THE UTTAR PRADESH ELECTRICITY REGULATORY COMMISSION

LUCKNOW

Petition No. 2362/2026

QUORUM

Hon'ble Shri Arvind Kumar, Chairman

Hon'ble Shri Sanjay Kumar Singh, Member

Hon'ble Shri Griesh Kumar Vaish, Member (Law)

IN THE MATTER OF

Approval for 05 Year State Rolling Transmission Plan for period of FY 2026-27 to FY 2030-31 before Uttar Pradesh Electricity Regulatory Commission.

AND

IN THE MATTER OF

Uttar Pradesh Power Transmission Corporation Ltd. in the capacity of State Transmission Utility

Managing Director, 7th Floor Shakti Bhawan, 14-Ashok Marg, Lucknow, Uttar Pradesh, Pin-226001

..... Petitioner

THE FOLLOWING WERE PRESENT

1. Sh. Satyendra Kumar, CE (Planning), UPPTCL
2. Sh. Kapil Kumar, EE, UPPTCL
3. Sh. Saurabh Yadav, AE, UPPTCL
4. Sh. Sujeet Kumar, AE, UPPTCL

ORDER

(DATE OF HEARING: 21.07.2026)

1. The instant Petition is filed by Uttar Pradesh Power Transmission Corporation Ltd. (UPPTCL) in the capacity of State Transmission Utility (STU) for approval of Five-Year STU Transmission Plan for period of FY 2026-27 to FY 2030-31 in terms of Regulation 5.1 of UPERC (Modalities of Tariff Determination) Regulations, 2023. The prayers of the Petitioner are as following:

   (a) Approve the 05 Year STU Rolling Transmission Plan for the period FY 2026-27 to FY 2030-31.

   (b) Allow the Petitioner to add/change/alter/modify this application at a future date.

   (c) Issue any other relief, order or direction which the Commission may deem fit.

Submission of Petitioner

2. The Petitioner submitted that 05 Year STU Transmission Plan for FY 2024-25 to FY 2028-29 (Petition No. 2037 of 2023), which was approved by Commission in its Order dated 27.03.2024 and 05 Year STU Transmission Plan FY 2025-26 to FY 2029-30 (Petition No. 2200 of 2025), which was approved by Commission in its Order dated 28.10.2025.

3. As per Regulation 5.1 of UPERC (Modalities of Tariff Determination) Regulations 2023, STU has to prepare Five-Year STU Transmission Plan of the State for approval of the Commission by 28th February on the rolling basis every year.

Transmission Plan Background

4. The STU has submitted that the overall installed generating capacity in the State as on 28th Feb 2026 is 36,787.83 MW out of which thermal consist of 69% and renewable energy source (RES) consists of 17%.

5. Further, a total of 11,670 MW of thermal and PSP capacities are expected to be commissioned within the State from FY 2026-27 to FY 2030-31. The Petitioner has submitted that projects such as Obra-D (2×800 MW), Anpara-E (2×800 MW), Meja Extension (3×660 MW), Mirzapur Thermal

Energy (U.P.) Pvt. Ltd. TPS (2×800 MW), Adani Saur Urja (KA) Ltd. PSP (1,250 MW) and JSW Neo Energy Pvt. Ltd. Robertsganj PSP (1,500 MW) are proposed for commissioning during the plan period and are expected to achieve COD by FY 2029-30. The Petitioner has further submitted that while Obra-D and Anpara-E Thermal Power Projects are presently awaiting coal linkage, the detailed transmission system for evacuation of power from these projects is under planning and is yet to be finalized in consultation with CEA and MNRE. Accordingly, tentative locations of the proposed substations have been indicated in the present Transmission Plan.

6. Whereas, for Renewable Energy Source, Bulk solar parks of 3,200 MW, which are approved by MNRE, and distributed solar generating plants of 1,400 MW are to be established in Bundelkhand region. In order to facilitate power transfer from 4,000 MW Renewable generation projects coming up in the state of Uttar Pradesh, in revised Green Energy Corridor (GEC-II) Plan total of 21 number of Substations and their associated lines have been planned in two phases and the work of construction of transmission network is in progress.

7. The key performance parameters of STU for FY 2025-26 such as;

   (a) Actual wheeled Energy from Transmission Network is 1,57,884 MUs,

   (b) Transmission Loss has increased up to 3.22%,

   (c) Transmission System Availability has reached 98.38 % (Normative is 98%),

   (d) Successfully met the continuously increasing peak electricity demand in the State from 16,110 MW in FY 2016-17 to 30,618 MW in FY 2024-25, and further to 31,486 MW in FY 2025-26.

Transmission Planning Methodology

8. The STU has submitted that the Transmission Plan has been prepared by assessing the short-term and long-term demand forecast of different regions based on the nature and growth of load. The planning exercise also takes into consideration any new addition of conventional and Renewable Energy Sources (RES) generation capacity in the State.

9. The Transmission Network is planned after taking into account various factors such as area/location for capacity addition, improvement of voltage profile, network upgradation and other system requirements.

10. Further, efforts are made to explore the possibility of planning new substations instead of adding transformer capacity at existing substations when the capacity of such substations reaches the maximum permissible limit as prescribed under the Manual on Transmission Planning Criteria. Such planning is also carried out considering N-1 contingency conditions so that system parameters such as voltage, loading and frequency remain within permissible limits.

11. Augmentation of the transmission system is planned by considering factors such as rate of load growth, operational constraints and feedback received from drawing entities.

12. The STU has submitted that Transmission Network System Studies are undertaken for operation of the system under existing conditions as well as for its improvement and future expansion. Such studies help identify low-voltage pockets and the requirement of reactive power compensation, while also indicating voltage profile and transmission losses within the system. The studies further assist in determining the EHV network required for evacuation of power from generating stations and the strengthening of transmission lines necessary for maintaining grid stability. These studies are carried out using software tools such as PSSE and MI Power by conducting load flow studies, short circuit studies and other related analyses.

    a) **Load Flow Study:** This study analyses the steady-state condition of the power system network. It helps in determining the operating state of the system for a given load-generation balance, assesses loading on transmission elements and supports planning and operation of the power system from a steady-state perspective.

    b) **Short Circuit Study:** This study is carried out for determining appropriate circuit breaker ratings and designing an adequate protection scheme for the electrical power system based on the prevailing fault levels.

Peak Power Demand Projections

13. The actual peak demand includes NPCL from the period FY 2020-21 to FY 2025-26 has been tabulated below:

Table 1: Actual Recorded Peak Power Demand Trend from FY 2020-21 to FY 2025-26

Peak Power Demand (MW) projection for FY 2026-27 to 2030-31 with CAGR of 6%						
Particulars	**FY 2020-21**	**FY 2021-22**	**FY 2022-23**	**FY 2023-24**	**FY 2024-25**	**FY 2025-26**
Peak Power Demand (MW)	23,917	25,117	27,369	29,043	31,503	32,002

14. The STU has submitted that the upcoming projects and anticipated demand from Integrated Manufacturing & Logistics Cluster (IMLC), Awas Vikas and Lucknow Development Authority (LDA) are also taken into consideration while carrying out demand assessment and transmission planning. Accordingly, the projected peak demand (MW) for the period from FY 2026-27 to FY 2030-31 has been estimated and is tabulated below:

Table 2: Projected Electricity Demand for FY 2026-27 to FY 2030-31

FY	**2025-26**	**2026-27**	**2027-28**	**2028-29**	**2029-30**	**2030-31**
Peak Power Demand (MW) of UP Discoms	32,002*	33,921	35,955	38,112	40,397	42,820
Power Demand (MW) of IMLC & Awas Vikas LDA#	0	0	389	1,809	661	427
Peak Power Demand (MW)	32,002	33,921	36,344	39,921	41,058	43,247

**Actual peak demand met for FY 2025-26 is 31,486 MW as on 11.06.2025 # IMLC- Integrated Manufacturing & Logistics Culture.*

Network Summary

15. STU has submitted the existing network summary up to July-2026. The details are as per table below:

Table 3: Existing Network Summary up to July-2026

Voltage Level (kV)	**Project**	**132 kV**	**220 kV**	**400 kV**	**765 kV**	**Total**
No. of Substations (Nos.)	UPPTCL	492	178	32	2	**704**
	SEUPPTCL	0	1	2	1	**4**
	WUPPTCL	0	0	5	2	**7**
	GTL	0	0	0	0	**0**
	PGJFTL	0	0	1	0	**1**
	OCBTL	0	0	1	0	**1**
	PGRSTL	0	0	1	1	**2**

Voltage Level (kV)	Project	132 kV	220 kV	400 kV	765 kV	Total
	PGMSTL	0	0	1	1	**2**
	PGGYTL	0	0	1	0	**1**
	MSPTL	0	0	0	0	**0**
	TTL	0	0	0	0	**0**
	JKPTL	0	0	1	0	**1**
	JTL	0	0	0	0	**0**
	Total	**492**	**179**	**45**	**7**	**723**
Transformation Capacity (MVA)	UPPTCL	72,094	67,080	31,130	6,000	**1,76,304**
	SEUPPTCL	0	200	1,890	2,000	**4,090**
	WUPPTCL	0	560	5,860	6,000	**12,420**
	GTL	0	0	0	0	**0**
	PGJFTL	0	320	1,000	0	**1,320**
	OCBTL	0	320	630	0	**950**
	PGRSTL	0	320	2,000	3,000	**5,320**
	PGMSTL	0	400	2,000	3,000	**5,400**
	PGGYTL	0	400	1,000	0	**1,400**
	MSPTL	0	0	0	0	**0**
	TTL	0	0	0	0	**0**
	JKPTL	0	0	1,000	0	**1,000**
	JTL	0	0	0	0	**0**
	Total	**72,094**	**69,600**	**46,510**	**20,000**	**2,08,204**
Transmission Lines (Ckt. Km)	UPPTCL	29,945.11	17,421.78	7,792.92	1,511.18	**56,670.98**
	SEUPPTCL	0	0	657.1	952	**1,609.10**
	WUPPTCL	0	0	506	650	**1,156.00**
	GTL	0	0	98	1,028.00	**1,126.00**
	PGJFTL	105.35	21.68	166.82	22.8	**316.65**
	OCBTL	41	38	502	18	**599**
	PGRSTL	0	0	148.78	0	**148.78**
	PGMSTL	0	0	199.64	61	**260.64**
	PGGYTL	0	0	120	347.32	**467.32**
	MSPTL	0	0	0	0	**0**
	TTL	0	0	23.38	0	**23.38**
	JKPTL	0	4	4	0	**8**
	JTL	0	0	0	0	**0**
	Total	**30,091.46**	**17,485.46**	**10,218.64**	**4,590.30**	**62,385.85**
PPP	No of S/s	0	1	13	5	**19**
	MVA	0	2,520	15,380	14,000	**31,900**

Voltage Level (kV)	Project	132 kV	220 kV	400 kV	765 kV	Total
	CktKM	146.35	63.68	2,425.73	3,079.12	**5,714.88**

16. STU has further submitted that to cater the upcoming power demand and generation capacity in the State, it has planned the addition of 137 new substations with an aggregate transformation capacity of 75,729 MVA, along with laying of 13,649 Ckt. Km of transmission lines by FY 2030-31. The year-on-year and cumulative planned transmission network additions for the period FY 2026-27 to FY 2030-31 are summarised in the table below:

Table 4: Year on Year Summary of Transmission network for 5 year Transmission Plan (FY 2026-27 to FY 2030-31)

Voltage (kV)	2026-27	2027-28	2028-29	2029-30	2030-31	Total
132	7	25	1	9	6	48
220	8	14	23	11	8	64
400	2	2	4	9	4	21
765	1	0	0	3	0	4
Total	**18**	**41**	**28**	**32**	**18**	**137**

17. The STU has submitted that the summary of the planned transmission network for the period FY 2026-27 to FY 2030-31 has been prepared and tabulated below. List of planned transmission network is annexed in Annexure-1. The summary provides voltage-wise details of substations, transformation capacity and transmission line length, along with the year-wise additions and cumulative transmission network planned during the control period.

Table 5: Summary of Cumulative Transmission Network up to FY 2030-31

FY	Particulars	132 kV	220 kV	400 kV	765 kV	Total YoY	Cumulative Network
2025-26	No. of Substation	11	10	5	0	26	713
	Capacity (MVA)	1,781	3,000	5,185	0	9,966	2,05,257
	Line Length (Ckt. Km)	659.73	822.12	33.70	575.00	2,090.55	62,080
2026-27	No. of Substation	7	8	2	1	18	731
	Capacity (MVA)	8,851	6,360	6,130	1,500	22,841	2,28,098
	Line Length (Ckt. Km)	1,957.29	960.28	760.40	37.00	3,714.91	65,795
2027-28	No. of Substation	25	14	2	0	41	772
	Capacity (MVA)	5,677	6,540	2,760	0	14,977	2,43,075

FY	Particulars	132 kV	220 kV	400 kV	765 kV	Total YoY	Cumulative Network
	Line Length (Ckt. Km)	1,984.86	1,305.33	380.00	0.00	3,670.19	69,465
2028-29	No. of Substation	1	23	4	0	28	800
	Capacity (MVA)	2,027	8,400	4,315	0	14,742	2,57,817
	Line Length (Ckt. Km)	120.00	1,099.00	234.00	0.00	1,453.00	70,918
2029-30	No. of Substation	9	11	9	3	32	832
	Capacity (MVA)	3,244	5,520	9,000	12,000	29,764	2,87,581
	Line Length (Ckt. Km)	303.00	1,047.00	1,466.00	737.00	3,553.00	74,471
2030-31	No. of Substation	6	8	4	0	18	850
	Capacity (MVA)	1,086	2,740	4,000	0	7,826	2,95,407
	Line Length (Ckt. Km)	198.00	650.00	410.00	0.00	1,258.00	75,729

18. Glossary of Planned Transmission Network till FY 2030-31 is tabulated below:

Table 6: Details of Planned Transmission Network up to FY 2030-31

Network Plan	Substation (No.)	Capacity (MVA)	Line Length (Ckt. Km)	Projected Peak Demand (MW)
Network up-to March, 2026	713	2,05,257	62,080	32,002
Network up-to March, 2031	850	2,95,407	75,729	44,247
Net Addition during the plan	**137**	90,150	13,649	-

**Actual peak demand for FY 2025-26 is 32,673 MW as on 24.06.2026*

19. STU has submitted that the implementation of planned new substations and capacity augmentation works shall be dependent upon the actual load growth in the coming years. It has been stated that the Transmission Plan may undergo changes based on factors such as prevailing regional load demand, availability of land for new substations, technical feasibility and space availability for augmentation at existing substations, outcomes of load flow studies, Right of Way (RoW) constraints, and other related considerations. Any modifications necessitated due to such constraints shall be incorporated in the subsequent Transmission Plans to be submitted to the Commission on a rolling basis.

