	107
Bad and doubtful debts	110
Other Income.....	111
Differential Bulk Supply Tariff (DBST)	113
Revenue from Existing and Admitted Tariffs and Gap/Surplus.....	120
A3: WHEELING CHARGES, CROSS SUBSIDY SURCHARGE AND ADDITIONAL SURCHARGE.....	124
Determination of Wheeling Cost	124
Determination of Cross-Subsidy Surcharge	128
Determination of Additional Surcharge	134
A4: GREEN ENERGY TARIFF.....	136
A5: FUEL AND POWER PURCHASE ADJUSTMENT SURCHARGE.....	145
A6: RETAIL TARIFF DESIGN	146
Legal Position	146
Commission's Approach to Tariff Determination	146
Linkage to Average Cost of Supply	146
Recovery of Backlog RPO Cost	150

kVAh billing for HT Consumers	152
Minimum Charges for HT Consumers	152
Changes in Tariff Design.....	152
 A7: COMPLIANCE OF DIRECTIVES ISSUED IN TARIFF ORDER FOR FY 2024-25	
.....	154
 A8: PUBLIC SUGGESTIONS AND COMMENTS ON LICENSEES' PETITION.....	175
 Annexure-1 (List of Stakeholders)	200
Annexure-2 (Tariff Schedules for Low Tension Consumers)	204
Annexure-3 (Tariff Schedules for High Tension Consumers)	229

List of Tables

Table 1 : List of Newspapers- Public Notice published by the Petitioners	10
Table 2 : Summary of Tariff proposal for FY 2025-26 as submitted by Petitioners (Rs. Crore)	11
Table 3: Status of meterisation of un-metered rural domestic consumers	12
Table 4: Status of meterisation of agricultural DTRs.....	13
Table 5: Distribution Loss Trajectory specified in the Regulations	13
Table 6: Actual Distribution Loss for FY 2023-24	14
Table 7: ARR admitted by the Commission for FY 2025-26 (Rs. Crore)	15
Table 8: ARR admitted and Revenue at Existing/Approved Tariff for FY 2025-26 (Rs. Crore)	16
Table 9: Category-wise sales projected by Petitioners for FY 2025-26 (MU).....	20
Table 10: Category wise sales admitted by the Commission for State for FY 2025-26 (MU)	21
Table 11: Energy Requirement proposed by Petitioners for FY 2025-26 (MU)	24
Table 12: Loss targets as per Regulations (in %).....	24
Table 13: Energy requirement admitted by the Commission for FY 2025-26.....	25
Table 14: Details of Capacity Addition with respect to Solar Projects during FY 2025-26	26
Table 15: Details of Capacity Addition with respect to Wind Projects during FY 2025-26	26
Table 16: Details of Capacity Addition with respect to Hydro Projects during FY 2025-26	26
Table 17: Allocated stations submitted by the Petitioners for FY 2025-26.....	26
Table 18: Month wise energy availability projection submitted by the Petitioners for FY 2025-26 (MU).....	31
Table 19: Power Plant-Wise backing down considered by the Petitioners for FY 2025-26 (MU)	36
Table 20: Allocation of Generating Station considered by the Commission for FY 2025-26	39
Table 21 : Month wise energy availability projection for FY 2025-26 (MU)	45
Table 22 : Fixed cost and Energy charges of MPPMCL allocated stations as submitted by the Petitioners for FY 2025-26	48
Table 23 : MOD for FY 2025-26 as submitted by the Petitioners	54
Table 24 : Fixed Charges and Energy Charges as Claimed by Petitioners for FY 2025-26 (Rs. Crore).....	55
Table 25: Basis of Fixed and Energy Charges considered for the generating stations for FY 2025-26	59
Table 26: MOD on allocated generating stations for FY 2025-26.....	65
Table 27 : Fixed and Energy Charges of all generating stations admitted for FY 2025-26	67
Table 28: Renewable Purchase Obligation details submitted by Petitioners for FY 2025-26.....	69
Table 29: Cost of Additional Power Purchase for RPO Compliance for FY 2025-26.....	70
Table 30: Net Cost implication proposed by Petitioners towards Renewable Purchase Obligation for FY 2025-26.....	70
Table 31: Renewable Purchase Obligation and Cost as computed by the Commission for.....	71
Table 32: RE power purchase cost for RPO compliance for FY 2025-26.....	71
Table 33: Management of Surplus Energy as submitted by Petitioners.....	73
Table 34: Surplus Energy information for last 3 years as submitted by Petitioners	74
Table 35 : Details of saving in power purchase cost through sale of Surplus energy	75
Table 36: Inter-State Transmission Charges claimed for FY 2025-26 (Rs. Crore)	76
Table 37: Inter-State Transmission Charges admitted for FY 2025-26 (Rs. Crore)	76
Table 38: Intra-State Transmission Charges and SLDC charges claimed.....	76
Table 39 : Intra-State Transmission Charges including SLDC Charges admitted	77
Table 40: MPPMCL Cost claimed for FY 2025-26 (Rs. Crore).....	78
Table 41: MPPMCL Costs/ Income admitted by the Commission for FY 2025-26 (Rs. Crore).....	79

