MEGHALAYA STATE ELECTRICITY REGULATORY COMMISSION SHILLONG

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Order on Case No. 9 of 2026

Petition of the Meghalaya Power Transmission Corporation Ltd for Approval of Business Plan for Transmission and SLDC Business for 5th Control Period from FY 2027-28 to FY 2031-32

Coram

Shri. Chandan Kumar Mondol, Chairman

Petitioner:

Meghalaya Power Transmission Corporation Ltd. (MePTCL)
Lum Jingshai, Short Round Road,
Shillong – 793 001

Order
(Dated: 6th November 2026)

The Government of Meghalaya has notified the Power Sector Reforms Transfer Scheme 2010, leading to restructuring, and unbundling of erstwhile Meghalaya State Electricity Board (MeSEB) into four entities. Accordingly, Meghalaya Power Transmission Corporation Limited (MePTCL) has started functioning as a segregated commercial operation utility independently for power transmission in the State of Meghalaya with effect from 1st April 2013.

The Meghalaya State Electricity Regulatory Commission (MSERC) notified the MSERC (Multi Year Tariff) (5 of 2026) Regulations 2026, hereby MSERC Tariff Regulation, 2026 on 31st July 2026, applicable to the Fifth Control Period from 1st April 2027 to 31st March 2032.

Regulation 2.1.2(a) of the MSERC Tariff Regulation, 2026 stipulates as follows:

"A detailed Business Plan based on the principles specified in these Regulations, for each year of the Control Period, shall be submitted by the applicant for the Commission's approval prior to the beginning of the Control Period:"

Further, Regulation 2.5.3, 2.5.5, 2.5.6 and 2.5.7 of the MSERC Tariff Regulation, 2026 specifies the scope of the Business Plan for a Transmission Company as follows:

"2.5.3. The Business Plan for the Transmission Licenses shall be for the entire Control Period and shall, interalia contain:

(a) Capital investment plan which should be commensurate with load growth and quality improvement proposed in the business plan along with its cost-benefit analysis. The investment plan should also include yearly phasing of capital expenditure· along with the source of funding, financing plan and corresponding capitalisation schedule. The system augmentation/ expansion plan to be submitted; as a part of Capital Investment Plan by the Transmission Licensee shall be consistent with the load growth forecast/ generation evacuation requirement during the Control Period. Further, the Capital Investment Plan shall be in conformity with the plans made by the CEA/ CTU /STU/ Distribution Licensee;

(b) The appropriate capital structure of each scheme proposed and cost of financing (interest on debt) and return on equity, terms of the existing loan agreements, etc;

(c) Transmission loss reduction trajectory for each year of the Control Period, including details of the measures proposed to be taken for achieving the target loss;

……

2.5.5. The Business Plan for the State Load Despatch Centre shall be for the entire Control Period and shall, interalia contain-

a. Capital Investment Plan including phasing of expenditure and funding pattern;

b. Estimated budget for the Control Period;

2.5.6. The Applicant shall also submit the details in respect of its manpower planning for the Control Period as part of Business Plan.

2.5.7. The Commission shall consider and approve the capital investment plan for which the Generating Company, Transmission Licensee, Distribution Licensee and State Load Despatch Centre, may be required to provide relevant technical and commercial details.

2.5.8. The Generating Company, Transmission Licensee, Distribution Licensee and State Load Despatch Centre shall get the Business Plan approved by the Commission."

The Petitioner herein being MePTCL, has filed a Petition seeking approval of its Business Plan for the Transmission and SLDC Business for the Fifth Control Period, FY 2027-28 to FY 2031-32, in accordance with the provisions of the MSERC Tariff Regulation, 2026.

The Petition was registered as under:

- MSERC Case No. 9 of 2026: Petition for Approval of Business Plan for Transmission and SLDC Business for the Fifth Control Period i.e. FY 2027-28 to FY 2031-32.

The Commission has examined the submissions made by MePTCL, along with the relevant information and supporting documents, in accordance with the applicable provisions of the Tariff Regulations, 2026. The Commission's analysis and decisions on the Business Plan, including the proposed capital investment plan, financing plan, capitalisation schedule and performance parameters, are set out in the subsequent sections of this Order.

This Order shall come into effect in accordance with the applicable provisions of the MSERC Tariff Regulation, 2026 and shall remain applicable for the Fifth Control Period, FY 2027-28 to FY 2031-32, subject to the provisions of the said Regulations and further orders of the Commission.

Sd/-

Chandan Kumar Mondol,
Chairman

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1. Background

1.1. Introduction

1.1.1. The power transmission in the State of Meghalaya is carried out by Meghalaya Power Transmission Corporation Limited (MePTCL), a wholly owned subsidiary of Meghalaya Energy Corporation Limited (MeECL).

1.1.2. The power supply industry in the State of Meghalaya has been under the governance of erstwhile Meghalaya State Electricity board (MeSEB) since 21st January 1975. However, the Government of Meghalaya has notified the Power Sector Reforms Transfer Scheme 2010, leading to restructuring, and unbundling of erstwhile Meghalaya State Electricity Board (MeSEB) into four entities. After notification of amendment to the Power Sector Reforms Transfer Scheme by the State Government on 1st April 2012, the un-bundling of MeECL into MePDCL, MePGCL and MePTCL came into effect.

1.1.3. Accordingly, Meghalaya Power Transmission Corporation Limited (MePTCL) (*herein referred to as "Petitioner"*) has started functioning as a segregated commercial operational utility independently for power transmission in the state of Meghalaya with effect from 1st April 2013.

1.1.4. The MSERC (*herein referred as "Commission"*) is an independent statutory body constituted under the provisions of the Electricity Regulatory Commissions (ERC) Act, 1998, which was superseded by Electricity Act (EA), 2003. The Commission is vested with the authority of regulating the power sector in the State inter alia including determination of tariff for electricity consumers.

1.2. Facts about this Case

1.2.1. The Petitioner vide letter dated 31st August 2026, had sought extension of time for submission of Business Plan for 15 (fifteen) days. Accordingly, the Commission vide letter dated 2nd September 2026, has considered the request for extension of time till 15th September 2026.

1.2.2. Subsequently, the Petitioner in compliance with Regulation 2.1 and Regulation 2.5 of the MSERC Tariff Regulation, has filed a Petition for Approval of Business Plan for the Fifth Control Period FY 2027-28 to FY 2031-32 dated 15th September 2026.

1.2.3. The Commission vide letter dated 17.09.2026 had admitted the petition, directing MePTCL to publish their Petition in their website and issue Public Notice inviting comments/suggestions/objections from stakeholders and the same to be submitted, within fifteen (15) days from the date of publication.

1.2.4. Accordingly, on 23.09.2026, the Petitioner had published the Petition in their website and issued Public Notice inviting comments/suggestions/ objections from stakeholders, the same of which were published in the local dailies.

1.2.5. This Commission had sought 1st Additional information from MePTCL on its Petition for Approval of Business Plan for the Fifth Control Period FY 2027-28 to FY 2031-32, vide letter dated 05.10.2026.

1.2.6. The Petitioner submitted its response to 1st additional information sought by this Commission on 26.10.2026.

1.2.7. This Commission issued a Notice for Public Hearing on the aforementioned Petition, to be held on 27.10.2026.

1.2.8. On 27.10.2026, in compliance with regulatory procedures, a public hearing on the Petition for Approval of Business Plan for the Fifth Control Period FY 2027-28 to FY 2031-32 was conducted.

1.2.9. This Commission further sought 2nd Additional information from MePTCL on the Petition for Approval of Business Plan for the Fifth Control Period FY 2027-28 to FY 2031-32 vide email dated 29.10.2026.

1.2.10. The Petitioner has submitted its response to the 2nd additional information sought by this Commission on 04.11.2026.

2. Key Performance Parameters for Transmission Business

2.1. Transmission System Availability (TSA)

Petitioner's Submission

2.1.0. The Petitioner has proposed the following TSA for the control period FY 2027-28 to FY 2031-32:

Table 1: Proposed Transmission System Availability (TSA) for the control period FY 2027-28 to FY 2031-32

Particulars	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Overall TSA (in %)	99.00	99.00	99.00	99.00	99.00

Commission's Analysis

2.1.1. The Commission has examined the submissions made by MePTCL regarding Transmission System Availability.

2.1.2. The Commission notes that availability is a key controllable performance parameter and that the Petitioner has historically achieved availability above the proposed level. Planned shutdowns for construction should be managed

through coordinated outage planning and should not dilute the operational benchmark.

2.1.3. The Commission has already notified the NATAF for transmission system for recovery of full transmission charges and for recovery of Annual Fixed Charges.

2.1.4. The Commission acknowledges MePTCL's submission on above Transmission System Availability.

2.2. Transmission Loss

Petitioner's Submission

2.2.1. The Petitioner has submitted that it has achieved a transmission loss of 2.52% and 2.56% in FY 2024-25 and FY 2025-26 respectively against the approved Transmission Losses of 3.18%. However, the Petitioner (MePTCL) further mentioned that the transmission losses apart from being heavily dependent on the network strength also depend on lots of other factor such as utilization factor of the transmission system etc.

2.2.2. Accordingly, the Petitioner proposed the following Transmission Losses for the control period FY 2027-28 to FY 2031-32

Table 2: Proposed Transmission Losses for the Control Period FY 2027-28 to FY 2031-32

Particulars	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Transmission Loss (%)	3.00	2.90	2.70	2.50	2.25

Commission's Analysis

2.2.3. The Commission has examined the submissions made by MePTCL regarding proposed Transmission Losses.

2.2.4. The Commission has observed that Actual Transmission Losses for earlier years as per True-Up Orders were as follows:

Table 3: Actual Transmission Losses as per True-Up Orders

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Transmission Loss (%)	3.01	3.16	2.82	2.52

2.2.5. The Commission also observed that actual transmission loss reported in the Petition for FY 2025-26 was 2.56%. The proposed increase to 3.00% in FY 2027-28 has not been supported by a complete load-flow study, metering boundary reconciliation or quantified loss impact of each proposed project.

2.2.6. Accordingly, the Commission has also observed that the basis of Projected Transmission Loss has not been mentioned in the Petition. In this context, the Commission vide First Additional Information Requirement, sought clarification for higher Transmission Loss of 3.00% proposed for in FY 2027-28 and detailed technical and operational measures proposed for achieving the target losses, including the methodology and assumptions adopted for determining the trajectory.

The Petitioner has replied that they are focussing on the infrastructure upgradation and strengthening of the transmission network and the Transmission losses depend on various other factors apart from network conditions one of which is increased power flow and peak demand. The Petitioner has further stated that the sales within the state was 1404 MU in 2024-25 and the transmission losses were 2.52% in the same time period, however as the sales increased to 1636 MU in FY 2025-26 in the State resulting in increased power requirement, the transmission losses increased to 2.56% and so a gradual reduction in transmission losses has been proposed from the approved figure of FY 2026-27 i.e., 3.18%. The Petitioner has also further submitted that it would make all efforts to continue to achieve a declining trajectory of the transmission losses. Based on the data of FY 2025-26 of last control period and the reply to the First Data Gap raised, the Commission may approve the proposed Transmission Losses for the Control Period FY 2027-28 to FY 2031-32.

2.2.7. The Commission observed that MePTCL has achieved 2.87% loss on an average over previous four financial years against the Target loss of 3.18%. The Commission observed that parameters achieved in one year is not always maintainable for other years. It is observed that CTU Losses have increased from 3.54% in FY 2023-24 to 3.66% in FY 2024-25.

2.2.8. In view of the above, the Commission notes that Transmission-loss approval cannot be based on actual achievement in a particular year, but it should be on an average basis for the control period. At the same time, there cannot be sudden deterioration of transmission losses what has already been achieved.