20. STU has further submitted that the Commission may permit the undertaking of transmission schemes that require immediate implementation in the following circumstances: (a) to fulfil the specific

requirements of open access customers or deposit works; (b) for projects of strategic importance, technical upgradation, or other similar requirements; and (c) for works necessitated to address urgent situations. It has been requested that such schemes may be allowed with prior intimation to the Commission, subject to its final approval.

TBCB Schemes

21. The STU has submitted that, in accordance with the directions of the Commission, all new greenfield substations of 220 kV and above voltage level are to be implemented through the Tariff Based Competitive Bidding (TBCB) route. It has further submitted that any proposal seeking exemption from TBCB shall be placed before the Commission for approval on a case-to-case basis, or in accordance with such guidelines as may be issued by the Commission from time to time. The STU has planned a total of 33 projects under the TBCB mode during the period FY 2026-27 to FY 2030-31, comprising 21 projects at 220 kV, 11 projects at 400 kV, and 1 project at 765 kV voltage level. List of planned projects is annexed in Annexure-2.

22. The STU has further submitted that, as per Regulation 7.2 of the UPERC (Modalities of Tariff Determination) Regulations, 2023, augmentation and strengthening works (excluding O&M works) at the intra-State transmission substations and/or lines shall be carried out by the respective developer, with the prior approval of the Commission to be obtained by the STU on a case-to-case basis.

Deposit Schemes

23. With respect to deposit schemes, STU has submitted that UPPTCL, in its Petition No. 1995/2023, had requested the Commission to exempt the requirement of obtaining prior approval for schemes related to deposit work as UPPTCL does not make any investment in such works and all related expenses are borne entirely by the users/ consumers.

The Commission, vide its Order dated 30.08.2023, has relaxed the requirement of prior approval for deposit work schemes. The relevant extract is reproduced below:

"Commission's view

The Commission has considered the submission of the Petitioner seeking relaxation for prior approval of deposit schemes. In this regard, the relevant extract of the UPERC (Modalities of Tariff Determination) Regulations, 2023 is reproduced below:

".....Provided that following new Greenfield intra-State transmission projects, being part of the STU Transmission Plan, shall be covered under RTM framework (under Section 62 of the Act) subject to prior approval of the Commission:

.....

(d) Deposit works, whose funds are accounted for under consumer contribution;

....."

From above, it is observed that Regulation 6.1 of UPERC (Modalities of Tariff Determination) Regulations, 2023 requires UPPTCL to seek prior approval of the Commission for deposit schemes. However, the Commission is of view that since deposit work schemes are to be implemented as and when required by the consumer/user for which there is no prior information to UPPTCL and that the cost of such schemes are not passed on in ARR/ tariff as all the works are carried out at the expenses of particular users/consumers therefore the Commission in exercise of its powers conferred under Regulations 9 of UPERC (Modalities of Tariff Determination) Regulations, 2023 has relaxed the requirement of prior approval of the Commission for deposit work schemes. However, UPPTCL is directed to continue to intimate about the deposit works schemes on a quarterly basis."

Capital Expenditure Estimation for Transmission Projects (FY 2026-27 to FY 2030-31)

24. The STU has submitted that the estimated capital expenditure (Capex) for the construction of new substations and associated transmission lines, as well as for augmentation and strengthening works, during the period FY 2026-27 to FY 2030-31, has been assessed based on the mode of implementation and the status of project approvals. The year-wise capital expenditure for transmission works is summarised in the table below:

Table 7: The Capital expenditure for Transmission works - Scheme wise (FY 2026-27 to FY 2030-31)

Mode of Ex.	2026-27	2027-28	2028-29	2029-30	2030-31	Grand Total
RTM	2,965.46	3,962.04	1,544.53	5,330.26	1,311.22	15,113.51
TBCB	823.54	574.36	2,351.31	8,017.67	2,371.25	14,138.13
Deposit	1,475.40	1,481.66	1,285.69	1,371.68	454.60	6,069.03
RTM-GEC-II	2,579.17	619.90	-	-	-	3,199.07
Grand Total	**7,843.57**	**6,637.96**	**5,181.53**	**14,719.61**	**4,137.07**	**38,519.74**

Table 8: The Capital expenditure for Transmission works – Voltage wise (FY 2026-27 to FY 2030-31)

Voltage Level	RTM S/s		RTM Augmentation	Total RTM Estimated Cost	GEC-II	
	No. of S/s	Estimated Cost	Estimated Cost		No. of S/s	Estimated Cost
132 kV	25	1,556.83	2,858.25	4,415.08	0	0.00
220 kV	17	1,941.51	2,041.51	3,983.02	2	199.37
400 kV	6	3,812.79	363.67	4,176.46	2	1,546.67
765 kV	2	2,115.91	423.05	2,538.96	1	1,453.03
Grand Total	**50**	**9,427.03**	**5,686.48**	**15,113.52**	**5**	**3,199.07**

Table 9: Break up of 400 & 765 kV Schemes implemented in RTM Mode

Zone	Voltage (kV)	No. of S/s	Estimated Cost (in Cr.)
TC	400	400/220/132 kV 2×500+2×160 MVA GIS Sirsira, Raebareilly*	375.38
TC	400	Upgradation of 220 kV Bahraich to 400 kV 2×500 MVA Level	720.00
TSE	400	Upgradation of 220 kV Mirzapur to 400 kV 2×500 MVA Level	695.18
TSE	400	Upgradation of 220 kV Phoolpur to 400/220 kV 2×500 MVA Level	1,000.00
TSE	400	Upgradation of 220 kV Robertsganj to 400/220 kV 2×500 MVA Level	392.23
TW	400	Upgradation of 220 kV Knowledge Park to 400 kV 2×500 MVA Level	630.00
TNE	765	765/400 kV 2×1500 MVA Mirzapur (Pooling Point) #	1,315.91
TW	765	Upgradation of 400 kV Sector-148 to 765 kV 2×1500 Level	800.00

*Approved in TWC 12/45th,

#The Scheme has been approved by 8th TWC meeting of FY 2025-26 for Rs. 1,315.91 Cr. in RTM with Strategic point of view

Table 10: The Capital expenditure for TBCB & Deposit Transmission works – Voltage wise (FY 2026-27 to FY 2030-31)

Voltage Level	TBCB		Deposit	
	No. of S/s	Estimated Cost	No. of S/s	Estimated Cost
132 kV	0	0.00	23	1,815.57
220 kV	21	3,316.51	24	3,567.77
400 kV	11	7,269.74	2	685.69
765 kV	1	3,551.89	0	0.00
Grand Total	**33**	**14,138.13**	**49**	**6,069.03**

Scrutiny of the Petition and Clarifications Sought

25. As per Regulation 5.1 of the UPERC "Modalities of Tariff Determination Regulations, 2023", the STU is required to prepare the 05-year

Transmission Plan of the State and submit the same for approval of the Commission by 28th February on a rolling basis every year. Accordingly, the Petitioner was required to file the STU Transmission Plan by 28.02.2026. However, vide letter dated 24.02.2026, the Petitioner requested the Commission for extension of 15 days, i.e., up to 15.03.2026, and subsequently filed the Petition on 17.03.2026.

26. The Commission, after scrutinizing the Petition, observed certain deficiencies and data gaps, which were communicated to the Petitioner (UPPTCL) vide letter dated May 20, 2026.

27. In response, STU, through its subsequent submission dated May 29, 2026, provided clarifications and additional information addressing the queries raised by the Commission. The queries raised by the Commission and the corresponding responses submitted by the Petitioner are detailed below:

Query No.1: The Petitioner was directed to provide a comparison of item-wise transmission network growth proposed in the current rolling plan (FY 2026-27 to FY 2030-31) with that approved in the previous plan (FY 2025-26 to FY 2029-30).

Response submitted by Petitioner:

The Petitioner has submitted the comparison of item-wise transmission network growth proposed in the current rolling plan (FY 2026-27 to FY 2030-31) with that approved in the previous plan (FY 2025-26 to FY 2029-30). The brief summary has been tabulated below-

Table 11: Proposed item-wise Transmission Network Growth (FY 2026-27 to FY 2030-31)

FY	Particulars	Unit	As per RTP FY 2025-30	As per RTP FY 2026-31
2025-26	No. of Substation	Number	30	26
	Capacity	MVA	22,376	9,966
	Line Length	Ckt. Km.	4,553	2,090.55
2026-27	No. of Substation	Number	22	18
	Capacity	MVA	12,834	22,841
	Line Length	Ckt. Km.	3,361	3,714.91
2027-28	No. of Substation	Number	23	41
	Capacity	MVA	10,457	14,977
	Line Length	Ckt. Km.	1,273	3,670.19

FY	Particulars	Unit	As per RTP FY 2025-30	As per RTP FY 2026-31
2028-29	No. of Substation	Number	19	28
	Capacity	MVA	18,161	14,742
	Line Length	Ckt. Km.	2,651	1,453.00
2029-30	No. of Substation	Number	24	32
	Capacity	MVA	10,367	29,764
	Line Length	Ckt. Km.	1,390	3,553.00
2030-31	No. of Substation	Number	-	18
	Capacity	MVA	-	7,826
	Line Length	Ckt. Km.	-	1,258.00

Commission's Observation:

The Commission notes that the Petitioner has submitted a comparison of the item-wise transmission network growth proposed under the previous rolling plan (FY 2025-26 to FY 2029-30) and the current rolling plan (FY 2026-27 to FY 2030-31). The comparison indicates changes in the scope, scale and phasing of transmission works across the planning horizon.

The Commission observes that while the previous rolling plan envisaged establishment of 118 substations, 74,195 MVA of transformation capacity and 13,228 Ckt. Km. of transmission lines, the current rolling plan proposes 163 substations, 1,00,116 MVA of transformation capacity and 15,739.65 Ckt. Km. of transmission lines. This reflects an increase of 45 substations, 25,921 MVA of transformation capacity and 2,511.65 Ckt. Km. of transmission lines over the planning horizon.

The Commission further observes that the variations are attributable to the addition of new schemes, re-phasing of certain projects and rollover of some transmission works to subsequent years based on updated demand projections, generation additions and system requirements. The Commission is of the view that while periodic revision of the rolling plan is necessary to address evolving system requirements, deferment and rollover of projects should be minimized to ensure timely augmentation of the State transmission network.

Therefore, the Petitioner is directed to closely monitor the progress of the planned schemes, avoid undue delays in implementation, and ensure that

the proposed substations, transformation capacity additions and transmission lines are executed within the stipulated timelines so that the transmission system remains adequate, reliable and commensurate with the projected growth in demand and generation.

Query No.2: The Petitioner was directed to provide a bifurcation of the 220/132 kV and 220/33 kV transmission network along with trend analysis of network growth as well as transmission capacity at T-D point.

Response submitted by Petitioner: The Petitioner has submitted the bifurcation of 33kV voltage level and 220/132 kV, 400/220 kV & 765/ 400 kV transmission network along with trend analysis of network growth as well as transmission capacity at T-D point.

Table 12: Year Wise Growth Trends of 33kV side, 220/132 kV, 400/200 kV & 765/400 kV Transmission Network

Voltage Ratio (KV)	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2029-30	CAGR
132/ 33	71,327	80,178	85,855	87,882	91,126	92,212	5.27%
220/ 33	5,420	6,260	6,560	6,680	6,740	6,920	5.01%
Total at 33kV Level	76,747	86,438	92,415	94,562	97,866	99,132	5.25%
220/ 132	65,020	70,540	76,140	84,420	89,880	92,440	7.29%
400/ 220	45,190	51,320	54,080	58,395	67,395	71,395	9.58%
765/ 400	20,000	21,500	21,500	21,500	33,500	33,500	10.87%

The total transmission capacity at T-D point is 99,132 MVA.

Commission's Observation:

The Commission observes that the Petitioner has furnished the bifurcation of the 220/132 kV, 220/33 kV and 132/33 kV transmission network along with the projected growth in transformation capacity at various voltage levels and the transmission capacity available at the T-D interface during the control period.

The Commission notes that the transformation capacity at the 132/33 kV level is projected to increase from 71,327 MVA in FY 2025-26 to 92,212 MVA in FY 2030-31, with a CAGR of 5.27%, while the 220/33 kV transformation capacity is projected to increase from 5,420 MVA to 6,920 MVA during the same period, with a CAGR of 5.01%. Consequently, the total transformation capacity available at the 33 kV level is expected to increase from 76,747 MVA to 99,132 MVA, reflecting a CAGR of 5.25%.

The Commission further notes that the 220/132 kV transformation capacity is projected to increase from 65,020 MVA to 92,440 MVA, registering a CAGR of 7.29%. Similarly, the 400/220 kV transformation capacity is projected to increase from 45,190 MVA to 71,395 MVA, reflecting a CAGR of 9.58%, whereas the 765/400 kV transformation capacity is projected to increase from 20,000 MVA to 33,500 MVA, corresponding to the highest CAGR of 10.87% during the control period.