Table 42: Power Purchase Cost as filed by Petitioners for FY 2025-26 (Rs. Crore)	79
Table 43 : Total Power Purchase cost admitted for FY 2025-26 (Rs. Crore).....	80
Table 44: Capital Expenditure Plan for FY 2025-26 (Rs. Crore)	82
Table 45 : DISCOM-wise proposed capitalization and bifurcation of CWIP (Rs. Crore).....	82
Table 46 : DISCOM-wise lease charges towards Smart Meters for FY 2025-26 (Rs. Crore)	83
Table 47: Projected Asset Capitalization considered by the Commission for FY 2025-26 (Rs. Crore)	84
Table 48 : DISCOM-wise lease charges towards Smart Meters considered by the Commission for FY 2025-26 (Rs. Crore).....	85
Table 49: Escalation Rate for FY 2023-24 and FY 2024-25 (%)	86
Table 50: Dearness Allowance Considered (%).....	87
Table 51: Additional OPEX submitted by the Petitioners (Rs Crore)	88
Table 52: O&M Expenses Claimed by the Petitioners for FY 2025-26 (Rs. Crore)	88
Table 53: Escalation Rate admitted for FY 2023-24 and FY 2024-25 (%)	90
Table 54: Operation and Maintenance Expenses admitted for FY 2025-26 (Rs. Crore).....	92
Table 55: Depreciation claimed by the Petitioners for FY 2025-26 (Rs. Crore)	93
Table 56: Depreciation admitted for FY 2025-26 (Rs. Crore)	95
Table 57: Interest on Project Loan claimed for FY 2025-26 (Rs. Crore)	96
Table 58: Interest and finance charges admitted for FY 2025-26 (Rs. Crore).....	99
Table 59: Interest on Working Capital claimed for 2025-26 (Rs Crore)	100
Table 60: Interest on Working Capital admitted by the Commission (Rs. Crore)	102
Table 61: Interest on Consumer Security Deposit claimed by the Petitioners for FY 2025-26 (Rs. Crore).....	103
Table 62: Interest on Consumer Security Deposit (CSD) admitted.....	104
Table 63: Return on Equity Claimed by the Petitioners for FY 2025-26 (Rs. Crore)	105
Table 64: Return on Equity admitted for FY 2025-26 (Rs. Crore).....	107
Table 65: R&D Fund Claimed by Petitioners	108
Table 66 : DISCOM-wise R&D Fund Expenses considered	109
Table 67: Provision for Bad and Doubtful Debts Claimed for FY 2025-26 (Rs Crore)	110
Table 68: Other Income and Non-Tariff Income for FY 2025-26 (Rs Crore)	111
Table 69: Total actual Other Income as per True-up Orders (Rs Crore)	112
Table 70: Other Income admitted for FY 2025-26 (Rs. Crore)	112
Table 71: DBST submitted by the Petitioners for FY 2025-26 (Rs Crore).....	114
Table 72: Differential Bulk Supply Tariff Admitted by the Commission for FY 2025-26 (Rs Crore).....	115
Table 73: Aggregate Revenue Requirement (ARR) admitted for State for FY 2025-26 (Rs Crore).....	116
Table 74: Admitted ARR for Wheeling Business for FY 2025-26 (Rs. Crore).....	118
Table 75: Admitted ARR for Supply Business for FY 2025-26 (Rs. Crore).....	119
Table 76: Revenue at Existing and proposed Tariff submitted by Petitioner for FY 2025-26 (Rs. Crore).....	120
Table 77: Revenue including Rebate/ Incentives at Existing and Admitted Tariffs for FY 2025-26 (Rs. Crore).....	121
Table 78: Final ARR and Revenue from existing tariffs for FY 2025-26 (Rs Crore)	123
Table 79: Final ARR and Revenue from admitted tariffs for FY 2025-26 (Rs Crore).....	123
Table 80 : Wheeling Charges submitted by the Petitioners for FY 2025-26	124
Table 81 : Voltage level-wise Cost Break-up of Sub transmission & Distribution Lines.....	126
Table 82 Voltage level-wise cost of Transformer	126
Table 83 : Identification of value of network at different voltage levels (Rs. Crore)	126
Table 84 : Identification of network expenses (wheeling cost) at different voltage levels	127
Table 85 : Energy Wheeled at different voltage levels (MU)	127
Table 86 : Allocation of wheeling cost over Distribution System Users at 33 kV	127
Table 87 : Allocation of wheeling cost over Distribution System Users at 11 kV	128
Table 88 : Wheeling Charges at different Voltage levels	128