2.2.9. The Commission provisionally approves transmission loss for the Fifth Control Period as follows:

Table 4: Approved Transmission Losses for Fifth Control Period

Parameter	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Approved loss	2.87%	2.87%	2.70%	2.70%	2.60%

2.3. Transmission Line Length

Petitioner's Submission

2.3.1. The Petitioner submitted that, as on 31 March 2026, its transmission network comprised 86 transmission lines aggregating to 1,834.71 circuit

kilometres. However, the Petitioner has not submitted any proposed data for Transmission Line Length for Fifth Control Period in the Petition.

2.3.2. The voltage-wise network position submitted by the Petitioner is summarised below:

Table 5: Actual Transmission Network (Lines) As On 31.03.2026 as submitted by the Petitioner

Voltage Level	Total Number of Lines	Line Length in Ckt. Km
132 KV	78	1344.61
220 KV	6	485.88
400 KV	2	4.21
Total	86	1834.71

Commission's Analysis

2.3.3. The Commission has observed the fact about non-submission of proposed data for Transmission Line Length (in Ckt Km) for fifth control period in the Petition. The Commission has raised this issue vide Second Additional Information Requirement. In reply, the Petitioner submitted the following details:

Table 6: Proposed Transmission Network (Lines) for Fifth Control Period as submitted by the Petitioner

Particular	UOM	2027-28	2028-29	2029-30	2030-31	2031-32
Lines						
400 kV	Ckt. Km	4.216	4.216	4.216	4.216	4.216
220 KV	Ckt. Km	632.287	632.287	632.287	632.287	982.287
132 KV Single Circuit Single Conductor	Ckt. Km	707.256	779.256	893.256	953.256	953.256
132 kV Double Circuit Single Conductor	Ckt. Km	498.62	498.62	523.62	523.62	683.62
132 kV Multi Circuit Single Conductor	Ckt. Km	-	-	-	-	-

Particular	UOM	2027-28	2028-29	2029-30	2030-31	2031-32
		1842.379	1914.379	2053.379	2113.379	2623.379

2.3.4. The Commission has also observed that Actual Transmission Line Length (in Ckt Km) as per last True-Up Orders are as follows:

Table 7: Actual Transmission Line Length (in Ckt Km) as per True Up Orders

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Transmission Line Length (in Ckt Kms)	1,478.684	1,495.012	1,633.332	1,873.828

2.3.5. The Commission also takes note of the fact that Actual Transmission Line Length (in Ckt Km) for FY 2025-26 was 1,834.710 whereas the Actual Transmission Line Length (in Ckt Km) for FY 2024-25 was 1,873.828 as mentioned in the Petition. In this regard, the Commission directed MePTCL to reconcile the discrepancy vide Second Additional Information Requirement.

In response, MePTCL submitted that the transmission line length and transformation capacity reported during the True-Up of FY 2024-25 contained minor errors. In view of the linkage of O&M expenses with circuit kilometres and transformation capacity under the MYT Regulations, 2026, MePTCL undertook a detailed reconciliation of the transmission assets to avoid any excess recovery of O&M expenses through tariff. Accordingly, MePTCL requested the Commission to consider the reconciled transmission line length and transformation capacity furnished in the present Petition.

2.3.6. The Commission takes the network position on record for planning purposes only. The Petitioner shall submit voltage-wise and asset-wise reconciliation, supported by the fixed asset register, commissioning and retirement records, and geographical information system mapping along with the ensuing MYT/ARR Petition.

2.4. Number of Substations

Petitioner's Submission

2.4.1. The Petitioner submitted that, as on 31 March 2026, its transmission network comprised 24 number of substations. However, the Petitioner has not submitted any proposed data for number of Substations for fifth control period in the Petition.

2.4.2. The voltage-wise network position submitted by the Petitioner is summarised below:

Table 8: Actual Transmission Network (no. of substations) as on 31.03.2026 as submitted by the Petitioner

Voltage Level	Total Number of Sub-Stations
132 KV	20
220 KV	3
400 KV	1
Total	**24**

Commission's Analysis

2.4.3. The Commission has observed the fact about non-submission of proposed data for number of Substations in the Petition. Accordingly, the Commission directed the Petitioner to furnish the year-wise proposed number of substations for FY 2027-28 to FY 2031-32 vide Second Additional Information Requirement. In reply, the Petitioner submitted the following details:

Table 9: Proposed Transmission Network (no. of substations) for Fifth Control Period as submitted by the Petitioner

Particular	UOM	2027-28	2028-29	2029-30	2030-31	2031-32
Bays						
400 kV	Nos.	4	4	4	4	4
220 kV	Nos.	16	16	16	16	28
132 kV	Nos.	179	188	208	214	232
		199	**208**	**228**	**234**	**264**

2.4.4. The Commission has considered all the above facts. Further, the Commission takes the substation position on record for planning purposes only. The Petitioner shall submit voltage-wise and asset-wise reconciliation, supported by the fixed asset register, commissioning and retirement records, and geographical information system mapping along with the ensuing MYT/ARR Petition.

2.5. Transformation Capacity (MVA)

Petitioner's Submission

2.5.1. The Petitioner submitted that, as on 31 March 2026, its transmission network comprised an aggregate transformation capacity of 2,583 MVA.

However, the Petitioner has not submitted any proposed data for Transformation Capacity (in MVA) in the Petition.

2.5.2. The voltage-wise network position submitted by the Petitioner is summarised below:

Table 10: Actual Transmission Network (Transformation Capacity) as on 31.03.2026 as submitted by the Petitioner

Voltage Level	Total Number of Sub-Stations	Transformation Capacity (MVA)
132 KV	20	893
220 KV	3	960
400 KV	1	630
Total	**24**	**2583**

Commission's Analysis

2.5.3. The Commission has observed the fact about non-submission of proposed data for Transformation Capacity (in MVA) for fifth control period in the Petition. In this context the Petitioner has been asked vide Second Additional Information Requirement to provide proposed Transformation Capacity for FY 2027-28 to FY 2031-32 and in response, submitted the following details:

Table 11: Proposed Transmission Network (Transformation Capacity) for Fifth Control Period as submitted by the Petitioner

Particular	UOM	2027-28	2028-29	2029-30	2030-31	2031-32
Transformation Capacity						
400 KV	MVA	630	630	630	630	630
220 kV	MVA	960	960	960	960	1280
132 kV	MVA	1100.5	1200.5	1530.5	1580.5	1680.5
		2690.5	**2790.5**	**3120.5**	**3170.5**	**3590.5**

2.5.4. The Commission has also observed that the actual Transformation Capacity (in MVA) from FY 2021-22 to FY 2024-25 as per True-Up Orders is enumerated in the Table below:

Table 12: Transformation Capacity (in MVA) as per True Up Orders

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Transformation Capacity (in MVA)	1,790	1,790	2,630	2,633

2.5.5. The Commission observed that the actual transformation capacity reported as 2,583 MVA as on 31 March 2026 was lower than the 2,633 MVA reported for FY 2024-25 and directed the Petitioner to reconcile and clarify the discrepancy vide Second Additional Information Requirement.

In reply of the above query, the Petitioner submitted that the transmission line length and transformation capacity furnished during the True-Up of FY 2024-25 contained minor errors. Since O&M expenses under the MYT Regulations, 2026 are linked to circuit kilometres and transformation capacity, the Petitioner undertook a detailed reconciliation of its transmission assets to prevent excess recovery through tariff. Accordingly, the Petitioner requested the Commission to consider the reconciled transmission line length and transformation capacity furnished in the present Petition.

2.5.6. The Commission takes the network position on record for planning purposes only. The Petitioner shall submit voltage-wise and asset-wise reconciliation, supported by the fixed asset register, commissioning and retirement records, and geographical information system mapping along with the ensuing MYT/ARR Petition.

3. Demand Assumptions for intra-state Transmission planning

3.1. Intra-State Transmission Plan from FY 2027-28 to FY 2031-32

Petitioner's Submission

3.1.1. The Petitioner has submitted that the Capital Investment Plan for the Transmission Business for the Fifth Control Period from FY 2027-28 to FY 2031-32 has been prepared based on the Intra-State Transmission Plan for Meghalaya, as approved by the Central Electricity Authority (CEA).

3.1.2. The Petitioner submitted that the Ministry of Power (MoP), vide letter dated 16.02.2022, had advised CEA to assess the requirements of the North-Eastern States for strengthening and augmenting their intra-State transmission systems. Accordingly, CEA, after consultation with the North-Eastern States and Sikkim, submitted a report titled "Intra-State Transmission System Strengthening Requirement of North-Eastern States and Sikkim by the Year 2030" to MoP on 25.02.2023.

3.1.3. Subsequently, pursuant to the directions issued in the meeting held on 17.01.2024 under the chairmanship of the Secretary (Power), it was decided to revise the said report by considering the Resource Adequacy Plan, evacuation requirements of small hydro projects, mapping of existing and planned transmission networks on the PM Gati Shakti National Master Plan, and other relevant requirements. Accordingly, CEA, in consultation with MePTCL and CTUIL, undertook the exercise for updating the transmission system requirements of Meghalaya up to FY 2031-32.

Table 13: Demand Assumptions Considered by CEA During Approval of State Transmission Plan

Demand	Actual Peak Electricity Demand in 2022-23 (MW)	Projected Peak Electricity Demand in 2031-32 as per 20th EPS Report (MW)	Projected Peak Electricity Demand in 2031-32 considering 200 MW industrial load RTC (MW)
Peak Demand	404	576	660
CAGR		4.0%	5.6%

3.1.4. The Petitioner further submitted that CEA, while finalising the Intra-State Transmission Plan, considered an anticipated industrial demand of 200 MW by FY 2031-32 across various locations in Meghalaya. For the purpose of transmission planning and system studies, the said industrial demand was considered on a Round-the-Clock (RTC) basis. The details of the anticipated industrial demand are Export Promotion Industrial Park (EPIP)-I (45 MW),

EPIP-II (30 MW), Mynkre (80 MW) and Lumshong (45 MW) area of Meghalaya.

3.1.5. The Petitioner submitted that the transmission planning exercise also considered the upcoming generating stations, namely, MLHEP Phase-II (210 MW), Ganol Phase-II (14 MW), and other small hydro projects aggregating to 26.5 MW, which are proposed to be connected at the 33 kV level.

3.1.6. With regard to Resource Adequacy, the Petitioner submitted that CEA considered the Renewable Purchase Obligation (RPO) trajectory notified by the Government of India vide Gazette Notification dated 20.10.2023 and the anticipated renewable energy capacity requirements beyond FY 2029-30, in line with the National Electricity Plan 2023-32. As per the resource adequacy assessment undertaken by CEA, the total energy requirement for meeting the RPO obligation of Meghalaya was assessed at 1,297 MU by FY 2029-30, against which the State was projected to have an RPO generation surplus of 611 MU, comprising 26 MU from hydro sources and 585 MU from other RPO-compliant sources. Accordingly, the Petitioner submitted that the projected surplus would be adequate to meet the State's RPO obligations up to FY 2031-32, without requiring additional renewable energy capacity to be added or contracted during the period.

3.1.7. The Petitioner further submitted that the transmission system planned for FY 2031-32 was studied considering the N-1 contingency criteria and that no transmission constraints were observed under the assessed demand and generation scenarios. Accordingly, CEA concluded that the planned transmission system, including the new schemes identified under the Plan, would ensure transmission resource adequacy for the State.

3.1.8. The Petitioner submitted that, based on the aforesaid demand projections and planning assumptions, CEA approved the following additions to the intra-State transmission network of Meghalaya up to FY 2031-32:

Table 14: New Asset Addition Approved in Intra-State Transmission Plan

New Asset Addition				
Voltage Level	**New Sub-Stations (No.)**	**Transformation Capacity (MVA)**	**Transmission Lines (Nos.)**	**Line Length (Ckt. Km)**
220 KV	0	0.00	02	510
132 KV	05	300	12	474.47

Table 15: Augmentation of Existing Assets Approved in Intra-State Transmission Plan

Augmentation/ Upgradation				
Voltage Level	**Augmentation of Sub-Stations (No.)**	**Transformation Capacity (MVA)**	**Re-Conductoring of Transmission Lines (Nos.)**	**Line Length (Ckt. Km)**
220 KV	00	00	00	00
132 KV	08	397.50	07	147.22

Commission's Analysis

3.1.9. The Commission has examined the submissions of the Petitioner regarding the Intra-State Transmission Plan for Meghalaya up to FY 2031-32, including the demand projections, generation assumptions, resource adequacy assessment and proposed additions and augmentation of the transmission network.