The Commission observes that the planned capacity augmentation is relatively higher at the EHV levels of 765/400 kV and 400/220 kV, followed by the 220/132 kV level, indicating significant strengthening of the upstream transmission network. While the transformation capacity at the 33 kV level is also projected to increase, the growth rate at the downstream interface remains comparatively lower than that envisaged at higher voltage levels. Accordingly, adequate development of the downstream network and distribution interface infrastructure would be necessary to ensure effective utilization of the enhanced upstream capacity and to avoid bottlenecks at the T-D interface.

Therefore, the Petitioner shall continue to monitor transformation capacity utilization and network loading at various voltage levels and ensure timely augmentation of both transmission and downstream network infrastructure so that the benefits of the proposed capacity additions are effectively realized.

Query No.3: The Petitioner was directed to provide the details of transformers and transmission lines operating at 75% or higher load during peak periods in FY 2025-26, along with the proposal with timeline for mitigating the same. The Petitioner was further directed to provide the status of mitigation measures undertaken in respect of transformers and transmission lines that were operating at 75% or higher loading during FY 2024-25, in compliance with the Commission's Order dated 28.10.2025

Response submitted by Petitioner: The Petitioner has submitted the list of 9 ICTs/transformers of 04 substations and 09 lines (220 kV- 09) having reached nearly 75% as on 24.06.2026. The submission also includes a work plan and timelines for addressing the overloading of these ICTs & transmission elements, as shown in the table below:

Table 13: Details of ICTs/Transformers of FY 2025-26 (as on 24.06.2026 Load – 32,609 MW) with 75% and Above Loading

Name of Substation	Transmission Capacity (MVA)	Total Capacity	In Percentage (%)	N-1 Capacity (MW)	Total Actual Load (MW)	Remark / Expected Energisation
400 KV Shamli	1×500	500	77	—	384	Additional 2nd 500 MVA TF; Expected Energisation: Sept. 2026
400 KV Bareilly	2×315+1×500	1130	78	838	879	Replacement of 315 MVA to 500 MVA TF; Expected Energisation: July, 2027
400 KV Sultanpur	3×315	945	83	690	783	Replacement of 240 MVA (Damaged) to 500 MVA TF; Expected Energisation: July, 2028
400 KV Rewa Road	2×315	630	77	525	486	Additional 3rd 500 MVA TF; Expected Energisation: Dec. 2028

Table 14: Details of Transmission lines of FY 2025-26 (as on 24.06.2026 Load – 32,609 MW) with 75% and Above Loading

Name of Transmission Line	Loading in MW	Total Capacity (in %)	Mitigation Plan	Expected Date of Completion
220 KV Raebarieli–PG–Unchahari-1	239	96	Construction of 400/220/132 kV S/S Raebareli	Dec -2027
220 KV Raebarieli–PG–Unchahari-2	243	97	Construction of 400/220/132 kV S/S Raebareli	Dec -2027
220 KV Bachhrawan–Raebareli	216	86	315 MVA 3rd TF at Jaunpur	June -2027
220 KV Allahabad (PG)–Jhusi	200	80	Shifting of 220 kV Feeder from 220 kV Old Sahupuri to New 400 kV Sahupuri	Oct -2026
220 KV Sahupuri(400)–Sahupuri-1	204	82	Shifting of 220 kV Feeder from 220 kV Old Sahupuri to New 400 kV Sahupuri	Oct -2026
220 KV Sahupuri(400)–Sahupuri-II	198	79	Construction of 220 kV Meenut (PG)–Nelhaur	March -2027
220 KV Meenut (PG)–Nelhaur	190	76	Construction of 220 kV Meenut (PG)–Aamroha Line in progress	March -2027
220 KV Indirapurm–Sahibabad	213	85	220/33 Vasundhra S/S Under Construction	Dec -2026
220 KV Mathura(400)–Chhata	192	77	Lilo of 220 kV Chhata–Vrindavan line at 400/220 kV Manth S/S.	Dec -2026

Also, the Petitioner has submitted the updated status of mitigation measures undertaken in respect of transformers and transmission lines that were operating at 75% or higher loading during FY 2024-25, in compliance with the Commission's Order dated 28.10.2025, as shown in the table below:

Table 15: Status of ICTs/Transformers of FY 2024-25 with 75% and Above Loading

Sr. No.	Name of Substation	Transmission Capacity	ICT-I	ICT-II	ICT-III	Remark	Current Status
1	Allahabad PG	3×315	256	256	242	Additional 500 MVA ICT to be installed in Sept, 2025	Current loading (24.04.2026): Transformer loading 172 MVA, 169 MVA & 161 MVA. Loading reduced to 53%.
2	GRKPR 400 kV	500+315	391	249	0	Additional 500 MVA ICT charged in June 2024 against damage of 240 MVA T/F	Current loading (24.04.2026): Transformer loading 297 MVA, 275 MVA & 189 MVA. Loading reduced to 58%.
3	Sikandrabad	2×100+1×160	84	84	129	2nd 160 MVA ICT in place of 100 MVA ICT under implementation and to be charged in Dec, 2025	Current loading (24.04.2026): 50 MVA, 49 MVA & 80 MVA. IInd 160 MVA ICT expected to be commissioned on 15.09.2026.
4	Unnao 400 kV	3×160	122	121	133	To reduce loading of Unnao 400 kV, upgradation of 132 kV Kundan Road is required and additional 160 MVA T/F at 220 kV Dahi Chowki to overcome loading	Current loading (24.04.2026): 110 MVA, 113 MVA & 121 MVA. Upgradation of Kundan Road planned in FY 2027-28.
5	Harduaganj	1×100+1×160	0	105	-	2nd 160 MVA ICT in place of defective 100 MVA ICT under implementation and to be charged in June, 2025	Current loading (24.04.2026): 65 MVA and 81 MVA. 2nd Transformer energised on 16.10.2025.
6	Hardoi Road	2×200	141	152	-	Additional 160 MVA ICT installed in January, 2025	Current loading (24.04.2026): 105 MVA, 114 MVA and 110 MVA. Loading reduced to 59%.

Table 16: Status of Transmission lines of FY 2024-25 with 75% and Above Loading

Sr. No.	Transmission Line	Loading (MW)	Remark	Current Status
1	400 kV Anpara-Obra	605	Short line can be kept open like 400 kV Anpara-Singrauli line	Power flow reduced to 155 MW after installation of

Sr. No.	Transmission Line	Loading (MW)	Remark	Current Status
			and power can evacuate at 765 kV level.	2×1000 MVA ICT at 765/400 kV Obra C/S.
2	220 kV Allahabad (PG)-Jhusi	231	LILO of 220 kV Phoolpur-Jhusi line at Jaunpur (400) is completed. Power flow restricted on this line due to non-availability of 400/220 kV T/F; only one 315 MVA T/F is energised while second 315 MVA T/F was energised in Jan 2026 against approved capacity of 3×315 MVA.	Power flow reduced to 155 MW, recorded against system peak load of 31,820 MW at 24.05.2026, due to LILO of 220 kV Phoolpur-Jhusi line at 400 kV Jaunpur S/S.
3	220 kV Azamgarh-Jaunpur	198	400 kV Jaunpur energised (overloading reduced after installation of 3rd T/F at 400/200 kV Jaunpur).	3rd transformer is expected to be energised in Dec 2026.
4	220 V Bachhrawan-Raibareilly	197	After construction of 400 kV Raibareilly substation expected in Sept 2026, overloading will reduce.	400 kV Raibareilly is expected to be energised in FY 2027-28.
5	220 kV Phoolpur-Allahabad PG	203	LILO of 220 kV Phoolpur-Jhusi line at Jaunpur (400) is completed. Power flow restricted on this line due to non-availability of 400/220 kV T/F; only one 315 MVA T/F is energised while second 315 MVA T/F was energised in Jan 2026 against approved capacity of 3×315 MVA.	Power flow reduced to 67 MW, recorded against system peak load of 31,820 MW at 24.05.2026 in FY 2026-27 with LILO of 220 kV Phoolpur-Jhusi line at 400 kV Jaunpur S/S.

Commission's Observation:

The Commission notes that the Petitioner has submitted the details of overloaded ICTs/transformers and transmission lines along with the mitigation plan and timelines for relieving the loading of transmission elements operating at or near 75% loading during FY 2025-26. The Commission further notes that mitigation measures such as installation of additional ICTs, replacement of existing transformers with higher capacity units and network reconfiguration have been proposed for addressing the loading of these transmission elements.

The Commission also notes that the Petitioner has submitted the updated status of mitigation measures undertaken in respect of the ICTs/transformers and transmission lines which were operating at 75% or higher loading during FY 2024-25. The status submitted indicates that loading has reduced in several cases following commissioning of additional transformation capacity and associated transmission works, while certain

mitigation measures are still under implementation and are expected to be completed in the ensuing years.

The Commission is of the view that timely implementation of the proposed augmentation and strengthening works is essential for maintaining reliability of the transmission system and avoiding overloading during peak demand conditions. Therefore, the Petitioner shall adhere to the proposed timelines and closely monitor the progress of the mitigation measures.

Query No.4: As per UPEGC, STU had to carry out planning studies for reactive power compensation of Intra-State transmission system including reactive power requirement at the SSGS's switchyard, therefore, the Petitioner is required to submit estimation of reactive power for period from FY 2026-27 to FY 2030-31 and STU's work plan/timelines/study for meeting the same.

Further, vide Commission's Order dated 28.10.2025, STU was directed to submit an annual progress update on the implementation of reactive power compensation. Hence, the Petitioner was required to submit the progress updates for the same.

Response submitted by Petitioner: The Petitioner has submitted that, in accordance with the regulatory mandates and Grid Code requirements specified by the Commission, comprehensive reactive power planning studies have been undertaken. The Petitioner has further submitted that the studies evaluate the performance of the transmission network under peak demand as well as extreme light-load conditions up to the horizon year FY 2030-31.

The Petitioner submitted that under peak demand scenarios, widespread under-voltage conditions may adversely impact grid stability. In this regard, the study has identified a time-phased roadmap for deployment of the requisite capacitive compensation across the 132 kV and 33 kV voltage levels to improve the voltage profile, minimize technical losses (I^2R losses), and avert the risk of voltage collapse. The Petitioner further submitted that the study has also assessed the reactive absorption requirement at the 400 kV and 765 kV voltage levels to mitigate the high-voltage conditions observed during off-peak periods due to under-loaded

transmission lines and to ensure reliable and secure grid operation. The requirements of reactors are attached as per Annexure-3.

Commission's Observation:

The Commission notes that the Petitioner has undertaken reactive power planning studies for the intra-State transmission system considering both peak demand and light-load conditions up to FY 2030-31. The Petitioner has proposed installation of 610 MVAr shunt capacitors at the 33 kV level and 520 MVAr shunt capacitors at the 132 kV level, aggregating to 1,130 MVAr of capacitive compensation for improvement of voltage profile under peak load conditions. Further, the Petitioner has proposed installation of 1,831 MVAr of reactors at 400 kV and 765 kV voltage levels to mitigate over-voltage conditions during light-load periods.

The Commission is of the view that timely implementation of the proposed reactive power compensation schemes is essential for maintaining voltage profile within permissible limits and ensuring secure operation of the State transmission network. Therefore, the STU/UPPTCL shall adhere to the proposed implementation timelines and submit annual progress updates on the status of reactive power compensation works.

Query No.5: The Petitioner was required to submit a comprehensive analysis, including calculations, of the theoretical transmission losses within the system.

Also, the Petitioner was directed to submit the outcomes of a detailed study of impact of transmission losses for the control period considering 220kV and above transmission system to be developed through TBCB by other transmission licensees. The same was directed to UPPTCL vide Order dated. 28.10.2025.

Response submitted by Petitioner: The Petitioner has submitted the theoretical transmission losses within the system for FY 2026-27 to FY 2030-31 as table below:

Table 17: Summary Table: Transmission losses Projection within the system

S. No.	FY	Transmission Losses (%)
1.	2026-27	3.01
2.	2027-28	3.58
3.	2028-29	3.23

S. No.	FY	Transmission Losses (%)
4.	2029-30	2.99
5.	2030-31	3.09

The Petitioner has also submitted that a detailed study of the impact of transmission losses for the Control Period, considering the 220 kV and above transmission system proposed to be developed through TBCB by other transmission licensees, has been carried out. The Petitioner submitted the following key assumptions considered for the study:

Key Assumptions:

i. Planned TBCB network elements of the respective financial years during FY 2026-27 to FY 2030-31 have been considered for the study.

ii. While considering transmission loss computation for the Nth year, it has been assumed that network growth up to the (N-1)th year is completed, including TBCB elements as per the Rolling Transmission Plan submitted for FY 2026-27 to FY 2030-31.

iii. Demand has been considered as submitted in the Petition and energy growth has been assumed at 5% year-on-year over 1,58,609 MU, as approved by the Commission in the True-up of FY 2024-25.

Table 18: Summary Table: Transmission losses Projection of the system of TBCB Elements

Sr. No.	Financial Year	Peak Demand	Total Loss with TBCB Elements planned for the financial year (%)	Total Loss without TBCB Elements planned for the financial year (%)	Impact of TBCB Elements on Transmission Loss
1.	FY 2026-27	33,921	3.01%	3.07%	0.06%
2.	FY 2027-28	36,344	3.58%	3.59%	0.01%
3.	FY 2028-29	39,921	3.23%	3.27%	0.04%
4.	FY 2029-30	41,058	2.99%	3.09%	0.10%
5.	FY 2030-31	43,247	3.09%	3.13%	0.04%

Key Findings:

i. The impact of 220 kV and above network developed under TBCB mode on overall transmission loss over the period FY 2026-27 to FY

2030-31 works out to an average reduction of 0.05%. Accordingly, incorporation of the TBCB network results in reduction of transmission losses by 0.05% on an average.

ii. The impact on transmission loss is maximum in FY 2029-30 at 0.10% due to planning of a higher number of transmission elements under TBCB for FY 2029-30 as compared to the other years.

The Petitioner further submitted that the detailed year-wise summary of the study results has been enclosed as Annexure-4.

Commission's Observation:

The Commission notes that the Petitioner has submitted the projected transmission losses for FY 2026-27 to FY 2030-31 based on load flow studies and has also carried out a study regarding the impact of transmission systems developed through the TBCB route. The projected transmission losses are estimated at 3.01%, 3.58%, 3.23%, 2.99% and 3.09% for FY 2026-27 to FY 2030-31, respectively.

The Commission further notes that the projected transmission loss levels under the current rolling plan remain broadly in line with the loss levels considered in the previous STU Plan. The study submitted by the Petitioner indicates that incorporation of 220 kV and above transmission elements developed through TBCB results in reduction of transmission losses by 0.01% to 0.10%, with an average reduction of about 0.05% during FY 2026-27 to FY 2030-31.

The Commission is of the view that the impact of TBCB transmission elements on overall transmission losses is positive and contributes towards improvement in network efficiency. However, the year-wise variation in projected transmission losses, particularly the increase to 3.58% in FY 2027-28 despite continued network augmentation, requires careful examination by the Petitioner. Therefore, the Petitioner shall continue to monitor transmission loss levels and assess the impact of future network additions in subsequent filings.

Query No.6: The Petitioner was directed to submit the methodology adopted for forecasting the trend of peak power demand, along with supporting calculations. This submission should include a comparison with

the previous plan and a growth comparison between Uttar Pradesh and national figures. Additionally, the rationale underlying the year-on-year growth projections for the transmission network under the present petition should also be provided.

Response submitted by Petitioner: The Petitioner has submitted that the peak demand projected earlier for the period FY 2025-26 to FY 2029-30 was as under:

Table 19: Peak Demand Projections submitted for period FY 2025-26 to FY 2029-30

FY	2025-26	2026-27	2027-28	2028-29	2029-30
Projected Demand (MW)	34,434	37,533	40,535	43,778	47,280

The Petitioner has further submitted that the actual peak demand for FY 2025-26 was 31,486 MW recorded on 11.06.2025. The Petitioner has submitted that the earlier projections were based on the CAGR of the past 10 years, i.e., FY 2014-15 to FY 2024-25, which worked out to 9%, considering FY 2024-25 as the base year. However, the projected peak demand for FY 2025-26 was higher than the actual peak demand recorded during the year. Therefore, to align the projections with the recent trend of peak demand growth, the Petitioner has considered the CAGR of the past five years for projecting peak demand for the Rolling Plan period FY 2026-27 to FY 2030-31.

The Petitioner has submitted that the recorded peak power demand in Uttar Pradesh has shown a CAGR of 5.99%, increasing from 23,917 MW in FY 2020-21 to 32,002 MW in FY 2025-26, as detailed below:

Table 20: Historical Recorded Peak Demand in Uttar Pradesh (FY 2020-21 to FY 2025-26)

FY	2020-21	2021-22	2022-23	2023-24	2024-25	2024-25
Peak Power Demand (MW)	23,917	25,117	27,369	29,043	31,503	32,002

Accordingly, the Petitioner has submitted that, considering a CAGR of 5.99% and taking FY 2025-26 as the base year, the projected peak demand for FY 2026-27 to FY 2030-31 is as under:

Table 21: Projected Peak Demand under Current Rolling Plan (FY 2026-27 to FY 2030-31)

FY	2025-26	2026-27	2027-28	2028-29	2029-30	FY 2030-31
Projected Demand (MW)	32,002	33,921	35,955	38,112	40,397	42,820

The Petitioner has further submitted that the demand projections of Integrated Manufacturing & Logistics Cluster (IMLC), Awas Vikas and LDA have also been considered, as under:

Table 22: Additional Power Demand submitted by IMLC, Awas Vikas & LDA (FY 2026-27 to FY 2030-31)

FY	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31
Power Demand (MW) of IMLC, Awas Vikas, LDA	0	0	389	1,809	661	427

Based on the projected demand and the additional demand submitted by IMLC, Awas Vikas and LDA, the Petitioner has submitted that the total projected peak demand for FY 2026-27 to FY 2030-31 is as follows:

Table 23: Projected Electricity Demand for FY 2026-27 to FY 2030-31

FY	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31
Peak Power Demand (MW) of UP Discoms	32,002	33,921	35,955	38,112	40,397	42,820
Power Demand (MW) of IMLC & Awas Vikas LDA	0	0	389	1,809	661	427
Peak Power Demand (MW)	**32,002**	**33,921**	**36,344**	**39,921**	**41,058**	**43,247**

The Petitioner has also submitted a comparison of peak demand growth between Uttar Pradesh and All India, as under:

Table 24: Comparative Growth of Uttar Pradesh and All-India Peak Demand

FY	All India Peak Demand (MW)	All India YoY % Increase	U.P. Peak Demand (MW)	U.P. YoY % Increase	U.P. Contribution in All India Demand (%)
2021-22	2,03,014	-	24,795	-	12.21
2022-23	2,15,888	6.34	26,589	7.24	12.32
2023-24	2,21,370	2.54	28,284	6.37	12.78
2024-25	2,43,270	9.89	30,618	8.25	12.59
2025-26	2,45,400	0.88	31,486	2.83	12.83

Commission's Observation:

The Commission notes that the Petitioner has revised its demand forecasting methodology and has projected peak demand for FY 2026-27 to FY 2030-31 considering the CAGR of the last five years, as against the

earlier approach adopted in the previous rolling plan based on the CAGR of the last ten years. The Commission further notes that the projected peak demand for FY 2025-26 under the previous rolling plan was 34,434 MW, whereas the actual peak demand recorded during FY 2025-26 was 31,486 MW, indicating that the earlier projections were on the higher side.

The Commission also notes that the Petitioner has considered a CAGR of 5.99% based on the historical peak demand growth from FY 2020-21 to FY 2025-26 and has projected the peak demand to increase from 33,921 MW in FY 2026-27 to 43,247 MW in FY 2030-31, after considering the additional demand from IMLC, Awas Vikas and LDA. The comparison submitted by the Petitioner further indicates that the growth in peak demand in Uttar Pradesh remains broadly aligned with the national demand growth trend, with the State contributing around 12% to 13% of the All-India peak demand.

The Commission is of the view that demand projections should be based on realistic assumptions and periodically aligned with actual demand trends. The Petitioner shall continue to undertake detailed system studies and suitably review the demand projections in future rolling plans to ensure that the transmission network is developed in a prudent and optimal manner to meet the future demand requirements of the State.

Query No.7: The Petitioner was directed to provide the year-wise status of all projects currently under planning or proposal stage, which has not yet been approved by the Transmission Works Committee (TWC).

Response submitted by Petitioner: The Petitioner has initially submitted a list of transmission schemes, which are under various stages of planning, approval and implementation, while few schemes included in the previous rolling plan have been dropped for the reasons detailed therein in Annexure-5. In aforesaid Annexure, the Petitioner has furnished the details of each scheme, including the substation name, district-wise location, voltage level (kV), mode of execution, planned year of commissioning and current status. Later on, the Petitioner has further submitted that, subsequent to April 2026, certain schemes have now been approved by the Transmission Works Committee (TWC) during its meetings held in June 2026, July 2026 and August 2026, whereas the

remaining schemes are at different stages of planning, feasibility assessment, land finalization and approval process.

Table 25: Schemes included in Annexure-5 subsequently approved by TWC of June, July & August 2026

Sr. No.	Scheme Name	Approved in TWC Meeting/Month
1	Construction of 132/33 kV, 2x40 MVA UPEIDA (IMLC) AIS Substation at Jagdishpur, Amethi along with associated transmission line	1st TWC of FY 2026-27 (09.06.2026)
2	Construction of 132/33 kV, 2x40 MVA UPEIDA (IMLC) AIS Substation at Kaushiya Sarain, Hardoi along with associated transmission line	1st TWC of FY 2026-27 (09.06.2026)
3	Construction of 132/33 kV, 2x40 MVA UPEIDA (IMLC) AIS Substation at Shahjahanpur along with associated transmission line	1st TWC of FY 2026-27 (09.06.2026)
4	Construction of 132/33 kV, 2x40 MVA UPEIDA (IMLC) AIS Substation at Badaun along with associated transmission line	1st TWC of FY 2026-27 (09.06.2026)
5	Construction of 132/33 kV, 2x40 MVA UPEIDA (IMLC) AIS Substation at Mainpuri along with associated transmission line	1st TWC of FY 2026-27 (09.06.2026)
6	Construction of 132/33 kV, 1x63+1x40 MVA UPEIDA (IMLC) AIS Substation at Meerut along with associated transmission line	1st TWC of FY 2026-27 (09.06.2026)
7	Transmission system associated with proposed YEIDA Sector-10 Substation	1st TWC of FY 2026-27 (09.06.2026)
8	Construction of 220/132/33 kV GIS Substation at Sector-155, Noida along with associated lines	1st TWC of FY 2026-27 (09.06.2026)
9	Construction of 132 kV, 2x40 MVA Asroga Substation, Sultanpur along with associated line	2nd TWC of FY 2026-27 (21.07.2026)
10	Upgradation of existing 132 kV Ecotech-10 Substation, Greater Noida to 220 kV level with 2x160 MVA transformers and associated lines along with augmentation from 2x63 MVA to 3x63 MVA	2nd TWC of FY 2026-27 (21.07.2026)
11	Construction of LILO of 132 kV Chhata (220)-Gokul (220) line at 132 kV Vrindavan Substation, Mathura	2nd TWC of FY 2026-27 (21.07.2026)
12	Replacement of old ACSR Panther conductor with new ACSR Panther conductor on 132 kV Gola (220)-Doharighat line	2nd TWC of FY 2026-27 (21.07.2026)
13	Replacement of old ACSR Panther conductor with new ACSR Panther conductor on 132 kV Barhua (220)-Barhalganj line	2nd TWC of FY 2026-27 (21.07.2026)
14	Interchange of primary source between existing and under-construction 132 kV GIS Sector-115 Noida Substations	2nd TWC of FY 2026-27 (21.07.2026)
15	Capacity augmentation of 220/132 kV Basti Substation from 2x200 MVA to 2x200+1x160 MVA	2nd TWC of FY 2026-27 (21.07.2026)
16	Capacity augmentation of 220/132 kV Sultanpur Substation from 1x200+2x160 MVA to 1x200+3x160 MVA	2nd TWC of FY 2026-27 (21.07.2026)
17	Capacity augmentation of 220/132 kV Kursi Road Substation from 2x160+1x200 MVA to 3x160+1x200 MVA	2nd TWC of FY 2026-27 (21.07.2026)
18	Capacity augmentation of 132/33 kV Tajpur Substation	2nd TWC of FY 2026-27 (21.07.2026)
19	Capacity augmentation of 132/33 kV Bijnor Substation	2nd TWC of FY 2026-27 (21.07.2026)
20	Capacity augmentation of 132/33 kV Ambala Road-II Substation	2nd TWC of FY 2026-27 (21.07.2026)
21	Capacity augmentation of 132/33 kV Rampur Maniharan Substation	2nd TWC of FY 2026-27 (21.07.2026)

Sr. No.	Scheme Name	Approved in TWC Meeting/Month
22	Capacity augmentation of 132/33 kV Bhopa Substation	2nd TWC of FY 2026-27 (21.07.2026)
23	Capacity augmentation of 132/33 kV Aonla Substation	2nd TWC of FY 2026-27 (21.07.2026)
24	Capacity augmentation of 132/33 kV Kalwari Substation	2nd TWC of FY 2026-27 (21.07.2026)
25	Capacity augmentation of 132/33 kV Mohaddipur Old Substation	2nd TWC of FY 2026-27 (21.07.2026)
26	Construction of 132 kV Rudhauli-Dumariyaganj TSS D/C line and associated bays	3rd TWC of FY 2026-27 (19.08.2026)
27	Construction of 132 kV Saidabad-Saidabad TSS D/C line and associated bays along with augmentation at Jhusi Substation	3rd TWC of FY 2026-27 (19.08.2026)
28	Replacement of Panther conductor with HTLS conductor on 132 kV Naubasta-MSKP line and strengthening of associated bay	3rd TWC of FY 2026-27 (19.08.2026)
29	Capacity augmentation of 220/132 kV Naubasta Substation from 2x160 MVA to 3x160 MVA	3rd TWC of FY 2026-27 (19.08.2026)

Commission's Observation:

The Commission observes that as intimated by Petitioner certain schemes are at different stages of planning and processing on account of various issues relating to availability or finalization of land, land to be provided by the concerned developers, non-receipt of field inputs and technical particulars, pending feasibility studies, preparation and submission of proposals before the TWC, revision of demand projections and changes in network planning requirements. Few schemes included in previous rolling plan have also been dropped on account of changes in system planning, availability of alternative network arrangements, proposed augmentation or upgradation of existing substations, revision or withdrawal of demand projections, non-requirement of the proposed assets and other planning considerations.

The Commission directs the Petitioner to continuously monitor the status of the remaining schemes and expedite resolution of issues affecting their planning, approval and implementation. The Petitioner shall ensure timely submission of eligible schemes before the TWC and shall furnish an updated year-wise status of all such schemes in its subsequent STU Transmission Plans, clearly distinguishing between schemes approved by the TWC, schemes awaiting approval, schemes under implementation and schemes dropped.

Query No.8: The Petitioner was directed to provide the proposed plan for establishing transmission connectivity for upcoming Pumped Storage

Plants and Green Energy Corridor–III (GEC-III) projects and to provide the current status of these projects.

The Petitioner was also directed to submit the details of GEC-III Scheme like means of finance, mode of implementation and other details vide Commission's Order dated. 28.10.2025. However, the petitioner has not submitted these details with the present Petition.