3.1.10. With regard to the demand projections, the Commission has examined the report titled "Transmission System Requirement of North-Eastern States and Sikkim by the Year 2031-32" (October 2024) furnished by the Petitioner as Annexure 1. The Commission observes that the report indicates a peak demand of 575 MW for Meghalaya as per the 20th EPS for FY 2031-32, whereas the State-estimated peak demand has been considered as 660 MW, including an anticipated industrial demand of 200 MW. The report further identifies the proposed industrial demand at EPIP-I (45 MW), EPIP-II (30 MW), Mynkre (80 MW) and Lumshong (45 MW), and considers the said demand as non-scalable industrial demand for the purpose of transmission planning studies. Accordingly, the Commission notes that the projected demand of 660 MW has been considered in the CEA transmission planning exercise based on the State's estimated demand, including the anticipated industrial load.

3.1.11. The Commission further observes that the transmission planning study has considered an intra-State generation installed capacity of 600 MW, comprising MLHEP-II (210 MW) and Ganol-II (14 MW), along with the exclusion of approximately 26.5 MW of small hydro projects proposed to be connected at 33 kV and below. The Commission has also taken note of the resource adequacy assessment and the N-1 contingency studies undertaken by CEA, which indicate that no transmission constraints were observed under the assessed scenarios.

3.1.12. The Commission observes that the CEA Plan envisages the addition of 5 new 132 kV substations with 300 MVA transformation capacity and 14 transmission lines aggregating to 984.47 ckt. km. It also envisages augmentation of 8 existing 132 kV substations involving 397.50 MVA transformation capacity and re-conductoring of 7 transmission lines aggregating to 147.22 ckt. km. The Commission is of the view that these proposed additions and augmentation need to be examined in conjunction with the existing network, anticipated demand growth and generation evacuation requirements.

3.1.13. The Commission observes that the CEA transmission plan provides a technical and planning reference for assessing the transmission requirements of the State. Accordingly, the Commission has taken note of the proposed transmission schemes and the associated investment requirements indicated by the Petitioner for the Fifth Control Period, subject to scheme-wise technical validation, requisite statutory approvals, cost benchmarking and firming up of funding arrangements. The actual admissibility of capital expenditure, funding arrangements and capitalization shall be considered in accordance with the provisions of the MSERC (Multi Year Tariff) (5 of 2026) Regulations, 2026.

4. Capital Investment Plan for Transmission Business

4.1. Capital Expenditure for Transmission Business

Petitioner's Submission

4.1.1. MePTCL has submitted that its proposed capital investment plan for the Fifth Control Period has been prepared based on the Intra-State Transmission Plan approved by the Central Electricity Authority (CEA). The Petitioner has furnished the scheme-wise details of the proposed capital investment, including the project outlay, tentative funding pattern and expected completion timelines, as presented in Table below:

Table 16: Projects and Tentative Cost and Funding Pattern Proposed During the Fifth Control Period

Name of Scheme/ Project	Project Outlay (Rs. Cr.)	Funding Through Grant (Rs. Cr.)	Funding Through Loan (Rs. Cr.)	Funding Through Equity (Rs. Cr.)	Tentative Completion Date
Ongoing Projects					
Loop In and Loop Out of 132 KV Mendipathar-Nangalbibra S/C line at 220/132 KV Nangalbibra (ISTS) substation (temporary arrangement before balance funds are received for construction of 132 KV D/C line from 220/132 KV Nangalbibra (ISTS) substation to 132 KV Nangalbibra (MePTCL) substation z	45.67	45.67	0.00	0.00	2027-28
Upcoming Projects					
Construction of 2x50MVA, 132/33kV Substation at Mawkhanu, East Khasi Hills District, Meghalaya along with the construction of 132kV D/C Saisiej-Mawkhanu Line and GIS Bay at Saisiej, Meghalaya	111.49	111.49	0.00	0.00	2029-30
Augmentation of 132/33kV Mawlai Sub-station from 3x20 MVA to 3x50 MVA along with re-engineering of 132kV Bus bar	79.23	79.23	0.00	0.00	2028-29
Construction of 132 KV MLHEP-Mustem S/C line for redundant evacuation of power from MLHEP-1 power station	64.00	64.00	0.00	0.00	2027-28
Construction of 220 KV Nangalbibra (ISTS) - Sohra D/C line	459.00	459.00	0.00	0.00	2029-30
Construction of 220/132 KV, 2 x 100 MVA Sohra substation	60.00	60.00	0.00	0.00	2029-30

Name of Scheme/ Project	Project Outlay (Rs. Cr.)	Funding Through Grant (Rs. Cr.)	Funding Through Loan (Rs. Cr.)	Funding Through Equity (Rs. Cr.)	Tentative Completion Date
Construction of 220 KV Sohra - New Shillong D/C line	236.00	236.00	0.00	0.00	2029-30
Construction of 132 kV double circuit LILO of Rongkhon - Ampati line at Praharinagar along with 132/33 KV, 1 x 25 MVA (with an additional transformer bay) sub-station at Prahinagar	33.30	27.60	3.99	1.71	2027-28
Establishment of 132/33 kV, 2x25 MVA S/s Killing (New) near the existing Killing 400/220/132kVS/s	40.00	0.00	28.00	12.00	2029-30
Killing (existing) – Killing (New)132kV D/c line (5 ckm) along with 2 Nos. 132kV line bays at Killing 400/220/132kVS/s	9.50	0.00	6.65	2.85	2029-30
Establishment of 132/33kV, 2x25 MVA S/s at Kynshi	44.00	0.00	30.80	13.20	2028-29
LILO of 132 KV Mawphlang-Nongstoin S/C line at Kynshi	3.60	0.00	2.52	1.08	2028-29
Establishment of 132/33 kV,2x25 MVA S/s at Baghmara	40.00	0.00	28.00	12.00	2031-32
Nangalbibra (ISTS) – Baghmara 132 kV D/c line– (150 ckm) along with 2 Nos. 132 kV line bays at Nangalbibra (ISTS) S/s	313.74	0.00	219.62	94.12	2031-32
Establishment of 132/33kV, 2x25 MVAS/s at Happy Valley, Shillong	48.00	0.00	33.60	14.40	2031-32
LILO of 132KV Mawlyndep-NEHU S/c line at Happy Valley, Shillong	39.65	0.00	27.76	11.90	2031-32
Establishment of 132/33 kV,2x25 MVA S/s at Pongtung	40.00	0.00	28.00	12.00	2030-31
Sohra – Pongtung 132 kV D/c line (60 ckm) along with 2 Nos. 132kV line bays at Sohra 132/33kVS/s	72.00	0.00	50.40	21.60	2030-31
New Shillong – IIM 132 kV S/c line (8 ckm) along with associated bays at both end	31.88	0.00	22.32	9.56	2028-29
Mawkhanu -Mawlyndep 132kVS/cline (30ckm) along with associated bays at both end	119.58	0.00	83.71	35.87	2029-30
Establishment of 132/33kV, 2x20 MVA S/s at Sutnga	38.00	0.00	26.60	11.40	2029-30
Khliehriat (PG) – Sutnga 132 KV S/c line (on D/C tower) along with 1 no. 132 KV bay each at Khliehriat (PG) and Sutnga	45.00	0.00	31.50	13.50	2029-30

Name of Scheme/ Project	Project Outlay (Rs. Cr.)	Funding Through Grant (Rs. Cr.)	Funding Through Loan (Rs. Cr.)	Funding Through Equity (Rs. Cr.)	Tentative Completion Date
S/s					
Sutnga-Mawkhanu 132 KV D/c line along with 1 no. 132 KV bay each at Mawkhanu and Sutnga S/s	86.00	0.00	60.20	25.80	2029-30
Restringing of NEHU – Mawlyndep-Mustem-Khliehriat 132 kV S/c line (56 ckm) with panther conductor	9.31	9.31	0.00	0.00	2028-29
Restringing of Mawlai – Sohra 132kV S/c line (42ckm) (being LILOed at Mawphlang) with panther conductor	6.93	6.93	0.00	0.00	2028-29
Restringing of Mawphlang-Mawlai 132KVS/c line (20.26 ckm) along with panther conductor	6.21	0.00	4.35	1.86	2029-30
Augmentation of S/s by Replacement of 132/33 kV, 1x5 (out of 2x20 + 1x5) MVA ICTs with 1x20 MVA ICTs at Rongkhon S/s	3.00	0.00	2.10	0.90	2028-29
Augmentation of 132/33 kV, 1x50 MVA ICT with additional 1x50 MVA ICTs at EPIP-II S/s	12.02	0.00	8.41	3.61	2028-29
Total	2097.11	1099.23	698.52	299.36	

4.1.2. The petitioner has further submitted that, in respect of projects for which the funding pattern has not yet been finalised, it has provisionally considered 70% of the project outlay to be funded through debt and the remaining 30% through equity. The Petitioner has stated that it has been raising the issue of funding support for such projects at various forums, including the North Eastern Regional Power Committee (NERPC). According to the petitioner, the funding requirement has been acknowledged by NERPC, CEA and the Ministry of Power (MoP), and the introduction of a scheme on the lines of the North Eastern Region Power System Improvement Project (NERPSIP) has been suggested for funding these projects.

4.1.3. In view of the above, the petitioner has requested the Commission to allow it to revise the funding pattern of the projects for which a debt-equity mix has been provisionally considered in the present Business Plan, upon approval of grants by the Ministry of Power or any other competent authority.

Commission's Analysis

4.1.4. The Commission has observed that it has been mentioned below Table 9 of Para 3 of the Petition that 'Capital investment plan has been prepared on the

basis of Intra-State Transmission Plan approved by Central Electricity Authority'. However, the Commission observes that in some of the projects as listed in the Table below the project costs and completion year in Petition are not matching with that in the CEA Plan Report. Accordingly, the Commission sought project-wise clarification and supporting justification from the Petitioner vide Second Additional Information.

Table 17: Project Costs and Completion Year (Both as per Petitioner Submission and as per CEA Plan)

	Petitioner Submission		**As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya**		**Commission Analysis**
Name of Work	**Project Cost (in Rs. Crores)**	**Completion Year**	**Project Cost (in Rs. Crores)**	**Completion Year**	
Loop In and Loop Out of 132 KV Mendipathar-Nangalbibra S/C line at 220/132 KV Nangalbibra (ISTS) substation (temporary arrangement before balance funds are received for construction of 132 KV D/C line from 220/132 KV Nangalbibra (ISTS) substation to 132 KV Nangalbibra (MePTCL) substation	45.67	2027-28	45.67	2027-28	Project Cost: Matching Project Completion Year: Matching However, this is subject to receiving the documents
Construction of 2x50MVA, 132/33kV Substation at Mawkhanu, East Khasi Hills District, Meghalaya along with the construction of 132kV D/C Saisiej-Mawkhanu Line and GIS Bay at Saisiej, Meghalaya	111.49	2029-30	92.48	2027-28	Project Cost: Mismatch Project Completion Year: Mismatch
Augmentation of 132/33kV Mawlai Sub-station from 3x20 MVA to 3x50 MVA along with re-engineering of 132kV Bus bar	79.23	2028-29	79.23	2027-28	Project Cost: Matching Project Completion Year: Mismatch
Construction of 132 KV MLHEP-Mustem S/C line	64	2027-28	60	2027-28	Project Cost: Mismatch

	Petitioner Submission		**As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya**		**Commission Analysis**
Name of Work	**Project Cost (in Rs. Crores)**	**Completion Year**	**Project Cost (in Rs. Crores)**	**Completion Year**	
for redundant evacuatipn of power from MLHEP-1 power station					Project Completion Year: Matching
Construction of 220 KV Nangalbibra (ISTS) - Sohra D/C line	459	2029-30	393.6	2032-33	Project Cost: Mismatch Project Completion Year: Mismatch
Construction of 220/132 KV, 2 x 100 MVA Sohra substation	60	2029-30			Could not be traced from CEA Plan
Construction of 220 KV Sohra - New Shillong D/C line	236	2029-30	180.4	2032-33	Project Cost: Mismatch Project Completion Year: Mismatch
Construction of 132 kV double circuit LILO of Rongkhon - Ampati line at Praharinagar along with 132/33 KV, 1 x 25 MVA (with an additional transformer bay) sub-station at Praharinagar	33.3	2027-28			Could not be traced from CEA Plan
Establishment of 132/33 kV, 2x25 MVA S/s Killing (New) near the existing Killing 400/220/132kVS/s	40	2029-30	53.1	2029-30	Project Cost: Mismatch Project Completion Year: Matching
Killing (existing) - Killing (New)132kV D/c line (5 ckm) along with 2 Nos. 132kV line bays at Killing 400/220/132kVS/s	9.5	2029-30	9.5	2029-30	Project Cost: Matching Project Completion Year: Matching
Establishment of	44	2028-29			Could not be

	Petitioner Submission		As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya		Commission Analysis
Name of Work	**Project Cost (in Rs. Crores)**	**Completion Year**	**Project Cost (in Rs. Crores)**	**Completion Year**	
132/33kV, 2x25 MVA S/s at Kynshi					traced from CEA Plan
LILO of 132 KV Mawphlang-Nongstoin S/C line at Kynshi	3.6	2028-29			Could not be traced from CEA Plan
Establishment of 132/33 kV,2x25 MVA S/s at Baghmara	40	2031-32	30.45	2031-32	Project Cost: Mismatch Project Completion Year: Matching
Nangalbibra (ISTS) - Baghmara 132 kV D/c line- (150 ckm) along with 2 Nos. 132 kV line bays at Nangalbibra (ISTS) S/s	313.74	2031-32	313.74	2031-32	Project Cost: Matching Project Completion Year: Matching
Establishment of 132/33kV, 2x25 MVAS/s at Happy Valley, Shillong	48	2031-32	38.36	2032-33	Project Cost: Mismatch Project Completion Year: Mismatch
LILO of 132KV Mawlyndep-NEHU S/c line at Happy Valley, Shillong	39.65	2031-32	42.65	2032-33	Project Cost: Mismatch Project Completion Year: Mismatch
Establishment of 132/33 kV,2x25 MVA S/s at Pongtung	40	2030-31	40	2030-31	Project Cost: Matching Project Completion Year: Matching
Sohra - Pongtung 132 kV D/c line (60 ckm) along with 2 Nos. 132kV line bays at Sohra 132/33kVS/s	72	2030-31	116.4	2030-31	Project Cost: Mismatch Project Completion Year:

	Petitioner Submission		**As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya**		**Commission Analysis**
Name of Work	**Project Cost (in Rs. Crores)**	**Completion Year**	**Project Cost (in Rs. Crores)**	**Completion Year**	
					Matching
New Shillong - IIM 132 kV S/c line (8 ckm) along with associated bays at both end	31.88	2028-29	31.88	2026-27	Project Cost: Matching Project Completion Year: Mismatch
Mawkhanu -Mawlyndep 132kVS/cline (30ckm) along with associated bays at both end	119.58	2029-30	119.58	2028-29	Project Cost: Matching Project Completion Year: Mismatch
Establishment of 132/33kV, 2x20 MVA S/s at Sutnga	38	2029-30			Could not be traced from CEA Plan
Khliehriat (PG) - Sutnga 132 KV S/c line (on D/C tower) along with 1 no. 132 KV bay each at Khliehriat (PG) and Sutnga S/s	45	2029-30			Could not be traced from CEA Plan
Sutnga-Mawkhanu 132 KV D/c line along with 1 no. 132 KV bay each at Mawkhanu and Sutnga S/s	86	2029-30			Could not be traced from CEA Plan
Restringing of NEHU - Mawlyndep- Mustem-Khliehriat 132 kV S/c line (56 ckm) with panther conductor	9.31	2028-29	12.26	2026-27	Project Cost: Mismatch Project Completion Year: Mismatch
Restringing of Mawlai - Sohra 132kV S/c line (42ckm) (being LILOed at Mawphlang) with panther conductor	6.93	2028-29	9.54	2028-29	Project Cost: Mismatch Project Completion Year: Matching

	Petitioner Submission		**As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya**		**Commission Analysis**
Name of Work	**Project Cost (in Rs. Crores)**	**Completion Year**	**Project Cost (in Rs. Crores)**	**Completion Year**	
Restringing of Mawphlang-Mawlai 132KVS/c line (20.26 ckm.) along with panther conductor	6.21	2029-30	6.21	2028-29	Project Cost: Matching Project Completion Year: Mismatch
Augmentation of S/s by Replacement of 132/33 kV, 1x5 (out of 2x20 + 1x5) MVA ICTs with 1x20 MVA ICTs at Rongkhon S/s	3	2028-29	0.8	2027-28	Project Cost: Mismatch Project Completion Year: Mismatch
Augmentation of 132/33 kV, 1x50 MVA ICT with additional 1x50 MVA ICTs at EPIP-II S/s	12.02	2028-29	12.02	2027-28	Project Cost: Matching Project Completion Year: Mismatch
	2,097.11		**1,687.87**		

4.1.5. In reply of the above inconsistency, the Petitioner submitted the following:

Table 18: Response on difference between CEA Approved plan and Petitioner's submission

Name of Work	Petitioner Submission		As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya		Commission Analysis	MePTCL's Reply
	Project Cost (in Rs. Crores)	Completion Year	Project Cost (in Rs. Crores)	Completion Year		
Loop In and Loop Out of 132 KV Mendipathar-Nangalbibra S/C line at 220/132 KV Nangalbibra (ISTS) substation (temporary arrangement before balance funds are received for construction of 132 KV D/C line from 220/132 KV Nangalbibra (ISTS) substation to 132 KV Nangalbibra (MePTCL) substation	45.67	2027-28	45.67	2027-28	Project Cost: Matching Project Completion Year: Matching However, this is subject to receiving the documents	The project cost of Rs 45.67 crore is for a direct 132 KV D/C connectivity between 220/132 KV Nangalbibra (ISTS) substation and 132 KV Nangalbibra (MePTCL) substation along with installation of a second 132/33 KV 25 MVA transformer and reengineering of the 132 KV bus. Out of the above amount, only Rs 11.5 crore has been released by the State Govt. Considering the shortage

Name of Work	Petitioner Submission		As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya		Commission Analysis	MePTCL's Reply
	Project Cost (in Rs. Crores)	Completion Year	Project Cost (in Rs. Crores)	Completion Year		
						of funds and to avoid payment of Transformer Component for the 220/132 KC, 2x160 MVA transformers installed at the ISTS side, the temporary LILO arrangement is being executed now after clearance is obtained following resolution of RoW issues and submission of required technical data. The LILO portion will be completed before the end of 2026-27 while the direct connectivity will be taken up on receipt of the

Name of Work	Petitioner Submission		As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya		Commission Analysis	MePTCL's Reply
	Project Cost (in Rs. Crores)	Completion Year	Project Cost (in Rs. Crores)	Completion Year		
						balance funds expected to be released by the end of FY 2026-27.
Construction of 2x50MVA, 132/33kV Substation at Mawkhanu, East Khasi Hills District, Meghalaya along with the construction of 132kV D/C Saisiej-Mawkhanu Line and GIS Bay at Saisiej, Meghalaya	111.49	2029-30	92.48	2027-28	Project Cost: Mismatch Project Completion Year: Mismatch	The project cost mismatch is due to escalation of the cost arising from a higher bid by the L1 bidder. The extended timeframe is warranted due to extension / delay in the tendering process and sanction of funds from the State share. Moreover, the land allotted for the substation is required to be resolved by the State Govt as a portion of the

Name of Work	Petitioner Submission		As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya		Commission Analysis	MePTCL's Reply
	Project Cost (in Rs. Crores)	Completion Year	Project Cost (in Rs. Crores)	Completion Year		
						High Speed Corridor to Silchar to be executed by NHIDCL passes through it. Hence the extension of the completion timeframe
Augmentation of 132/33kV Mawlai Sub-station from 3x20 MVA to 3x50 MVA along with re-engineering of 132kV Bus bar	79.23	2028-29	79.23	2027-28	Project Cost: Matching Project Completion Year: Mismatch	
Construction of 132 KV MLHEP-Mustem S/C line for redundant evacuation of power from MLHEP-1 power station	64	2027-28	60	2027-28	Project Cost: Mismatch Project Completion Year: Matching	The cost estimates submitted to CEA were based on POWERGRID rates at 2023 prices. The above cost has been estimated based on the LiDAR survey carried out by MePTCL during July

Name of Work	**Petitioner Submission**		**As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya**		**Commission Analysis**	**MePTCL's Reply**
	Project Cost (in Rs. Crores)	**Completion Year**	**Project Cost (in Rs. Crores)**	**Completion Year**		
						2026.
Construction of 220 KV Nangalbibra (ISTS) - Sohra D/C line	459	2029-30	393.6	2032-33	Project Cost: Mismatch Project Completion Year: Mismatch	The cost estimates submitted to CEA were based on POWERGRID rates at 2023 prices. Given that funding is expected to be obtained before the end of 2026-27 only and taking onto account possible RoW issues that may crop up, the timeline has been extended. However, efforts will be made to complete it by the end of 2031-32
Construction of 220/132 KV, 2 x 100 MVA Sohra substation	60	2029-30			Could not be traced from CEA Plan	
Construction of 220 KV Sohra - New Shillong D/C line	236	2029-30	180.4	2032-33	Project Cost: Mismatch Project Completion Year: Mismatch	

Name of Work	Petitioner Submission		As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya		Commission Analysis	MePTCL's Reply
	Project Cost (in Rs. Crores)	Completion Year	Project Cost (in Rs. Crores)	Completion Year		
Construction of 132 kV double circuit LILO of Rongkhong - Ampati line at Praharinagar along with 132/33 KV, 1 x 25 MVA (with an additional transformer bay) sub-station at Praharinagar	33.3	2027-28			Could not be traced from CEA Plan	This has been a project funded by the State Govt under Special Plan Assistance and has not been included in the CEA Transmission Adequacy Plan up to 2034-35
Establishment of 132/33 kV, 2x25 MVA S/s Killing (New) near the existing Killing 400/220/132kVS/s	40	2029-30	53.1	2029-30	Project Cost: Mismatch Project Completion Year: Matching	The proposed 132/33 KV substation will be located within Killing S/S premises thus reducing the originally proposed transmission route length
Killing (existing) - Killing (New)132kV D/c line (5 Ckm) along with 2 Nos. 132kV line bays at Killing 400/220/132kVS/s	9.5	2029-30	9.5	2029-30	Project Cost: Matching Project Completion Year: Matching	
Establishment of 132/33kV, 2x25 MVA S/s at Kynshi	44	2028-29	-	-	Could not be traced from CEA Plan	Submitted to CEA for approval and for