Response submitted by Petitioner: The Petitioner has submitted that UPPTCL had initially submitted its Green Energy Corridor-III (GEC-III) proposal before the Central Electricity Authority (CEA) for development of a transmission system to evacuate 17,668 MW of Renewable Energy (RE) capacity comprising 4,000 MW Solar, 2,400 MW Pumped Storage Projects (PSPs) and 11,268 MW Floating Solar Projects. The Petitioner has submitted that, based on the observations of Grid-India, CEA advised UPPTCL to revise the proposed network and limit the immediate evacuation target to 4,600 MW Solar capacity and 3,650 MW PSP capacity. Accordingly, UPPTCL submitted a revised comprehensive transmission plan under GEC-III for evacuation of 8,250 MW RE capacity, consisting of 4,600 MW Solar Power and 3,650 MW PSP capacity, which was subsequently approved by CEA. The Petitioner has further submitted that the balance 11,268 MW Floating Solar capacity is proposed to be developed in subsequent phases.

The Petitioner has submitted that the approved evacuation plan for 3,650 MW PSP capacity envisages development of one 765 kV Mirzapur Pooling Substation and one 400 kV Switching Substation at Renukoot-Pipri. The details of the proposed transmission system are as under:

Table 26: Proposed Evacuation Planning of network for evacuation of 3,650 MW power of PSP

Sr. No.	Name of Substation	Mode of Execution	Capacity under GEC-III (MW)	Approved Cost (Rs. in Cr.)	Current Status
1	765/400 kV 4x1500 MVA AIS Mirzapur Pooling S/s & Associated Bays in RTM.	RTM	2,750	1,315.91	The Project scheme has been approved by ETF in its meeting dated 27.04.2026 and has subsequently been submitted before Commission
2	400 kV Mirzapur Pooling S/s (765)-Sahupuri (Quad Moose) DC Line- 68 km	TBCB		399.92	
3	765 kV Bara- Mirzapur Pooling S/s DC Line- 107 km	TBCB		942.51	

Sr. No.	Name of Substation	Mode of Execution	Capacity under GEC-III (MW)	Approved Cost (Rs. in Cr.)	Current Status
4	Construction of 400 kV GIS Switching Substation and associated line for providing connection to M/s Hindalco.	Deposit	900	272.69	for Investment approval.
Total			**3,650**	**2,931.03**	

The Petitioner has further submitted that two 220 kV substations, namely upgradation of the existing 132 kV Pipri Substation and upgradation of the existing 132 kV Mayorpur Substation to the 220 kV level, have been proposed under RTM mode for evacuation of 600 MW Solar Power capacity. The details are as under:

Table 27: Power Evacuation Planning of network for evacuation of 600 MW power of Solar Power

Sr. No.	Name of Substation	Green Energy Capacity GEC-III (MW)	Expected Cost (Rs. in Cr.)
1	Up-gradation of 132/33 kV Pipari Substation at 220kV level -(2x200 MVA)	300	155
2	Up-gradation of 132/33 kV Mayorpur Substation at 220kV level -(2x160 MVA)	300	170
Total		**600**	**325**

The Petitioner has also submitted that, under the GEC-II scheme, 01 Nos. 765 kV, 4 Nos. 400 kV, 10 Nos. 220 kV and 06 Nos. 132 kV substations along with associated transmission lines are presently under construction in the Bundelkhand region for evacuation of 4,000 MW of upcoming solar generation capacity at an estimated cost of Rs. 5,376 Crore.

The Petitioner has further submitted that evacuation of 4,000 MW Solar Power capacity under GEC-III is proposed through augmentation and upgradation of substations and transmission lines approved under the GEC-II scheme in RTM mode. The details of the proposed upgradation works are as under:

Table 28: Upgradation of GEC-II project to get additional 4000 MW capacity

Sr. No.	Name of Substation	Green Energy Capacity GEC-III (MW)	Expected Cost (in Cr.)
1	400/220 kV Chitrakoot S/s	700	575
2	400/220/132 kV Banda S/s (2x160 MVA)	250	124

Sr. No.	Name of Substation	Green Energy Capacity GEC-III (MW)	Expected Cost (in Cr.)
3	400/220/132 kV Maheba S/s (2x500+2x160 MVA)	400	426
4	400/220 kV Garotha S/s (3x500 MVA)	600	58
5	765/400/220 kV Talbehat, Lalitpur S/s (1x1500+2x500 MVA)	1200	249
6	400/220/132 kV Farrukhabad S/s (2x500+2x160 MVA)	200	281
7	220/132 kV Hamirpur S/s (2x160 MVA)	100	131
8	220/132/33 kV Charkhari S/s (1x160 MVA)	50	32
9	220/132/33 kV Dakor S/s (1x160 MVA)	100	41
10	220/132/33 kV Bamaur, Jhansi S/s (1x160 MVA)	100	38
11	220/132/33 kV Bangra S/s (1x160 MVA)	100	42
12	220/132/33 kV Bridha S/s (1x160 MVA)	100	27
13	220/132/33 kV Mandwara S/s (1x160 MVA)	100	45
Total		**4000**	**2,069**

The Petitioner has also submitted the geographical map and single-line block diagram depicting the proposed transmission network under the GEC-III scheme.

Commission's Observation:

The Commission notes that, based on the observations of Grid-India and CEA, the Petitioner has revised the GEC-III transmission plan and obtained approval for evacuation of 8,250 MW of renewable energy capacity comprising 4,600 MW Solar Power and 3,650 MW PSP capacity, while the balance 11,268 MW floating solar capacity is proposed to be taken up in subsequent phases. The Commission further notes that the approved PSP evacuation plan envisages development of a 765 kV Mirzapur Pooling Substation, a 400 kV Switching Substation at Renukoot-Pipri and associated transmission lines, with an estimated investment of Rs. 2,931.03 Crore.

The Commission also notes that 600 MW of solar capacity is proposed to be evacuated through upgradation of Pipri and Mayorpur substations, while an additional 4,000 MW of solar capacity is proposed to be accommodated through augmentation of the GEC-II transmission infrastructure. However,

the details regarding the means of finance and implementation framework of the GEC-III scheme have not been furnished. Therefore, the Petitioner shall submit the requisite details of the GEC-III scheme for consideration of the Commission.

Query No.9: The Petitioner was directed to provide the progress of 21 substations planned under the Green Energy Corridor-II scheme for evacuation of 4,000 MW of solar power and status solar projects. Also, the petitioner was required to submit the compliance of direction issued by the Commission in its Order dated. 28.10.2025.

Response submitted by Petitioner: The Petitioner has submitted the present status of the substations, transmission lines and equipment packages under the Green Energy Corridor-II (GEC-II) Scheme for evacuation of 4,000 MW solar capacity. The Petitioner has further submitted that while several assets have already been energized, the remaining works are under various stages of execution and commissioning, with delays primarily attributable to flooding and waterlogging, ROW issues, statutory clearances and slow progress by EPC contractors as shown in the Table below:

Table 29: Element-Wise Physical Progress of 21 Substations under Green Energy Corridor–II Scheme for 4,000 MW Solar Evacuation

Sr. No.	SS/ Line/ Bay	Name of Scheme	Progress	Anticipated COD
1	SS	132kV Kuthond, Jalaun (132/33 kV, 2x40 MVA)	Substation energised.	Energised 11.09.2025
A	Line	132kV Kuthond-Madhogarh SC Line	Line energised.	Energised 11.09.2025
B	Bay	Bay: 01 no. 132kV Kuthond Bay at 132kV S/s Madhogarh	Bay energised.	Energised 01.08.2025
2	SS	132kV Kadaura, Jalaun (132/33 kV, 2x40 MVA)	Substation energised.	Energised 23.09.2025
A	Line	132kV Kadaura-Hamirpur SC Line	Line energised.	Energised 23.09.2025
B	Bay	Bay: 01 no. 132kV Kadaura Feeder Bay at 132kV Hamirpur (Patara)	Bay energised.	Energised 26.04.2025
3	SS	132kV Gohand, Hamirpur (132/33 kV, 2x40 MVA)	Substation energised.	Energised 30.09.2025
A	Line	LILO of 132kV Panwadi-Sarila Line at Gohand	Line energised.	Energised 30.09.2025
4	SS	400kV Maheba, Jalaun (400/220/132 kV, 2x500+2x160 MVA)	Substation energised.	Energised 27.02.2026
A	Line	LILO of 400kV Banda-Orai Line at 400kV Maheba	Line energised.	Energised 27.02.2026
5	SS	132kV Muskara, Hamirpur (132/33 kV, 2x40 MVA)	Substation energised.	Energised 01.03.2026
A	Line	LILO of 132kV Bharua Samerpur-Sarila Line at 132kV Muskara	Line energised.	Energised 01.03.2026

Sr. No.	SS/ Line/ Bay	Name of Scheme	Progress	Anticipated COD
6	SS	400kV Garautha, Jhansi (400/220 kV, 3x500 MVA)	Substation energised.	Energised 17.03.2026
A	Line	LILO of Ckt-I of 400kV Orai (PG765)-Orai Line at 400kV Garautha	Line energised.	Energised 17.03.2026
B	Line	LILO of Ckt-II of 400kV Orai (PG765)-Orai Line at 400kV Garautha	Line energised.	Energised 17.03.2026
7	SS	132kV Baberu, Banda (132/33 kV, 2x40 MVA)	Substation energised.	Energised 16.04.2026
A	Line	132kV Pailani-Baberu DC Line	Line energised.	Energised 16.04.2026
B	Bay	Bay: 02 nos. 132kV Baberu Feeder Bay at 132kV S/s Pailani	Bays energised.	Energised 28.12.2024
8	SS	400kV Farrukhabad (400/220/132 kV, 2x500+2x160 MVA)	Substation energised.	Energised 01.05.2026
A	Line	400kV Farrukhabad-Badaun DC Line	Line energised.	Energised 01.05.2026
B	Line	LILO of 220kV Chibbramau-Farrukhabad (220) Line at 400kV Farrukhabad	Line energised.	Energised 04.06.2026
C	Line	400kV Farrukhabad-Maheba DC Line	Foundation 429/439 | Erection 425/439 | Stringing 135.10/153.92 km. Overall physical/ financial progress 94.5/77.	31.10.2026 (Scheduled 10.06.2025)
9	SS	220kV Kabrai, Mahoba (220/132/33 kV, 160+40 MVA)	Substation energised.	Energised 23.05.2026
A	Line	220kV Kabrai-Charkhari (220) SC Line	Line energised.	Energised 24.11.2025
10	SS	220kV Dakaur, Jalaun (220/132/33 kV, 160+40 MVA)	Substation energised.	Energised 01.07.2026
A	Line	220kV Dakaur-Maheba (400) SC Line	Line energised.	Energised 01.07.2026
11	SS	220kV Bangra, Jhansi (220/132/33 kV, 160+40 MVA)	Substation energised.	Energised 11.07.2026
A	Line	220kV Bangra-Garautha SC Line	Line energised.	Energised 11.07.2026
12	SS	220kV Charkhari, Mahoba (220/132/33 kV, 160+40 MVA)	40 MVA transformer energised.	Energised 21.07.2026
A	Line	LILO of 132kV Mahoba (220)-Panwari Line at Charkhari	Line energised.	Energised 21.07.2026
B	Line	220kV Charkhari-Garautha (UC 400kV) DC Line	Foundation 209/224 | Erection 112/224 | Stringing NIL of 67 km. Overall physical/ financial progress 62/47.	31.10.2026 (Scheduled 28.07.2025)
13	SS	220kV Birdha, Lalitpur (220/132/33 kV, 160+40 MVA)	Substation energised.	Energised 04.08.2026
A	Line	220kV Birdha-Lalitpur (220) SC Line	Line energised.	Energised 15.11.2025
B	Bay	Bay: 02 nos. 220kV Feeder Bay at 220kV Lalitpur for Birdha & Madawara	Bays energised. Common bays serving both Birdha and Madawara.	Energised 08.05.2025
14	SS	132kV Mehrauni, Lalitpur (132/33 kV, 2x40 MVA)	Substation work completed; to be charged along with 220kV Madawara S/s.	Completed - charging tied to Madawara S/s
A	Line	132kV Mehrauni (Lalitpur)-Madwara (Lalitpur) SC Line	Line work completed.	Completed

Sr. No.	SS/ Line/ Bay	Name of Scheme	Progress	Anticipated COD
15	SS	220kV Bamaur, Jhansi (220/132/33 kV, 160+40 MVA)	Civil 90% | Supply 99% | Erection 87%. Overall physical/ financial progress 92/70.	30.09.2026 (Scheduled 15.09.2025)
A	Line	220kV Bamaur-Garautha SC Line	Line energised.	Energised 07.08.2026
16	SS	220kV Hamirpur (220/132/33 kV, 2x160+2x40 MVA)	Substation energised.	Energised 24.08.2026
A	Line	LILO of 132kV Sumerpur-Sarila Line at Hamirpur	Line work completed.	Completed
B	Line	LILO of 220kV Mahoba (220)-Banda (400) Line at Hamirpur	Foundation 103/107 | Erection 99/107 | Stringing 14.311/36.38 km. Overall physical/ financial progress 80/55.	30.09.2026 (Scheduled 25.09.2025)
C	Line	220kV Maheba-Hamirpur DC Line	Foundation 201/247 | Erection 21/247 | Stringing NIL of 80 km. Overall physical/ financial progress 51/30.	31.10.2026 (Scheduled 25.12.2025)
D	Bay	Bay: 02 nos. Feeder Bay for 220kV Hamirpur-Maheba Line at 220kV Hamirpur	Bay energised.	Energised 24.08.2026
17	SS	220kV Mandawra, Lalitpur (220/132/33 kV, 160+40 MVA)	Civil 92% | Supply 99% | Erection 82%. Overall physical/ financial progress 92/65.	30.09.2026 (Scheduled 15.09.2025)
A	Line	220kV Madawara-Lalitpur (220) SC Line	Foundation 159/159 | Erection 156/159 | Stringing 30.10/54.492 km. Overall physical/ financial progress 88/75.	30.09.2026 (Scheduled 15.09.2025)
18	SS	220kV Jaitpur, Mahoba (220/132/33 kV, 160+40 MVA)	Civil 76% | Supply 95% | Erection 79%. Overall physical/ financial progress 82/50.	30.09.2026 (Scheduled 15.03.2025)
A	Line	220kV Jaitpur-Charkhari SC Line	Foundation 140/142 | Erection 131/142 | Stringing 32/44.144 km. Overall physical/ financial progress 85/70.	30.09.2026 (Scheduled 15.12.2024)
19	SS	220kV Banda Extn. (220/132 kV, 2x160 MVA)	Civil 93% | Supply 75% | Erection 52%. Overall physical/ financial progress 76/65.	30.09.2026 (Scheduled 28.07.2025)
A	Line	LILO of 132kV Banda (220)-Kabrai Line at Banda (400)	Line work completed.	Completed
20	SS	765kV Talbehat, Lalitpur (765/400/220 kV, 1x1500+2x500 MVA)	Civil 58% | Supply 98% | Erection 22%. Overall physical/ financial progress 63/50.	31.12.2026 (Scheduled 12.06.2026)
A	Line	LILO of 765kV Agra-Lalitpur Line at Talbehat	Line energised on anti-theft.	Energised (anti-theft) 07.07.2026
B	Line	220kV Talbehat-Lalitpur DC Line	Line energised on anti-theft.	Energised (anti-theft) 08.04.2026
C	Line	400kV Garautha-Talbehat DC Line	Foundation 373/388 | Erection 373/388 | Stringing 82.408/129.85	31.10.2026 (Scheduled 13.11.2025)

Sr. No.	SS/ Line/ Bay	Name of Scheme	Progress	Anticipated COD
			km. Overall physical/ financial progress 87/70.	
D	Bay	Bay: 02 nos. Bays at Lalitpur TPS	Bays energised.	Energised 31.07.2025
21	SS	400kV Chitrakoot (400/220 kV, 2x500 MVA)	Civil 10% | Supply 0% | Erection 0%. Overall physical/ financial progress is not reported.	28.02.2028
A	Line	400kV Banda-Chitrakoot DC Line - M/s Salasar Techno Engineering Ltd.	Foundation 101/392 | Erection NIL of 392 | Stringing NIL of 136.42 km. Overall physical/ financial progress 17/2.	21.05.2027
B	Bay	Bay: 02 nos. 400kV Chitrakoot Bay at 400kV S/s Banda	Civil 42% | Supply 0% | Erection 0%. Overall physical/ financial progress 16/5.	31.10.2026

Commission's Observation:

The Commission notes that the Petitioner has submitted the status of 21 substations, associated transmission lines and bays under the GEC-II scheme for evacuation of 4,000 MW solar capacity in the State. The Commission further notes that a significant number of assets under the scheme have already been energized, including 132 kV substations at Kuthond, Kadaura, Gohand, Muskara and Baberu; 220 kV substations at Kabrai, Dakaur, Bangra, Birdha and Charkhari (partially through energization of 40 MVA transformer); 400 kV substations at Maheba and Farrukhabad; and the 400 kV Garautha substation. Several associated transmission lines and bays have also been commissioned and put into service.

The Commission further observes that certain substation and transmission line packages are still under execution. The 220 kV substations at Bamaur, Hamirpur, Mandawra, Jaitpur and Banda Extension are under various stages of construction, while the 765 kV Talbehat and 400 kV Chitrakoot substations remain under implementation. Further, a number of associated transmission lines are yet to be completed and commissioned. The Commission also notes that certain assets have witnessed substantial time overruns against their originally scheduled dates of completion.

The Commission observes that timely completion of the balance substations, transmission lines and associated bays is crucial for ensuring

effective evacuation of renewable energy and achieving the objectives envisaged under the GEC-II scheme. Accordingly, the Petitioner shall closely monitor the progress of all pending works, take necessary steps for resolution of issues relating to right of way, statutory clearances, contractor performance and other implementation constraints, and ensure completion and commissioning of the remaining assets within the revised timelines submitted before the Commission. The Petitioner shall also submit periodic progress updates in this regard till completion of all pending works under the scheme.

Query No.10: The Petitioner was directed to provide the details of Inter-State and Intra-State, ATC and TTC power generation for the current financial year.

Response submitted by Petitioner: The Petitioner has submitted the required TTC/ATC power generation data of UP Control Area at different intrastate generation scenarios for the FY 2026-27 (up to September-2026) is as follows:-

Table 30: TTC/ATC for FY 2026-27 (As on Septemeber-2026) (in MW)

Intra State Generation	TTC	RM	ATC	Load Met
13000	18800	600	18200	31200
14000	18300	600	17700	31700
15000	17700	600	17100	32100
16000	17400	600	16800	32800
17000	16900	600	16300	33300
18000	16300	600	15700	33700
19000	15800	600	15200	34200

Commission's Observation:

The Commission notes that the Petitioner has submitted the TTC/ATC assessment of the UP Control Area for FY 2026-27 (upto September-2026) under different intra-State generation scenarios. The Commission further notes that the TTC varies from 18,800 MW to 15,800 MW, while the corresponding ATC varies from 18,200 MW to 15,200 MW as the intra-State generation increases from 13,000 MW to 19,000 MW.

The Commission is of the view that adequate transfer capability should be maintained to ensure secure and reliable operation of the State transmission system. The Commission further observes that the demand projected for FY 2026-27 is 35,955 MW as mentioned in Table-21 so the Petitioner must ensure that requisite ATC is achieved before next summer season so that the projected demand can be met safely. The Petitioner shall continue to monitor TTC/ATC requirements and undertake suitable system strengthening measures, wherever required.

Query No.11: The Petitioner was directed to provide the details of total installed capacity of Uttar Pradesh and plant wise share of capacity allocated for the State of Uttar Pradesh and projections for 5 year along with inter-state capacity data.

Response submitted by Petitioner: The Petitioner has submitted the following details as below:-

Table 31: Installed capacity as on 31/03/2026

S.No	Source	Generator Name	Inter State (MW)	Intra State (MW)	Commissioned Capacity (MW)
1	Thermal	NTPC	394.11	3,485.70	3,879.81
		UPRVUNL	0.00	9,120.00	9,120.00
		THDC(Khurja)	0.00	854.30	854.30
		Reliance Power	495.00	1,200.00	1,695.00
		JV Meija & Ghatampur	0.00	2,271.85	2,271.85
		Bajaj Energy Ltd.	0.00	2,430.00	2,430.00
		Lanco	0.00	1,100.04	1,100.04
		Case - I PTC (TRN KSK MB power & RKM)	2,101.00	0.00	2,101.00
		Case-II PPGCL	0.00	1,647.95	1,647.95
		Other (Hitech Carbon India Pvt. Ltd & M/s Abhinav steel)	0.00	37.00	37.00
		Total Thermal	**2,990.11**	**22,146.84**	**25,136.95**
2	Hydro	NTPC	151.20	0.00	151.20
		NHPC	1,004.64	0.00	1,004.64
		UPJVNL	0.00	432.00	432.00
		THDC	529.04	0.00	529.04
		SJVN	277.64	0.00	277.64
		NEEPCO	55.00	0.00	55.00
		Jay Prakash	352.00	0.00	352.00
		Bimagr Hydro Power Co.	290.00	0.00	290.00

S.No	Source	Generator Name	Inter State (MW)	Intra State (MW)	Commissioned Capacity (MW)
		PTC (TUL & Karchamwangloo)	400.00	0.00	400.00
		Hydro through bidding Tedong, Teesta & GMR)	400.00	0.00	400.00
		Total Hydro	**3,459.52**	**432.00**	**3,891.52**
3	Other than Thermal & Hydro	Gas (NTPC)	90.34	458.29	548.63
		Atomic Energy (NPCIL)	232.74	137.72	370.46
		Small Hydro	0.00	56.80	56.80
		Solar	1,005.00	1,931.70	2,936.70
		Wind	1,676.40	0.00	1,676.40
		Co-gen	0.00	1,475.31	1,475.31
		MSW	0.00	2.00	2.00
		Other RE	0.00	21.00	21.00
		Total Other than (MW)	**3,004.48**	**4,082.82**	**7,087.30**
Grande Total Commissioned Capacity (MW)			**9,454.11**	**26,661.66**	**36,115.77**

Table 32: UPPCL Resource-wise projection of capacity for next 08 years

Financial Year	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30	FY 2030-31	FY 2031-32	FY 2032-33	FY 2033-34	FY 2034-35	Total
Thermal	614.53	-	-	-	2,034	1,800	-	-	-	**4,448.53**
Atomic	80.98	-	-	-	-	-	-	-	-	**80.98**
Hydro	114.00	408.00	-	101.00	51.00	-	385.00	-	241	**1,300.00**
Small Hydro	-	-	-	-	11.50	-	-	-	-	**11.50**
Solar	2,030.00	2,110	-	-	1,000	20.00	-	-	-	**5,160.00**
Wind	1,195.87	600.00	-	-	1,149	-	-	-	-	**2,944.87**
Wind-Solar Hybrid	-	300.00	-	-	-	-	-	-	-	**300.00**
FDRE	2,480.00	1,530	-	-	-	-	-	-	-	**4,010.00**
MSW	-	-	-	-	-	14.00	-	-	-	**14.00**
PM-KUSUM	1,705.40	-	-	-	-	-	-	-	-	**1,705.40**
BESS	250.00	-	-	-	-	-	-	-	-	**250.00**
UP's share in Generation	**8,470.78**	**4,948**	**-**	**101.00**	**4,245.50**	**1,834**	**385.00**	**-**	**241**	**20,225.28**

Commission's Observation:

The Commission has noted the Resource Wise Projection capacity increase for next eight years.

Query No.12: The Petitioner was directed to provide the list of existing reactors which are in running conditions along with their running hours for past 5 years.

Also, vide Commission Order dated. 28.10.2025, the Petitioner was directed to submit the reasons for sudden variations and increase in hours of reactors in its next filing. But the petitioner has not submitted the details with the present Petition. The petitioner is requested to submit these details with the updated number of reactors.

Response submitted by Petitioner: The Petitioner has submitted the list of existing reactors (for Bus reactors & Line reactors) in running conditions with their running hours of past 05 years i.e. from FY 2021-22 to FY 2025-26 as shown in the Table below:

Table 33: Status of Existing Reactors and Their Running Hours (Bus Reactors)

Zone	Name of S/S where Bus Reactor is installed	Voltage level at which Bus Reactor is connected (kV)	Capacity of Reactor (MVAR)	Running Hours of Reactor					Remark
				2021-22	2022-23	2023-24	2024-25	2025-26	
TC, Lucknow	400 kV GIS S/s Jehta, Lucknow	400 kV	63	5256	8735	8774	8750.12	7351	
TC, Lucknow	400 kV S/s Bareilly	400 kV	80	6773	8225.03	6442.1	5921.52	1918.51	
TC, Lucknow	400 kV S/s Sarojini Nagar, Lucknow	400 kV	80	8530	8750	7818	5112	7828	
TC, Lucknow	765 kV S/s Unnao	765 kV	3x63	2666	2371	4363.41	4439.37	2857.47	
TC, Lucknow	400 kV S/s Unnao	400 kV	63	2866.41	3042.16	1704.02	1210	-	
TC, Lucknow	400 kV S/s Sultanpur	400 kV	80	5813	5731	5711	5626	5798	
TW, Meerut	400 kV GIS S/s Shamli	400 kV	125	-	-	3210.11	6220.57	3031.29	
TW, Meerut	400 kV S/s Muradnagar-I	400 kV	125	-	-	-	-	8006	
TW, Meerut	400 kV S/S Greater Noida	Connected to 33 kV side Tertiary of 315 MVA-I	31.5	-	-		-	-	
TW, Meerut	400 kV S/S Greater Noida	Connected to 33 kV side Tertiary of 315 MVA-II	31.5	-			-	-	
TW, Meerut	400 kV S/s Muradnagar-II	400 kV	63	8401	8420	5966	7936	7938	

Zone	Name of S/S where Bus Reactor is installed	Voltage level at which Bus Reactor is connected (kV)	Capacity of Reactor (MVAR)	Running Hours of Reactor					Remark
				2021-22	2022-23	2023-24	2024-25	2025-26	
TW, Meerut	400 kV S/s Sector-148	400 kV	50	-	-	-	-	-	
TW, Meerut	400 kV S/s Moradabad	400 kV	50	-	-	-	-	-	
TW, Meerut	400 kV S/s Muzaffarnagar	400 kV	63	6725	4025	5512	4013	4510	
TSE, Prayagraj	400 kV S/s Sahupuri	400 kV	125	-	-	6148.1	7051.4	1162.31	
TSE, Prayagraj	400 kV S/s Sarnath, Varanasi	400 kV	125	400	-	5024	3365	3595	
TSE, Prayagraj	400 kV S/s Machhlishahr, Jaunpur	400 kV	63	-	-	7110	7695	237	
TSE, Prayagraj	400 kV S/s Masauli, Prayagraj	400 kV	125	8760	8754	8760	8464	6942	
TSW, Agra	400 kV S/s Piliphokar Agra	400 kV	125	6698	4913	4319	8742	7551	
TSW, Agra	765 kV S/s Fatehabad, Agra	765 kV	240	8565.4	8143.92	7401.03	6918.53	8386.25	
TSW, Agra	765 kV S/s Fatehabad, Agra	400 kV	125	8538.32	8653.17	8117.2	7609.13	0	
TSW, Agra	400 kV S/s ALIGARH	400 kV	63	8730	8735	8740	8748	8749	
TSW, Agra	400 kV S/s Manth	400 kV	80	8734.20	8378.09	7785.06	7189.4	6832.49	
TSW, Agra	400 kV GIS S/s Agra-South	400 kV	80	8752.43	8718.54	8619.33	8434.51	8670.54	
TSW, Agra	400 kV S/s Panki, Kanpur	400 kV	125	-	-	4707	5309	5283	Charging dt. 09.08.23
TSW, Agra	400 kV S/s Panki, Kanpur	400 kV	50	9865	-	-	-	-	S/D dt. 29.01.22
TSW, Agra	400 kV S/s Farrukhabad	400 kV	125	-	-	-	-	-	
TSC, Jhansi	400 kV S/s Banda	400 kV	125	7473.53	8752.59	8712.31	8707.31	8593.09	