Name of Work	Petitioner Submission		As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya		Commission Analysis	MePTCL's Reply
	Project Cost (in Rs. Crores)	Completion Year	Project Cost (in Rs. Crores)	Completion Year		
LILO of 132 KV Mawphlang-Nongstoin S/C line at Kynshi	3.6	2028-29	-	-	Could not be traced from CEA Plan	inclusion in the Transmission Adequacy Plan up to 2036-37. Yet to be approved by CEA.
Establishment of 132/33 kV,2x25 MVA S/s at Baghmara	40	2031-32	30.45	2031-32	Project Cost: Mismatch Project Completion Year: Matching	The earlier estimated cost was based on POWERGRID rates at 2023 prices.
Nangalbibra (ISTS) - Baghmara 132 kV D/c line- (150 ckm) along with 2 Nos. 132 kV line bays at Nangalbibra (ISTS) S/s	313.74	2031-32	313.74	2031-32	Project Cost: Matching Project Completion Year: Matching	
Establishment of 132/33kV, 2x25 MVAS/s at Happy Valley, Shillong	48	2031-32	38.36	2032-33	Project Cost: Mismatch Project Completion Year: Mismatch	The earlier estimated cost was based on POWERGRID rates at 2023 prices.
LILO of 132KV Mawlyndep-NEHU	39.65	2031-32	42.65	2032-33	Project Cost: Mismatch	It is anticipated that the

Name of Work	Petitioner Submission		As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya		Commission Analysis	MePTCL's Reply
	Project Cost (in Rs. Crores)	Completion Year	Project Cost (in Rs. Crores)	Completion Year		
S/c line at Happy Valley, Shillong					Project Completion Year: Mismatch	LILO length will be reduced with identification of a plot of land closer to the 132 KV line.
Establishment of 132/33 kV,2x25 MVA S/s at Pongtung	40	2030-31	40	2030-31	Project Cost: Matching Project Completion Year: Matching	
Sohra - Pongtung 132 kV D/c line (60 ckm) along with 2 Nos. 132kV line bays at Sohra 132/33kVS/s	72	2030-31	116.4	2030-31	Project Cost: Mismatch Project Completion Year: Matching	
New Shillong - IIM 132 kV S/c line (8 ckm) along with associated bays at both end	31.88	2028-29	31.88	2026-27	Project Cost: Matching Project Completion Year: Mismatch	Project completion has been extended as finds for the project are yet to be secured
Mawkhanu -Mawlyndep 132kVS/cline (30ckm) along with	119.58	2029-30	119.58	2028-29	Project Cost: Matching Project Completion	Project completion has been extended as finds

Name of Work	Petitioner Submission		As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya		Commission Analysis	MePTCL's Reply
	Project Cost (in Rs. Crores)	Completion Year	Project Cost (in Rs. Crores)	Completion Year		
associated bays at both end					Year: Mismatch	for the project are yet to be secured
Establishment of 132/33kV, 2x20 MVA S/s at Sutnga	38	2029-30	-	-	Could not be traced from CEA Plan	Submitted to CEA for approval and for inclusion in the Transmission Adequacy Plan up to 2036-37. Yet to be approved by CEA.
Khliehriat (PG) - Sutnga 132 KV S/c line (on D/C tower) along with 1 no. 132 KV bay each at Khliehriat (PG) and Sutnga S/s	45	2029-30	-	-	Could not be traced from CEA Plan	
Sutnga-Mawkhanu 132 KV D/c line along with 1 no. 132 KV bay each at Mawkhanu and Sutnga S/s	86	2029-30	-	-	Could not be traced from CEA Plan	
Restringing of NEHU - Mawlyndep-Mustem-Khliehriat 132 kV S/c line (56 ckm) with panther conductor	9.31	2028-29	12.26	2026-27	Project Cost: Mismatch Project Completion Year: Mismatch	The extended timeframe is warranted due to extension / delay in the tendering process and sanction of funds

Name of Work	Petitioner Submission		As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya		Commission Analysis	MePTCL's Reply
	Project Cost (in Rs. Crores)	Completion Year	Project Cost (in Rs. Crores)	Completion Year		
Restringing of Mawlai - Sohra 132kV S/c line (42ckm) (being LILOed at Mawphlang) with panther conductor	6.93	2028-29	9.54	2028-29	Project Cost: Mismatch Project Completion Year: Matching	The extended timeframe is warranted due to extension / delay in the tendering process and sanction of funds
Restringing of Mawphlang-Mawlai 132KVS/c line (20.26 ckm.) along with panther conductor	6.21	2029-30	6.21	2028-29	Project Cost: Matching Project Completion Year: Mismatch	Project completion has been extended as finds for the project are yet to be secured
Augmentation of S/s by Replacement of 132/33 kV, 1x5 (out of 2x20 + 1x5) MVA ICTs with 1x20 MVA ICTs at Rongkhon S/s	3	2028-29	0.8	2027-28	Project Cost: Mismatch Project Completion Year: Mismatch	One 132/33 KV, 20 MVA will be sourced from 132 KV Mawlai substation when work on the replacement of 3x20 MVA transformers by 3x50 MVA transformers will commence. Since LOA for the Augmentation work

Name of Work	Petitioner Submission		As per CEA Plan and Report on Intra State Transmission Resource Adequacy Plan for Meghalaya		Commission Analysis	MePTCL's Reply
	Project Cost (in Rs. Crores)	Completion Year	Project Cost (in Rs. Crores)	Completion Year		
						at 132 KV Mawlai S/S is expected only in November 2026, the time frame for completion of the augmentation work at Ronkhon S/S has been extended. Hoewver, it is expected that the work will be completed by 2027-28.
Augmentation of 132/33 kV, 1x50 MVA ICT with additional 1x50 MVA ICTs at EPIP-II S/s	12.02	2028-29	12.02	2027-28	Project Cost: Matching Project Completion Year: Mismatch	Project completion has been extended as finds for the project are yet to be secured
	2,097.11		**1,687.87**			

4.1.6. In view of the above, the Commission takes note of inconsistencies among the Petition tables regarding the number of proposed substations and lines, transformation capacity and augmentation works. Further, certain schemes and their costs/commissioning dates also differ from the CEA planning report, while a few schemes could not be traced in that report.

4.1.7. The Commission recognises the need for strengthening the transmission network in Meghalaya, considering the hilly terrain, long radial corridors, limited redundancy, weather-related outages and the requirement for secure transfer of power. However, technical necessity does not dispense with project-specific prudence. Accordingly, only schemes forming part of the CEA/competent planning process or supported by a detailed load-flow and contingency study shall proceed to financial commitment.

4.1.8. Therefore, the system expansion plan is approved by the Commission in principle, subject to scheme-wise technical validation, statutory approvals, cost benchmarking and funding tie-up.

4.2. Capitalization of Transmission Business

Petitioner's Submission

4.2.1. The petitioner has furnished the proposed year-wise capitalization of the identified transmission schemes during the Fifth Control Period, as presented in Table below:

Table 19: Year Wise Capitalization During Fifth Control Period

Name of Scheme	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Loop In and Loop Out of 132 KV Mendipathar-Nangalbibra S/C line at 220/132 KV Nangalbibra (ISTS) substation (temporary arrangement before balance funds are received for construction of 132 KV D/C line from 220/132 KV Nangalbibra (ISTS) substation to 132 KV Nangalbibra (MePTCL) substation	34.17	0	0	0	0
Construction of 2x50MVA, 132/33kV Substation at Mawkhanu, East Khasi Hills District, Meghalaya along with the construction of 132kV D/C Saisiej-Mawkhanu Line and GIS Bay at Saisiej, Meghalaya	0	0	111.49	0	0
Augmentation of 132/33kV Mawlai Sub-station from 3x20 MVA to 3x50 MVA along with re-engineering of 132kV Bus bar	0	0	79.23	0	0
Construction of 132 KV MLHEP-Mustem S/C line for redundant evacuatipn of power from MLHEP-1 power station	0	64	0	0	0
Construction of 220 KV Nangalbibra (ISTS) - Sohra D/C line	0	0	459	0	0
Construction of 220/132 KV, 2 x 100 MVA Sohra substation	0	0	60	0	0
Construction of 220 KV Sohra - New Shillong D/C line	0	0	236	0	0

Name of Scheme	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Construction of 132 kV double circuit LILO of Rongkhon - Ampati line at Praharinagar along with 132/33 KV, 1 x 25 MVA (with an additional transformer bay) sub-station at Prahinagar	0	33.3	0	0	0
Establishment of 132/33 kV, 2x25 MVA S/s Killing (New) near the existing Killing 400/220/132kVS/s	0	0	40	0	0
Killing (existing) – Killing (New)132kV D/c line (5 ckm) along with 2 Nos. 132kV line bays at Killing 400/220/132kVS/s	0	0	9.5	0	0
Establishment of 132/33kV, 2x25 MVA S/s at Kynshi	0	44	0	0	0
LILO of 132 KV Mawphlang-Nongstoin S/C line at Kynshi	0	3.6	0	0	0
Establishment of 132/33 kV,2x25 MVA S/s at Baghmara	0	0	0	0	40
Nangalbibra (ISTS) – Baghmara 132 kV D/c line– (150 ckm) along with 2 Nos. 132 kV line bays at Nangalbibra (ISTS) S/s	0	0	0	0	313.74
Establishment of 132/33kV, 2x25 MVAS/s at Happy Valley, Shillong	0	0	0	0	48
LILO of 132KV Mawlyndep-NEHU S/c line at Happy Valley, Shillong	0	0	0	0	39.65
Establishment of 132/33 kV,2x25 MVA S/s at Pongtung	0	0	0	40	0
Sohra – Pongtung 132 kV D/c line (60 ckm) along with 2 Nos. 132kV line bays at Sohra 132/33kVS/s	0	0	0	72	0
New Shillong – IIM 132 kV S/c line (8 ckm) along with associated bays at both end	0	31.88	0	0	0
Mawkhanu -Mawlyndep 132kVS/cline (30ckm) along with associated bays at both end	0	0	119.58	0	0

Name of Scheme	**FY 2027-28**	**FY 2028-29**	**FY 2029-30**	**FY 2030-31**	**FY 2031-32**
Establishment of 132/33kV, 2x20 MVA S/s at Sutnga	0	0	38	0	0
Khliehriat (PG) – Sutnga 132 KV S/c line (on D/C tower) along with 1 no. 132 KV bay each at Khliehriat (PG) and Sutnga S/s	0	0	45	0	0
Sutnga-Mawkhanu 132 KV D/c line along with 1 no. 132 KV bay each at Mawkhanu and Sutnga S/s	0	0	86	0	0
Restringing of NEHU – Mawlyndep- Mustem-Khliehriat 132 kV S/c line (56 ckm) with panther conductor	9.31	0	0	0	0
Restringing of Mawlai – Sohra 132kV S/c line (42ckm) (being LILOed at Mawphlang) with panther conductor	6.93	0	0	0	0
Restringing of Mawphlang-Mawlai 132KVS/c line (20.26 ckm.) along with panther conductor	0	0	6.21	0	0
Augmentation of S/s by Replacement of 132/33 kV, 1x5 (out of 2x20 + 1x5) MVA ICTs with 1x20 MVA ICTs at Rongkhon S/s	0	3	0	0	0
Augmentation of 132/33 kV, 1x50 MVA ICT with additional 1x50 MVA ICTs at EPIP-II S/s	0	12.02	0	0	0
Total	**50.41**	**191.8**	**1290.01**	**112**	**441.39**

4.2.2. The scheme wise year wise capitalization during the control period is as under:

Table 20: Scheme Wise Breakup of Capitalization During Fifth Control Period

Name of the Project	Project Value (IN INR Crs.)	Grant Amount-Central (IN INR Crs.)	Grant Amount-State (In INR Crs.)	Self Funding To be left blank	Expected Date of Completion of the Project	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Construction of 2x50MVA, 132/33kV Substation at Mawkhanu, East Khasi Hills District, Meghalaya along with the construction of 132kV D/C Saisiej-Mawkhanu Line and GIS Bay at Saisiej, Meghalaya	111.49	PM-DevINE (72.48 cr)	39.01		36 months from the date of issue of LoA (September 2026)	NIL	NIL	111.49		
Augmentation of 132/33kV Mawlai Sub-station from 3x20 MVA to 3x50 MVA along with re-engineering of 132kV Bus bar	79.23 (subject to revision)	NESIDS-OTRI (49.80 cr from MDoNER)	29.43		36 months from the date of issue of LoA (expected in September 2026)	NIL	NIL	79.23 (subject to revision)		
Construction of 132 KV MLHEP-Mustem S/C line for redundant evacuatipn of power from MLHEP-1 power station	64.00	NESIDS-OTRI (49.95 cr from MDoNER)	14.05		24 months from the date of issue of LoA (expected in September 2026)	NIL	64.00			
Construction of 220 KV Nangalbibra (ISTS) - Sohra D/C line	459.00	EAP (367.20)	91.80		36 months from the date of issue of LoA (expected in April 2027)	NIL	NIL	459.00		

Name of the Project	Project Value (IN INR Crs.)	Grant Amount-Central (IN INR Crs.)	Grant Amount-State (In INR Crs.)	Self Funding To be left blank	Expected Date of Completion of the Project	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Construction of 220/132 KV, 2 x 100 MVA Sohra substation	60.00	EAP (48.00)	12.00		36 months from the date of issue of LoA (expected in April 2027)	NIL	NIL	60.00		
Construction of 220 KV Sohra - New Shillong D/C line	236.00	EAP (188.80)	47.20		36 months from the date of issue of LoA (expected in April 2027)	NIL	NIL	236.00		
Construction of 132 kV double circuit LILO of Rongkhon - Ampati line at Praharinagar along with 132/33 KV, 1 x 25 MVA (with an additional transformer bay) sub-station at Prahinagar	33.3		Special Plan Assistance (SPA) (27.60 cr)		24 months from the date of issue of LoA (expected in October 2026)	NIL	33.3			
Establishment of 132/33 kV, 2x25 MVA S/s Killing (New) near the existing Killing 400/220/132kVS/s	40.00	Source of Funding to be decided				NIL	NIL	40.00		

Name of the Project	Project Value (IN INR Crs.)	Grant Amount-Central (IN INR Crs.)	Grant Amount-State (In INR Crs.)	Self Funding To be left blank	Expected Date of Completion of the Project	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Killing (existing) – Killing (New)132kV D/c line (5 ckm) along with 2 Nos. 132kV line bays at Killing 400/220/132kVS/s	9.50	Source of Funding to be decided				NIL	NIL	9.50		
Establishment of 132/33kV, 2x25 MVA S/s at Kynshi	44.00	Source of Funding to be decided				NIL	44.00			
LILO of 132 KV Mawphlang-Nongstoin S/C line at Kynshi	3.60	Source of Funding to be decided				NIL	3.60			
Establishment of 132/33 kV,2x25 MVA S/s at Baghmara	40.00	Source of Funding to be decided				NIL	NIL	NIL	NIL	40.00
Nangalbibra (ISTS) – Baghmara 132 kV D/c line– (150 ckm) along with 2 Nos. 132 kV line bays at Nangalbibra (ISTS) S/s	313.74	Source of Funding to be decided				NIL	NIL	NIL	NIL	313.74

Name of the Project	Project Value (IN INR Crs.)	Grant Amount-Central (IN INR Crs.)	Grant Amount-State (In INR Crs.)	Self Funding To be left blank	Expected Date of Completion of the Project	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Establishment of 132/33kV, 2x25 MVAS/s at Happy Valley, Shillong	48.00	Source of Funding to be decided				NIL	NIL	NIL	NIL	48.00
LILO of 132KV Mawlyndep-NEHU S/c line at Happy Valley, Shillong	39.65	Source of Funding to be decided				NIL	NIL	NIL	NIL	39.65
Establishment of 132/33 kV,2x25 MVA S/s at Pongtung	40.00	Source of Funding to be decided				NIL	NIL	NIL	40.00	
Sohra – Pongtung 132 kV D/c line (60 ckm) along with 2 Nos. 132kV line bays at Sohra 132/33kVS/s	72.00	Source of Funding to be decided				NIL	NIL	NIL	72.00	
New Shillong – IIM 132 kV S/c line (8 ckm) along with associated bays at both end	31.88	Source of Funding to be decided				NIL	31.88			

Name of the Project	Project Value (IN INR Crs.)	Grant Amount-Central (IN INR Crs.)	Grant Amount-State (In INR Crs.)	Self Funding To be left blank	Expected Date of Completion of the Project	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Mawkhanu -Mawlyndep 132kVS/cline (30ckm) along with associated bays at both end	119.58	Source of Funding to be decided				NIL	NIL	119.58		
Establishment of 132/33kV, 2x20 MVA S/s at Sutnga	38.00	Source of Funding to be decided				NIL	NIL	38.00		
Khliehriat (PG) – Sutnga 132 KV S/c line (on D/C tower) along with 1 no. 132 KV bay each at Khliehriat (PG) and Sutnga S/s	45.00	Source of Funding to be decided				NIL	NIL	45.00		
Sutnga-Mawkhanu 132 KV D/c line along with 1 no. 132 KV bay each at Mawkhanu and Sutnga S/s	86.00	Source of Funding to be decided				NIL	NIL	86.00		
Restringing of NEHU – Mawlyndep- Mustem-Khliehriat 132 kV S/c line (56 ckm) with panther conductor	9.31	NESIDS-OTRI (9.31 cr from MDoNER)			24 months from the date of issue of LoA (expected in September 2026)	9.31				

Name of the Project	Project Value (IN INR Crs.)	Grant Amount-Central (IN INR Crs.)	Grant Amount-State (In INR Crs.)	Self Funding To be left blank	Expected Date of Completion of the Project	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Restringing of Mawlai – Sohra 132kV S/c line (42ckm) (being LILOed at Mawphlang) with panther conductor	6.93	NESIDS-OTRI (6.93 cr from MDoNER)			24 months from the date of issue of LoA (expected in September 2026)	6.93				
Restringing of Mawphlang-Mawlai 132KVS/c line (20.26 ckm) along with panther conductor	6.21	Source of Funding to be decided				NIL	NIL	6.21		
Augmentation of S/s by Replacement of 132/33 kV, 1x5 (out of 2x20 + 1x5) MVA ICTs with 1x20 MVA ICTs at Rongkhon S/s	3.00	Source of Funding to be decided				NIL	3.00			
Augmentation of 132/33 kV, 1x50 MVA ICT with additional 1x50 MVA ICTs at EPIP-II S/s	12.02	Source of Funding to be decided				NIL	12.02			

Commission' Analysis

4.2.3. The Commission has examined the proposed capital investment plan of MePTCL for the Fifth Control Period, comprising development of new 132 kV and 220 kV substations and transmission lines, construction of LILO arrangements, augmentation of existing substations and transformation capacity, replacement of transformers, and restringing of existing transmission lines with higher-capacity conductors. The proposed works are intended to strengthen the intra-State transmission network, improve connectivity and transformation capacity, facilitate evacuation of power from generating stations, enhance system reliability and cater to the anticipated growth in electricity demand across the State. The Commission has also taken note of the Petitioner's submission that the investment plan has been prepared based on the Intra-State Transmission Plan approved by the CEA.

4.2.4. During the scrutiny of the Petition, the Commission had sought additional information regarding the status of ongoing projects, the basis of the proposed capitalization, differences between the tentative completion and capitalization years, and the funding arrangements for the proposed schemes. In response, MePTCL clarified that capitalization is proposed after completion of the works, upon submission of final bills, inspection and completion of pending punch-point activities. Accordingly, there may be a time lag between the physical completion of a scheme and its capitalization. The Commission has taken note of the Petitioner's clarification in this regard.

4.2.5. In view of the transmission system development requirements and the submissions made by the Petitioner, the Commission accords in-principle approval to the proposed schemes for inclusion in the Business Plan for the Fifth Control Period, as detailed below in the subsequent sections. However, the actual capitalization shall be considered only upon completion and commissioning of the respective schemes and their being put to use, subject to prudence check of the actual expenditure incurred, scheme-wise scope of work, and supporting completion and commissioning certificates.

4.2.6. In view of the above, the Commission emphasises that the scheme-wise scope, cost estimates, implementation schedule and funding arrangements shall be supported by detailed project reports, technical studies, cost estimates and requisite approvals at the relevant stage. In particular, the funding arrangements indicated in the Petition shall be substantiated through documentary evidence of the actual funding received and utilised, including grant sanction and release orders, loan sanction letters and disbursement details, and evidence of equity contribution, as applicable.

4.2.7. The Petitioner shall maintain the funding pattern proposed in the Petition at the time of capitalization. In the event of any variation in the approved project cost, scope, funding pattern or year-wise capitalization, the Petitioner

shall furnish the revised details along with adequate justification and supporting documents for the Commission's consideration. Any change in the funding pattern, including substitution of the proposed debt-equity funding by grant assistance, shall be duly supported by the approval of the competent authority. The admissibility of the actual capital expenditure and its corresponding funding treatment shall be determined in accordance with the provisions of the MSERC (Multi Year Tariff) (5 of 2026) Regulations, 2026.

4.2.8. In view of the transmission system development requirements and the submissions made by the Petitioner, the Commission accords in-principle approval to the proposed schemes for inclusion in the Business Plan for the Fifth Control Period, as detailed in the subsequent table. However, actual capitalization shall be considered only upon completion and commissioning of the respective schemes and their being put to use, subject to prudence check of the actual expenditure incurred, the approved scope of work and supporting completion and commissioning certificates.

4.2.9. Any variation in the approved project cost, scope or year-wise capitalization shall be supported by adequate justification and relevant documentary evidence for the Commission's consideration. The admissibility of actual capital expenditure shall be determined in accordance with the provisions of the MSERC (Multi Year Tariff) (5 of 2026) Regulations, 2026.

4.2.10. The scheme-wise capital investment and year-wise capitalization considered by the Commission for the Fifth Control Period are presented below:

Table 21: Capitalization of Transmission Business as approved by the Commission

Name of Scheme	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Loop In and Loop Out of 132 KV Mendipathar-Nangalbibra S/C line at 220/132 KV Nangalbibra (ISTS) substation (temporary arrangement before balance funds are received for construction of 132 KV D/C line from 220/132 KV Nangalbibra (ISTS) substation to 132 KV Nangalbibra (MePTCL) substation	34.17	0	0	0	0
Construction of 2x50MVA, 132/33kV Substation at Mawkhanu, East Khasi Hills District, Meghalaya along with the construction of 132kV D/C Saisiej-Mawkhanu Line and GIS Bay at Saisiej, Meghalaya	0	0	111.49	0	0

Name of Scheme	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
Augmentation of 132/33kV Mawlai Sub-station from 3x20 MVA to 3x50 MVA along with re-engineering of 132kV Bus bar	0	79.23	0	0	0
Construction of 132 KV MLHEP-Mustem S/C line for redundant evacuatipn of power from MLHEP-1 power station	64	0	0	0	0
Construction of 220 KV Nangalbibra (ISTS) - Sohra D/C line	0	0	459	0	0
Construction of 220/132 KV, 2 x 100 MVA Sohra substation	0	0	60	0	0
Construction of 220 KV Sohra - New Shillong D/C line	0	0	236	0	0
Construction of 132 kV double circuit LILO of Rongkhon - Ampati line at Praharinagar along with 132/33 KV, 1 x 25 MVA (with an additional transformer bay) sub-station at Prahinagar	33.3	0	0	0	0
Establishment of 132/33 kV, 2x25 MVA S/s Killing (New) near the existing Killing 400/220/132kVS/s	0	0	40	0	0
Killing (existing) – Killing (New)132kV D/c line (5 ckm) along with 2 Nos. 132kV line bays at Killing 400/220/132kVS/s	0	0	9.5	0	0
Establishment of 132/33kV, 2x25 MVA S/s at Kynshi	0	44	0	0	0
LILO of 132 KV Mawphlang-Nongstoin S/C line at Kynshi	0	3.6	0	0	0
Establishment of 132/33 kV,2x25 MVA S/s at Baghmara	0	0	0	0	40
Nangalbibra (ISTS) – Baghmara 132 kV D/c line– (150 ckm) along with 2 Nos. 132 kV line bays at Nangalbibra (ISTS) S/s	0	0	0	0	313.74
Establishment of 132/33kV, 2x25 MVAS/s at Happy Valley, Shillong	0	0	0	0	48
LILO of 132KV Mawlyndep-NEHU S/c line at Happy Valley, Shillong	0	0	0	0	39.65
Establishment of 132/33 kV,2x25 MVA S/s	0	0	0	40	0