Zone	Name of S/S where Bus Reactor is installed	Voltage level at which Bus Reactor is connected (kV)	Capacity of Reactor (MVAR)	Running Hours of Reactor					Remark
				2021-22	2022-23	2023-24	2024-25	2025-26	
TSC, Jhansi	400 kV S/s Orai	400 kV	63	8751.35	8251.39	8712.13	8753.21	8542.56	
TNE, Gorakhpur	400 kV S/s Motiramadda, Gorakhpur	400 kV	125	5623.46	6422.1	5173.31	7201.23	5510.13	
TNE, Gorakhpur	400 kV S/s GIS Basti	400 kV	125	8755	8754	8760	7425.58	8739.94	
TNE, Gorakhpur	400 kV S/s Kasara, Mau	400 kV	125	0	269.56	8764.53	8696.5	8074	
TNE, Gorakhpur	400 kV S/s RASRA	400 kV	125	-	449.17	6893.37	6985.08	3693.03	
TSC, Jhansi	400 kV S/s Banda	400 kV	63	7473.53	8752.39	8712.31	8707.31	8593.09	
TSC, Jhansi	400 kV S/s Orai	400 kV	63	8751.35	8251.39	8712.13	8753.21	8542.56	

Table 34: Status of Existing Reactors and Their Running Hours (Line Reactors)

Zone	Name of S/S where Line Reactor is	Name of line with Voltage level	Capacity of Reactor	Reactor Hours					Remark
				2021-22	2022-23	2023-24	2024-25	2025-26	
TC, Lucknow	400 kV S/s Bareilly	400 kV Bareilly-Unnao Circuit-I	50	-	-	-	-	-	
TC, Lucknow	400 kV S/s Bareilly	400 kV Bareilly-Unnao Circuit-I	63	-	-	5703.46	8505.53	8401.25	Charged on 11.08.2023
TC, Lucknow	400 kV S/s Bareilly	400 kV Bareilly-Unnao Circuit-II	50	8247.4	6138.4	7723.58	-	-	
TC, Lucknow	400 kV S/s Bareilly	400 kV Bareilly-Unnao Circuit-II	63	-	-	742.54	8176.1	8554.42	Charged on 03.03.2024
TC, Lucknow	400 kV S/s Sarojini Nagar, Lucknow	400 kV Sarojini Nagar - Singrauli (NTPC) Line	63.5	8670	8518	8330	7905	8255	

Zone	Name of S/S where Line Reactor is	Name of line with Voltage level	Capacity of Reactor	Reactor Hours					Remark
				2021-22	2022-23	2023-24	2024-25	2025-26	
TC, Lucknow	400 kV S/s Sarojini Nagar, Lucknow	400 kV Sarojini Nagar - Bareilly (PG) Line	50	8618	8473	8715	8708	8731	
TC, Lucknow	765 kV S/s Unnao	765 kV Anpara C-Unnao Line	3x110	8447.29	8660.22	7490.22	8581.53	8506.33	
TC, Lucknow	765 kV S/s Unnao	765 kV Obra C-Unnao Line	3x110	2219	S/D	7904.49	8610.36	8564	
TC, Lucknow	765 kV S/s Unnao	765 kV Unnao-Mainpuri Line	3x50	-	-	-	-	1450.39	
TC, Lucknow	400 kV S/s Unnao	400 kV Unnao-Agra Line	50	8513.22	8538.3	7984.24	8663.14	8383.24	
TC, Lucknow	400 kV S/s Unnao	400 kV Unnao-Bareilly Ckt-I	50	8399.37	8800.27	8637.47	8706.05	8457.21	
TC, Lucknow	400 kV S/s Unnao	400 kV Unnao-Bareilly Ckt-II	50	8517.56	7932.37	8424.25	8750.4	8543.56	
TW, Meerut	400 kV GIS S/s Shamli	400 kV Shamli - Khurja	50	-	-	4164.28	8268.31	3404.30	
TW, Meerut	400 kV GIS S/s Shamli	400 kV Shamli - Aligarh	50	-	-	4253.20	4996.33	3338.41	
TW, Meerut	400 kV S/s Muzaffarnagar	400 kV Muzaffarnagar - Vishnuprayag	50	8112	8657	8512	8602	8712	
TW, Meerut	400 kV S/s Muzaffarnagar	400 kV Muzaffarnagar - Alakhnanda	50	8663	8744	8841	8713	8935	

Zone	Name of S/S where Line Reactor is	Name of line with Voltage level	Capacity of Reactor	Reactor Hours					Remark
				2021-22	2022-23	2023-24	2024-25	2025-26	
TSE, Prayagraj	400 kV S/s Sahupuri	400 kV Sahupuri - Biharshari f-I	63	-	-	6250.25	7049.52	1162.37	
TSE, Prayagraj	400 kV S/s Sahupuri	400 kV Sahupuri - Biharshari f-II	63	-	-	6170	7065	1169	
TSE, Prayagraj	400 kV S/s Machhlishah r, Jaunpur	400 kV Obra-B - Jaunpur	50	-	-	4584	8538	4061	
TSE, Prayagraj	400 kV S/s Machhlishah r, Jaunpur	400 kV Obra-C - Jaunpur	50	-	-	5160	7871	4597	
TSW, Agra	400 kV S/s Piliphokar Agra	400 kV Agra - Unnao	50	5007	-	-	-	-	
TSW, Agra	765 kV S/s Fatehabad, Agra	765 kV Fatehabad-Lalitpur-I	240	8637.98	8676.83	8715.98	8691.12	8652.07	
TSW, Agra	765 kV S/s Fatehabad, Agra	765 kV Fatehabad-Lalitpur-II	240	8659.28	8649.38	8727.88	8716.72	8690.67	
TSW, Agra	765 kV S/s Fatehabad, Agra	765 kV Fatehabad-Gr. Noida Line	240	8569.23	8615.52	8664.97	8695.3	8663.73	
TSW, Agra	765 kV S/s Fatehabad, Agra	765 kV Fatehabad-Ghatampur Line	189	8337.5	8645.77	8707.1	6535.08	8453.57	
TSW, Agra	400 kV S/s Aligarh	400 kV Aligarh-Panki Line	63	8735	8742	8746	8748	8750	
TSW, Agra	400 kV S/s Aligarh	400 kV Panki-Aligarh Line	50	8418	8656	8745	8648	7834	

Zone	Name of S/S where Line Reactor is	Name of line with Voltage level	Capacity of Reactor	Reactor Hours					Remark
				2021-22	2022-23	2023-24	2024-25	2025-26	
TSW, Agra	400 kV S/s Panki, Kanpur	400 kV Panki - Reewa Road Line	50	8131	8635	8627	8307	5032	
TNE, Gorakhpur	400 kV S/s Basti	400 kV	50 MVAR-I	8714	8449.32	8709.5	8662	8760	
TNE, Gorakhpur	400 kV S/s Basti	400 kV	50 MVAR-2	8757	8437.42	8745.99	8695.5	8760	
TNE, Gorakhpur	400 kV S/s Azamgarh	400 kV Azamgarh -Mau Line	50	-	-	-	-	5619	

Commission's Observation:

The Commission notes that the Petitioner has submitted the details of existing bus reactors and line reactors along with their running hours for the period FY 2021-22 to FY 2025-26. The Commission observes that while several reactors have continued to operate for substantial hours over the years, the running hours of certain reactors have exhibited significant variations. In particular, some newly charged reactors have shown a sharp increase in running hours, whereas the running hours of certain existing reactors have reduced considerably due to network changes, commissioning of new transmission assets, operational requirements and outage conditions.

The Commission further notes that the Petitioner has furnished the updated status of reactors and their running hours for the past five years. However, variations in running hours of certain bus reactors and line reactors across different substations require further analysis. Therefore, the Petitioner shall examine the reasons for such variations and sudden increase or decrease in reactor running hours and furnish a detailed justification in its subsequent filing.

Query No.13: The Petitioner was directed to provide the details of Users i.e. generating companies including captive generating plants, distribution licensees, transmission licensees (other than STU), captive users, open access consumers, in the following manner:

(i) Complete list of Users of intra-State transmission system

(ii) Discom wise list of 33 kV bays which are currently not connected to the Transmission system.

(iii) Fuel-wise generating capacity growth in the state up to 31st March 2026.

(iv) Copies of Power Purchase Agreements (PPAs) related to the upcoming generating stations cited by UPPTCL, to assess the likelihood of their commissioning during the five-year plan period.

(v) The present status of solar parks in terms of installed capacity (MW).

(vi) The status of connectivity for the aforementioned solar parks.

(vii) User-wise details of connection agreements (bi-partite or tri-partite):

(a) Date of execution of connection agreement,

(b) Quantum of connectivity,

(c) Point of connectivity (with voltage level)

Response submitted by Petitioner: The Petitioner has submitted the details as listed out below:

(i) The Petitioner has submitted the details of 456 short-term open access customers, including the quantum of capacity availed by each customer, along with the details of 11 Transmission Licensees connected to the transmission system.

(ii) Discom wise details of 33 kV sub-stations and bays which are currently not connected to the Transmission system.

Table 35: Discom wise details of 33 kV Bays

S. No.	Name of Transmission Zone	Number of Unconnected 33 kV Bays	Number of 33 kV Bays Allocated for Projects/Other Agencies	Number of Unallocated and Unconnected 33 kV Bays
1	Transmission West, Meerut	234	144	90
2	Transmission South-West, Agra	63	31	32
3	Transmission South-Central, Jhansi	15	7	10
4	Transmission South-East, Prayagraj	80	34	46
5	Transmission North-East, Gorakhpur	110	66	44

S. No.	Name of Transmission Zone	Number of Unconnected 33 kV Bays	Number of 33 kV Bays Allocated for Projects/Other Agencies	Number of Unallocated and Unconnected 33 kV Bays
6	Transmission Central, Lucknow	200	106	94
	Total	**704**	**388**	**316**

(iii) Details of Thermal generating capacity (Contracted & Commissioned capacity) growth in the state From FY 2020-21 to FY 2025-26.

Table 36: Generation Thermal Capacity from FY 2020-21 to FY 2025-26 (Contracted Capacity in MW)

Source	Fuel wise generating capacity (MW) (Contracted Capacity)					
	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Thermal	-	-	-	-	-	1500
Nuclear	-	203.72	85.76	-	-	161.96
Solar	-	200	66	3065	-	2115
Wind	-	-	966.37	300	1175	600
Bagasse	18.94	-	-	-	-	-
Biomass	-	-	-	-	-	-
MSW	-	-	-	-	-	-
Gas	-	-	-	-	-	-
Slop	21	-	-	-	-	-
Hydro	-	400	-	-	851	-
Small Hydro	-	-	-	-	-	1.5
BESS	-	-	-	-	-	250
PHSP	-	-	-	-	-	-
FDRE	-	-	-	-	2480	1530.00
Hybrid	-	-	-	-	-	300.00
Kusum-Ph 1	-	-	-	-	34.80	-
Kusum-Ph 2	-	-	-	-	-	1673.30
Total	**39.94**	**803.72**	**1118.13**	**3365.00**	**4540.80**	**8131.76**

Table 37: Generation Thermal Capacity from FY 2020-21 to FY 2025-26 (Commissioned Capacity in MW)

Source	Fuel wise generating capacity (MW) (Commissioned Capacity)					
	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Thermal	1042.80	1603.46	209.88	-	2361.73	3021.73
Nuclear	-	-	-	-	-	80.98
Solar	690.00	52.00	75.00	190.00	40.00	-
Wind	936.00	180.00	-	-	-	-
Bagasse	-	13.94	5.00	-	-	-
Biomass	-	-	-	-	-	-
MSW	-	-	-	-	-	-
Gas	-	-	-	-	-	-
Slop	9.50	5.50	-	-	-	-
Hydro	55.00	-	-	-	-	160.00
Small Hydro	-	-	-	-	1.50	-
BESS	-	-	-	-	-	-
PHSP	-	-	-	-	-	-
FDRE	-	-	-	-	-	-
Hybrid	-	-	-	-	-	-
Kusum-Ph 1	-	-	-	-	1.00	1.70

Source	Fuel wise generating capacity (MW) (Commissioned Capacity)					
	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Kusum-Ph 2	-	-	-	-	-	-
Total	**2733.3**	**1854.9**	**289.88**	**190.00**	**2404.23**	**3264.41**

(iv) The petitioner has submitted the Copies of Power Purchase Agreements (PPAs) of upcoming generating station i.e M/s JSW Energy PSP Six Limited (1500 MW PSP), Mirzapur Thermal (2x800 MW) and Adani Hydro Energy Five Limited (1250 MW PSP).