Name of Scheme	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32
at Pongtung					
Sohra – Pongtung 132 kV D/c line (60 ckm) along with 2 Nos. 132kV line bays at Sohra 132/33kVS/s	0	0	0	72	0
New Shillong – IIM 132 kV S/c line (8 ckm) along with associated bays at both end	0	31.88	0	0	0
Mawkhanu -Mawlyndep 132kVS/cline (30ckm) along with associated bays at both end	0	0	119.58	0	0
Establishment of 132/33kV, 2x20 MVA S/s at Sutnga	0	0	38	0	0
Khliehriat (PG) – Sutnga 132 KV S/c line (on D/C tower) along with 1 no. 132 KV bay each at Khliehriat (PG) and Sutnga S/s	0	0	45	0	0
Sutnga-Mawkhanu 132 KV D/c line along with 1 no. 132 KV bay each at Mawkhanu and Sutnga S/s	0	0	86	0	0
Restringing of NEHU – Mawlyndep-Mustem-Khliehriat 132 kV S/c line (56 ckm) with panther conductor	0	9.31	0	0	0
Restringing of Mawlai – Sohra 132kV S/c line (42ckm) (being LILOed at Mawphlang) with panther conductor	0	6.93	0	0	0
Restringing of Mawphlang-Mawlai 132KVS/c line (20.26 ckm.) along with panther conductor	0	0	6.21	0	0
Augmentation of S/s by Replacement of 132/33 kV, 1x5 (out of 2x20 + 1x5) MVA ICTs with 1x20 MVA ICTs at Rongkhon S/s	0	3	0	0	0
Augmentation of 132/33 kV, 1x50 MVA ICT with additional 1x50 MVA ICTs at EPIP-II S/s	0	12.02	0	0	0
Total	**131.47**	**189.97**	**1210.78**	**112**	**441.39**

4.3. Funding pattern of the capitalization for Transmission Business

Petitioner's Submission

4.3.1. The Petitioner has submitted year-wise funding corresponding to the capitalization indicated in the petition. The funding has been categorised into grants for ongoing and upcoming projects, and debt-equity funding for ongoing and upcoming projects.

4.3.2. The Petitioner also submitted that, for projects where funding has not been finalised, a provisional debt-equity ratio of 70:30 has been considered. It has further stated that the funding requirement has been raised before NERPC, CEA and MoP, where a scheme on the lines of NERPSIP has been suggested. Accordingly, the Petitioner has requested the Commission to allow revision of the proposed funding pattern upon approval of grants by the MoP or any other competent authority. The year-wise funding summary is presented in Table below:

Table 22: Proposed Summary of Year-wise Funding Pattern of the Projected Capitalization as submitted by Petitioner

Particular	**2027-28**	**2028-29**	**2029-30**	**2030-31**	**2031-32**
Additional Capitalization Funded Through Grants- Ongoing	34.17	0	0	0	0
Additional Capitalization Funded Through Grants- Upcoming	16.24	97.3	945.72	0	0
Additional Capitalization Funded Through Debt -Equity-Ongoing	0	0	0	0	0
Additional Capitalization Funded Through Debt Equity-Upcoming	0	94.5	344.29	112	441.39
Total	**50.41**	**191.8**	**1290.01**	**112**	**441.39**

Commission's Analysis

4.3.3. The Commission has examined the year-wise funding pattern proposed by the Petitioner and has taken note of the proposed funding through grants for ongoing and upcoming projects, and through debt and equity for projects where grant assistance has not been finalised. The Commission observes that the proposed funding pattern is provisional in respect of certain schemes and is subject to approval and availability of grants or other funding arrangements.

4.3.4. Accordingly, the Commission has in-principle approved the funding pattern as proposed by the Petitioner for the purpose of the Business Plan. The

Petitioner shall maintain the proposed funding pattern at the time of capitalization and furnish supporting documents, including grant sanction and release orders, loan sanction letters and disbursement details, and evidence of equity infusion, as applicable.

4.3.5. In case of any change in the funding pattern, including receipt of grants in place of the proposed debt-equity funding, the Petitioner shall submit the revised funding details along with approval from the competent authority and relevant supporting documents. Any variation in the funding pattern or any additional financing cost arising therefrom shall be considered for tariff determination only after prudence check and in accordance with the provisions of the MSERC (Multi Year Tariff) (5 of 2026) Regulations, 2026.

Table 23: Approved Summary of Year-wise Funding Pattern of the Proposed Capitalization

Particular	**2027-28**	**2028-29**	**2029-30**	**2030-31**	**2031-32**
Additional Capitalization Funded Through Grants- Ongoing	34.17	0	0	0	0
Additional Capitalization Funded Through Grants- Upcoming	16.24	97.3	945.72	0	0
Additional Capitalization Funded Through Debt -Equity-Ongoing	0	0	0	0	0
Additional Capitalization Funded Through Debt Equity-Upcoming	0	94.5	344.29	112	441.39
Total	**50.41**	**191.8**	**1290.01**	**112**	**441.39**

5. Key Performance Parameters for SLDC Business

Petitioner's Submission

5.1.0. The Petitioner has not submitted any projected Operational Parameters for the Fifth Control Period in the Petition.

Commission's Analysis

5.1.1. The Commission has observed the fact about non-submission of proposed data for proposed details of all technical parameters, not limited to Availability of SCADA, Availability of Web Based Scheduling, Timely issuance of State Energy Accounting Statement and Timely issuance of Transmission Loss Statement etc. in the Petition. Accordingly, the Commission directed the Petitioner to furnish the year-wise proposed figures for FY 2027-28 to FY 2031-32 vide Second Additional Information Requirement. In reply, the Petitioner submitted the following details:

Table 24: Proposed key operational parameters as submitted by Petitioner

Parameter	2027-28	2028-29	2029-30	2030-31	2031-32
SCADA Availability	99.00%	99.00%	99.25%	99.50%	99.50%
Web Based Scheduling System	99.00%	99.00%	99.25%	99.50%	99.50%
Issuance of SEA	By 10th of Every Month	By 10th of Every Month	By 10th of Every Month	By 10th of Every Month	By 10th of Every Month
Transmission Loss Statement	15th of Every Month	15th of Every Month	15th of Every Month	15th of Every Month	15th of Every Month

*State Energy Accounts and Transmission loss statement shall be issued for previous month on the dates mentioned above.

5.1.2. The Commission takes the proposed target on record for planning purposes only. The approval shall not restrict the Petitioner from achieving higher availability, and incentive or disincentive, wherever applicable, shall be governed by the Regulations.

6. Capital Investment Plan of SLDC Business

6.1. Capital Expenditure and Funding Pattern for Fifth Control Period for SLDC

Petitioner's Submission

6.1.0. The Petitioner has submitted the capital expenditure and capitalization during the fourth control period and further mentioned that due to funding constraints none of the projects could be taken up during the fourth control

period i.e., FY 2024-25 to FY 2026-27. Hence the Petitioner (MePTCL) has re assessed the projections and have included some of the projects that were projected to be undertaken during fourth control period and has also included some new schemes/ projects for capitalization during fifth control period i.e., FY 2027-28 to FY 2031-32.

6.1.1. The Petitioner proposed SLDC capital investment/capitalisation of Rs. 139.70 crore during the Fifth Control Period, including modernisation and augmentation of SCADA/EMS and communication systems, cyber-security and physical-security measures, construction of a new SLDC building, establishment of a backup control centre/data centre and other operational infrastructure

Table 25: Proposed Capitalization in Fifth Control Period for SLDC Business as submitted by the Petitioner

Name of Scheme	Scheme Amount	Grants	In House Funding	Tentative date of completion
Expansion of Automatic Demand Management System	0.50	0.00	0.50	2027-28
Establishment of VSAT communication system in select stations of Meghalaya	0.50	0.00	0.50	2027-28
Establishment of 24*7 Security Operation Centre (SOC) for Cyber Security of SLDC assets and information security	20.00	18.00	2.00	2027-28
Procurement of Load Forecasting tool	0.70	0.00	0.70	2027-28
Procurement & Installation of Data Analytics Engine	5.00	0.00	5.00	2027-28
Construction of New SLDC Building	12.00	0.00	12.00	2028-29
Construction of back up SLDC Control Centre / Data Recovery Centre	1.00	0.00	1.00	2027-28
Upgradation of Software, Hardware and associated systems for SCADA-EMS system in Meghalaya SLDC	100.00	70.00	30.00	2028-29
Total	**139.70**	**88.00**	**51.70**	

Commission's Analysis

6.1.2. The Commission observed that none of the SLDC projects approved for the Fourth Control Period could be undertaken due to funding constraints and in this regard, directed MePTCL to clarify the reasons for the deferment, modification or discontinuation of the respective projects. In reply, the Petitioner submitted the table below:

Table 26: Scheme wise justification for deferment of Capital Investment Plan for SLDC Business as submitted by the Petitioner

Name of Scheme	Scheme Amount (Rs Crores) for 4th Control Period (as mentioned in Table 14 of Petition)	Scheme Amount (Rs Crores) for 5th Control Period (as mentioned in Table 15 of Petition)	Commission's Directive	MePTCL's Response
Expansion of Automatic Demand Management System	17.58	0.50	The Commission sought clarification whether any portion of Rs. 17.58 Crores of 4th Control Period is included in the Scheme Amount for 5th Control Period or entire portion of the project of 4th Control Period has not been taken up in 5th Control Period	MePTCL clarified that the works could not be taken up in fourth control period due to funding constraints and hence only a portion of the same is considered in the current control period based on only necessary requirement. However, MePTCL craves leave to revise the same based on actual need during the mid-term review of the business plan.
Procurement for installation of Remote Terminal Units in selected stations for transmission of real time data to Meghalaya SLDC	5.52	0.00	The Commission directed the Petitioner to clarify whether entire portion of the project of 4th Control Period has not been taken up in 5th Control Period	MePTCL submitted that based on the assessment of necessity, the works are not required at this point of time and hence the same has not been included in the projections.
Establishment of VSAT communication system in select stations of Meghalaya	0.32	0.50	Petitioner was directed to clarify whether any portion of Rs. 0.32 Crores of 4th Control Period is included in the Scheme Amount for 5th Control Period or entire portion of the project of 4th Control Period has not	MePTCL mentioned that the proposed works could not be taken up in fourth control period due to funding constraints and hence it is projected to be taken up in the current control period. The projected cost is based

Name of Scheme	Scheme Amount (Rs Crores) for 4th Control Period (as mentioned in Table 14 of Petition)	Scheme Amount (Rs Crores) for 5th Control Period (as mentioned in Table 15 of Petition)	Commission's Directive	MePTCL's Response
			been taken up in 5th Control Period	on the current estimates.
Establishment of 24*7 Security Operation Centre (SOC) for Cyber Security of SLDC assets and information security	15.00	20.00	Clarification was sought from the Petitioner whether any portion of Rs. 15.00 Crores of 4th Control Period is included in the Scheme Amount for 5th Control Period or entire portion of the project of 4th Control Period has not been taken up in 5th Control Period	
Procurement of Load Forecasting tool	0.70	0.70	The Commission asked the clarification whether any portion of Rs. 0.70 Crores of 4th Control Period is included in the Scheme Amount for 5th Control Period or entire portion of the project of 4th Control Period has not been taken up in 5th Control Period	MePTCL explained that the proposed works could not be taken up in fourth control period due to funding constraints and hence it is projected to be taken up in the current control period.
Procurement & Installation of Data Analytics Engine	6.60	5.00	Petitioner was directed to clarify whether any portion of Rs. 6.60 Crores of 4th Control Period is included in the Scheme Amount for 5th Control Period or entire portion of the project of 4th Control Period has not been taken up in 5th Control Period	
Construction of SAMAST Building	2.0	0.00	The Commission sought clarification whether entire portion of the project of 4th Control Period has not been taken up in 5th Control Period	MePTCL submitted that the works could not be taken up in Fourth control period and based on the need assessment the requirement has been dropped in the current control period.

Name of Scheme	Scheme Amount (Rs Crores) for 4th Control Period (as mentioned in Table 14 of Petition)	Scheme Amount (Rs Crores) for 5th Control Period (as mentioned in Table 15 of Petition)	Commission's Directive	MePTCL's Response
Construction of back up SLDC Control Centre / Data Recovery Centre	3.50	1.00	Clarification was sought whether any portion of Rs. 3.50 Crores of 4th Control Period is included in the Scheme Amount for 5th Control Period or entire portion of the project of 4th Control Period has not been taken up in 5th Control Period	MePTCL submitted that, as a cost-optimisation measure, the proposal for constructing a new SLDC building was dropped and replaced with the construction of an additional floor in the existing building. MePTCL further stated that the other proposed works could not be undertaken during the Fourth Control Period due to funding constraints and have therefore been carried forward to the Fifth Control Period.
Upgradation of Software, Hardware and associated systems for SCADA-EMS system in Meghalaya SLDC	44.46	100.00	Petitioner was directed to clarify whether any portion of Rs. 44.46 Crores of 4th Control Period is included in the Scheme Amount for 5th Control Period or entire portion of the project of 4th Control Period has not been taken up in 5th Control Period	MePTCL submitted that the proposed works could not be undertaken during the Fourth Control Period due to delays in funding from the Ministry of Power and have therefore been carried forward to the Fifth Control Period. The works, initially entrusted to GRID-INDIA, have subsequently been assigned to PGCIL. Based on PGCIL's verbal estimate, the project cost is expected to be approximately Rs. 100 crore, although written confirmation is awaited.

6.1.3. The Commission recognizes that a modern, resilient and cyber-secure SLDC is essential for reliable grid operation, renewable-energy integration, scheduling, metering, energy accounting, outage coordination and compliance with the Indian Electricity Grid Code and applicable standards.

6.1.4. However, several schemes are carry-forwarded or modified from the Fourth Control Period and it requires proper reconciliation between previously approved cost vis-à-vis Fifth Control Period cost. The Petitioner shall avoid duplication with assets funded under earlier schemes and shall follow interoperable, scalable and standards-compliant architecture.

6.1.5. SLDC technology procurement shall include lifecycle cost, software licences, annual maintenance, cyber-security audit, disaster-recovery arrangements, data retention, training and vendor-lock-in mitigation. The Commission shall recognize only assets demonstrably dedicated to SLDC functions.

6.1.6. The Commission accords in-principle approval to the SLDC capital investment envelope of up to Rs. 139.70 crore in this Order.

6.1.7. The SLDC funding plan of Rs. 88.00 crore grant and Rs. 51.70 crore in-house funding is approved provisionally, subject to documentary evidence and prudence check at the time of True-Up and Tariff Order.

6.1.8. However, the actual capitalization shall be allowed only after prudence check based on package-wise actual expenditure, physical completion, commissioning and put-to-use certificates duly verified by statutory auditor.

6.2. Capitalization for Fifth Control Period for SLDC Business

Petitioner's Submission

6.2.1. The Petitioned has submitted Proposed Scheme Wise Year Wise Capitalization for Fifth Control Period for SLDC as follows:

Table 27: Proposed Scheme Wise Year Wise Capitalization for Fifth Control Period For SLDC

Name of Project/ Scheme	Capitalization 2027-28	Capitalization 2028-29	Capitalization 2029-30	Capitalization 2030-31	Capitalization 2031-32
Expansion of Automatic Demand Management System	0	0.5	0	0	0
Establishment of VSAT communication system in select stations of Meghalaya	0	0.5	0	0	0

Name of Project/ Scheme	Capitalization 2027-28	Capitalization 2028-29	Capitalization 2029-30	Capitalization 2030-31	Capitalization 2031-32
Establishment of 24*7 Security Operation Centre (SOC) for Cyber Security of SLDC assets and information security	0	10	10	0	0
Procurement of Load Forecasting tool	0.7	0	0	0	0
Procurement & Installation of Data Analytics Engine	5	0	0	0	0
Construction of New SLDC Building	0	0	6	6	0
Construction of back up SLDC Control Centre / Data Recovery Centre	0	0	1	0	0
Upgradation of Software, Hardware and associated systems for SCADA-EMS system in Meghalaya SLDC	0	0	60	20	20
Total	**5.7**	**11**	**77**	**26**	**20**

Commission's Analysis

6.2.2. MePTCL vide First Additional Information Requirement was directed to furnish the Government grant approval letters and in response, MePTCL submitted that Government approval for grant funding of the aforesaid projects is under process and requested liberty to furnish the relevant

approval letters upon receipt. MePTCL further confirmed that the projects would be funded through grants to the extent indicated in Table 15 of the Petition.

6.2.3. The Commission further noted that the assumptions, methodology and basis adopted for the proposed year-wise capitalisation had not been demonstrated in the Petition and sought the relevant details. In reply of the above query, it has been clarified by the Petitioner that activities such as submission and verification of final bills, inspection of completed works and rectification of punch-point items are undertaken after physical completion of the projects. Accordingly, the Petitioner further added that the consequential timing difference between capital expenditure and capitalisation has been considered by capitalising the respective projects in the year subsequent to their completion.

6.2.4. The Commission also observed inconsistencies between the proposed completion years and capitalisation schedules of several SLDC schemes. In this regard, vide First Additional Information Requirement, the Commission sought the revised project-wise implementation and capitalisation schedules, explaining the timing differences and confirming the expected commissioning and capitalisation years. In reply, the Petitioner referred the same response which has been captured above in para 6.2.2.

6.2.5. The Commission has examined the proposed capital investment and capitalisation plan for the SLDC Business during the Fifth Control Period. The proposed schemes include expansion of the Automatic Demand Management System, establishment of VSAT communication facilities, establishment of a 24×7 Security Operations Centre, procurement of a Load Forecasting Tool, procurement and installation of a Data Analytics Engine, augmentation of the existing SLDC building, establishment of a backup SLDC Control Centre/Data Recovery Centre, and upgradation of the SCADA-EMS system.

6.2.6. The Commission observes that, considering the increasing complexity of grid operations, dispersed geographical conditions of the State, growing electricity demand and greater dependence on digital communication and control systems, strengthening and modernisation of the SLDC infrastructure is necessary for improving real-time grid visibility, system security, operational efficiency, communication reliability, forecasting accuracy, cyber resilience and disaster-recovery capability. The proposed schemes are also expected to support reliable scheduling, system planning, energy accounting and compliance with the applicable Grid Code, cybersecurity requirements and other regulatory provisions.

6.2.7. However, the Commission observes that the Petitioner has not furnished adequate scheme-wise details regarding the technical scope, system architecture, specifications, implementation methodology, procurement

strategy, measurable outcomes, cost estimates, cost-benefit analysis, funding arrangements and approvals of the competent authority. Further, certain schemes proposed during the Fourth Control Period could not be undertaken due to delays in the availability of funds and have been carried forward to the Fifth Control Period with revisions in scope and cost.

6.2.8. In view of the strategic importance of the proposed schemes for secure and reliable grid operation, the Commission considers it appropriate to accord in-principle approval to the schemes, subject to submission of the detailed project reports, technical and financial justification, approval of the competent authority, confirmation of funding arrangements and subsequent prudence check at the investment approval and capitalisation stages.

6.2.9. The proposed capitalisation shall not constitute an automatic entitlement to tariff recovery and shall be admitted only to the extent of assets actually commissioned and put to use, based on audited expenditure and after adjustment of grants and prudence check at the time of ARR and True-Up. The Petitioner shall also furnish scheme-wise completion and commissioning dates and justify any difference between the year of project completion and the year of capitalisation.

6.2.10. The Commission is of the view that Capitalisation shall be allowed only after commissioning and beneficial use. Shared assets shall be allocated between Transmission and SLDC businesses on a transparent, causation-based and consistently applied methodology, duly certified by the statutory auditor or an independent auditor acceptable to the Commission.

6.2.11. The Petitioner shall maintain separate regulatory accounts for Transmission and SLDC businesses and shall ensure that no cost, asset, grant, loan, employee expense or common-service allocation is claimed twice.

6.2.12. In view of the above, the Commission accords in-principle approval of year of capitalization of each scheme as follows:

Table 28: Approved Year Wise Capitalization (SLDC) for Fifth Control Period

Name of Project/ Scheme	Capitalization 2027-28	Capitalization 2028-29	Capitalization 2029-30	Capitalization 2030-31	Capitalization 2031-32
Expansion of Automatic Demand Management System	0.5	0	0	0	0
Establishment of VSAT communication system in select	0.5	0	0	0	0

Name of Project/ Scheme	Capitalization 2027-28	Capitalization 2028-29	Capitalization 2029-30	Capitalization 2030-31	Capitalization 2031-32
stations of Meghalaya					
Establishment of 24*7 Security Operation Centre (SOC) for Cyber Security of SLDC assets and information security	20	0	0	0	0
Procurement of Load Forecasting tool	0.7	0	0	0	0
Procurement & Installation of Data Analytics Engine	5	0	0	0	0
Construction of New SLDC Building	0	12	0	0	0
Construction of back up SLDC Control Centre / Data Recovery Centre	1	0	0	0	0
Upgradation of Software, Hardware and associated systems for SCADA-EMS system in Meghalaya SLDC	0	100	0	0	0
Total	**27.7**	**112**	**0**	**0**	**0**

6.3. SLDC Manpower Plan

Petitioner's Submission

6.3.0. The Petitioner submitted that Meghalaya SLDC has been classified as an "Emerging SLDC" and that the indicative manpower requirement is 62 personnel. Considering the existing shortage and operational requirements, the Petitioner proposed phased recruitment, beginning with 13 personnel in Phase I.

Commission's Analysis

6.3.1. The Commission recognises that round-the-clock grid operation requires adequate manpower across system operation, market operation, scheduling, energy accounting, protection coordination, communication, cyber security, information technology and administrative support. At the same time, manpower approval must be linked to a sanctioned organisational structure, role descriptions, shift deployment, qualification norms and avoidance of duplication with MePTCL/MeECL corporate functions.

6.3.2. The Commission approves the Phase-I recruitment of up to 13 personnel in principle, subject to approval of the competent authority and transparent recruitment. Before further recruitment, the Petitioner shall submit a comprehensive manpower study showing sanctioned strength, persons in position, vacancies, retirement profile, outsourced functions, shift roster, competency gaps and year-wise financial impact.

6.3.3. The Petitioner shall also prepare a structured training and certification plan covering system operations, market regulations, cyber security, SCADA/EMS, emergency restoration and renewable integration.

6.3.4. The Phase-I recruitment plan for 13 personnel is approved in principle. Further manpower addition shall be considered after review of the comprehensive manpower study and actual deployment.

7. Applicability of the Order

7.1.0. This Order shall come into effect from 1st April 2027.

7.1.1. The Petition of Meghalaya Electricity Power Transmission Company Limited (MePTCL) in Case No. 9 of 2026 stands disposed of accordingly.

Sd/-
Chandan Kumar Mondol,
Chairman