(v) The present status of various solar projects for developing solar parks in terms of installed capacity (MW) along with their commissioned status has been submitted by the Petitioner as shown in the table below:

Table 38: Total RE Capacity installed in Uttar Pradesh till April 2026 by Solar Developers

Phase- I (Solar Policy 2013)

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
1	M/s Essel Urja Pvt. Ltd.	50	132/33 kV S/s Kalpi	Commissioned	132 kV
2	M/s Jakson Power Pvt. Ltd.	10	132/33 kV S/s Lalitpur	Commissioned	33 kV
3	M/s Refex Energy (Rajasthan) Pvt. Ltd.	10	132/33 kV S/s Lalitpur	Commissioned	33 kV
4	M/s Samayist Energy Solutions Pvt. Ltd.	10	132/33 kV S/s Lalitpur	Commissioned	33 kV
5	M/s Azure Surya Power Pvt. Ltd.	10	132/33 kV S/s Bajariya, Mahoba	Commissioned	33 kV
6	M/s Spinel Energy & Infrastructure Ltd.	20	132/33 kV S/s Panwari	Commissioned	33 kV
Total		**110 MW**			

Phase- II (Solar Policy 2013)

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
1	M/s Green Urja Pvt. Ltd.	30	132/33 kV S/s Panwari	Commissioned	132 kV
2	M/s Nirosha Power Pvt. Ltd.	30	132/33 kV S/s Panwari	Commissioned	132 kV
3	M/s Universal Saur Urja Pvt. Ltd.	30	132/33 kV S/s Panwari	Commissioned	132 kV
4	M/s K M Energy Pvt. Ltd.	5	132/33 kV S/s Panwari	Commissioned	33 kV
5	M/s Sun N Wind Infra Energy Pvt. Ltd.	10	132/33 kV S/s Mehrauni	Commissioned	33 kV
6	M/s Spinel Energy &	20	132/33 kV S/s Bajariya, Mahoba	Commissioned	33 kV

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
	Infrastructure Ltd.				
Total		**125 MW**			

Phase- III (Solar Policy 2013)

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
1	M/s Essel Infra Projects Ltd.	50	132/33 kV S/s Kalpi	Commissioned	132 kV
2	M/s Adani Green Energy Ltd.	50	220/132 kV S/s Dunara	Commissioned	132 kV
3	M/s Sukhbir Agro Energy Ltd.	20	132/33 kV S/s Mehrauni	Commissioned	33 kV
4	M/s Sukhbir Agro Energy Ltd.	20	132/33 kV S/s Mahoba	Commissioned	33 kV
5	M/s Shree Radhey Radhey Ispat Pvt. Ltd.	15	132/33 kV S/s Kalpi	Commissioned	33 kV
6	M/s Sukhbir Agro Energy Ltd.	10	132/33 kV S/s Mehrauni	Commissioned	33 kV
7	M/s Technical Associates	10	220/132 kV S/s Bahraich	Commissioned	132 kV
8	M/s Surana Telecom & Power Ltd.	5	132/33 kV S/s Sarella	Commissioned	33 kV
9	M/s Fermorar Shipping Pvt. Ltd.	5	132/33 kV S/s Mahoba	Commissioned	33 kV
10	M/s Pinnacle Air Pvt. Ltd.	5	132/33 kV S/s Biswan	Commissioned	33 kV
11	M/s N P Agro India Industries Ltd.	5	132/33 kV S/s Sarella	Commissioned	33 kV
12	M/s Sahasradhara Energy Pvt. Ltd.	5	132/33 kV S/s Kushmara	Commissioned	33 kV
13	M/s Lohia Developers (India) Pvt. Ltd.	5	132/33 kV S/s Bharua, Sumerpur	Commissioned	33 kV
Total		**205 MW**			

Progress of UPNEDA Projects

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
1	UPNEDA	20	132/33 kV S/s Gursarai	Commissioned	33 kV
2	UPNEDA	5	132/33 kV S/s Gokul, Mathura	Commissioned	33 kV
Total		**25 MW**			

National Solar Mission (Phase II Batch II)

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
1	M/s Prayatana Developers Pvt. Ltd.	50	132/33 kV S/s Mahoba	Commissioned	132 kV
2	M/s Azure Power Jupiter Pvt. Ltd.	20	220/132 kV S/s Banda	Commissioned	33 kV
3	M/s Azure Power Jupiter Pvt. Ltd.	10	132/33 kV S/s Patara, Hamirpur	Commissioned	33 kV

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
4	M/s Azure Power Jupiter Pvt. Ltd.	20	132/33 kV S/s Srimau-Rupapur (Hardoi)	Commissioned	33 kV
Total		**100 MW**			

National Solar Mission (Phase II Batch III)

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
1	M/s UP Koruan Urja Pvt. Ltd.	40	132/33 kV S/s Koraun	Commissioned	132 kV
2	M/s UP Sarila Urja Pvt. Ltd.	40	132/33 kV S/s Usawan	Commissioned	132 kV
3	M/s UP Mehrauni-II Urja Pvt. Ltd.	40	132/33 kV S/s Lalganj	Commissioned	132 kV
4	M/s UP Mehrauni-I Urja Pvt. Ltd.	40	132/33 kV S/s Shankargarh	Commissioned	132 kV
Total		**160 MW**			

Solar Park

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
1	LSPDCL	75	132/33 kV S/s Meja	Commissioned	132 kV
2	LSPDCL	50	132/33 kV S/s Jigna	Commissioned	132 kV
3	LSPDCL	40	400/220/132 kV S/s Aata, Orai	Commissioned	132 kV
4	LPDCL (Parashan)	75	400/220/132 kV S/s Aata, Orai	Commissioned on 22.11.2022	132 kV
5	LPDCL (Gurrah)	75	400/220/132 kV S/s Aata, Orai	Commissioned on 29.12.2023	132 kV
6	LPSDCL (Gujrai)	50	132/33 kV S/s Pukhrayan Kanpur	Commissioned	132 kV
Total		**365 MW**			

UPNEDA Bid of 500MW under Solar Policy 2017

Phase I

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
1	M/s Kilaj (Maharashtra) Pvt. Ltd.	50	132/33 kV S/s Jalalabad	Commissioned	132 kV
2	M/s Kilaj (Maharashtra) Pvt. Ltd.	50	132/33 kV S/s Sahaswan	Commissioned	132 kV
3	M/s Talettuayi	50	132/33 kV S/s Bisi	Commissioned	132 kV
4	M/s Sukhbeer Agro Energy Ltd.	50	132/33 kV S/s Konch	Commissioned	132 kV

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
5	M/s NTPC Limited, Noida	140	132/33 kV S/s Bihaur & Rasulabad	Commissioned	132 kV
6	M/s Avaada	30	132/33 kV S/s Usawan	Commissioned	132 kV
7	M/s Maheswari Mining and Energy Pvt. Ltd.	15	132/33 kV S/s Moth	Commissioned	33 kV
8	M/s Maheswari Mining and Energy Pvt. Ltd.	5	132/33 kV S/s Moth	Commissioned	33 kV
Total		**390 MW**			

UPNEDA Bid of 500MW under Solar Policy 2017

Phase II

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
1	M/s Adani Wind Energy (TN) Ltd.	50	132/33 kV S/s Mau (Chitrakoot)	Commissioned	132 kV
2	M/s Adani Wind Energy (TN) Ltd.	25	132/33 kV S/s Mau (Chitrakoot)	Commissioned	132 kV
3	M/s Tata Power Renewable Energy Ltd.	50	132/33 kV S/s Banda	Commissioned	132 kV
4	M/s Tata Power Renewable Energy Ltd.	50	132/33 kV S/s Shankargarh (Prayagraj)	Commissioned	132 kV
5	M/s Jakson Power Pvt. Ltd.	50	132/33 kV S/s Khairagarh	Commissioned	132 kV
6	M/s NTPC Ltd.	85	LILO of 132 kV S/s Mallawan Bangermau	Commissioned	132 kV
Total		**310 MW**			

UPNEDA Bid of 72MW under Solar Policy 2017

Phase III

Sl. No.	Name of Solar Developer	Capacity (MW)	Connectivity at S/s	Commissioning Status	Voltage Level
1	M/s Sukhbir Agro Energy Ltd.	32	132/33 kV S/s Konch	Commissioned	132 kV
2	NTPC	20	NTPC-Oriya	Commissioned	33 kV
Total		**52 MW**			

Open Access Projects

Sl. No.	Category / Scheme	Year	Name of Developer / Organization	Capacity (MW)	Connectivity at S/s / Name of Substation	Commissioning Status	Voltage Level
1	Open Access Projects	2019	M/s Lagni Power Pvt. Ltd.	60	132/33 kV S/s Chhutmalpur	Commissioned	132 kV

Sl. No.	Category / Scheme	Year	Name of Developer / Organization	Capacity (MW)	Connectivity at S/s / Name of Substation	Commissioning Status	Voltage Level
2	Open Access Projects	2019	M/s Amplus Green Power Pvt. Ltd.	50	132/33 kV S/s Gurudevnagar	Commissioned	132 kV
3	Open Access Projects	2019	M/s Ampsolar Clean Power Ltd.	20	132/33 kV S/s Payagpur	Commissioned	33 kV
4	Open Access Projects	2019	M/s Ampsolar Evolution Pvt. Ltd.	10	132/33 kV S/s Tilhar	Commissioned	33 kV
5	Open Access Projects	2019	M/s Ampsolar Evolution Pvt. Ltd.	10	132/33 kV S/s Begumpur	Commissioned	33 kV
6	Open Access Projects	2019	M/s Haldiram Snacks Pvt. Ltd.	10	132/33 kV S/s Asha	Commissioned	33 kV
7	Open Access Projects	2019	M/s Amrit Bottlers Pvt. Ltd.	10	132/33 kV S/s Musafirkhana	Commissioned	33 kV
8	Open Access Projects	2019	M/s Brindavan Beverages Pvt. Ltd.	10	132/33 kV S/s Kapsaad	Commissioned	33 kV
9	Open Access Projects	2019	M/s Lone Cypress Ventures Pvt. Ltd.	10	132/33 kV S/s Morna	Commissioned	33 kV
10	Open Access Projects	2019	M/s Amplus RJ Solar Pvt. Ltd.	40	220/132 kV S/s Katrari Deoria	Commissioned	132 kV
11	Open Access Projects	2019	M/s Ampsolar Urja Pvt. Ltd.	20	132/33 kV S/s Nawabganj	Commissioned	33 kV
12	Open Access Projects	2019	M/s Lone Cypress Ventures Pvt. Ltd.	20	132/33 kV S/s Sherkot	Commissioned	33 kV
13	Open Access Projects	2019	M/s Ampsolar Urja Pvt. Ltd.	20	132/33 kV S/s Mishrikh	Commissioned	33 kV
14	Open Access Projects	2019	M/s Greenyana Energy Pvt. Ltd.	15	132/33 kV S/s Bangarmau	Commissioned	33 kV
15	Open Access Projects	2019	M/s ITC Limited	10	132/33 kV S/s Laharpur, Sitapur	Commissioned	33 kV
16	Open Access Projects	2019	M/s IB Vogt Solar Four Pvt. Ltd.	10	132/33 kV S/s Kabrai	Commissioned	33 kV
17	Open Access Projects	2020	M/s Solarstream Renewable Services Pvt. Ltd.	10	132/33 kV S/s Kabrai	Commissioned	33 kV
18	Open Access Projects	2020	M/s Sunsure SolarPark Eight Pvt. Ltd.	10	132/33 kV S/s Pailani	Commissioned	33 kV
19	Open Access Projects	2020	M/s Sunsure Solarpark Two Pvt. Ltd.	10	132/33 kV S/s Pailani	Commissioned	33 kV

Sl. No.	Category / Scheme	Year	Name of Developer / Organization	Capacity (MW)	Connectivity at S/s / Name of Substation	Commissioning Status	Voltage Level
20	Open Access Projects	2020	M/s Purshottam Aura Pvt. Ltd.	10	132/33 kV S/s Mishrikh	Commissioned	33 kV
21	Open Access Projects	2020	M/s Sunsure Solarpark Five Pvt. Ltd.	7.965	132/33 kV S/s Pinahat	Commissioned	33 kV
22	Open Access Projects	2020	M/s Fintic Food Manufacturing Pvt. Ltd.	10	132/33 kV S/s Bisalpur	Commissioned	33 kV
23	Open Access Projects	2020	M/s Samiksha Solarworld Pvt. Ltd.	10	132/33 kV S/s Bisalpur	Commissioned	33 kV
24	Open Access Projects	2020	M/s Fourth Partner Solar Power Pvt. Ltd.	70	220/132 kV S/s Babina	Commissioned	132 kV
25	Open Access Projects	2020	M/s AMP Energy Green Thirteen Pvt. Ltd.	37.50	132/33 kV S/s Haldharpur	Commissioned	132 kV
26	Open Access Projects	2020	M/s AMP Energy Green One Pvt. Ltd.	25	400 kV S/s Rasra	Commissioned	132 kV
27	Open Access Projects	2021	M/s Upendra Singh Multi Transmission Pvt. Ltd.	10	220/132 kV S/s Shahajhanpur	Commissioned	33 kV
28	Open Access Projects	2021	M/s Avaada Indsolar Pvt. Ltd.	70	132/33 kV S/s Pailani	Commissioned	132 kV
29	Open Access Projects	2021	M/s JPL	10	132 kV S/s Lalganj	Commissioned	33 kV
30	Open Access Projects	2022	M/s AMPLUS SOLAR SHAKTI Pvt. Ltd.	50	132/33 kV S/s Gursarai	Commissioned	132 kV
31	Open Access Projects	2022	M/s SURYAUJA FOUR Pvt. Ltd.	10	132/33 kV S/s Lalitpur	Commissioned	33 kV
32	Open Access Projects	2022	M/s SURYAUJA FOUR Pvt. Ltd.	10	132/33 kV S/s MOTH	Commissioned	33 kV
33	Open Access Projects	2022	M/s ISHARAYS ENERGY TWO Pvt. Ltd.	10	132/33 kV S/s Gursarai	Commissioned	33 kV
34	Open Access Projects	2022	M/s Sunsure Solar Park Sixteen Pvt. Ltd. / M/s MELUMALAI ENERGY Pvt. Ltd.	12	132/33 kV S/s Gursarai	Commissioned	33 kV
35	Open Access Projects	2022	M/s Netra Renewable Energy Pvt. Ltd.	50	132 kV S/s Erach	Commissioned	132 kV

Sl. No.	Category / Scheme	Year	Name of Developer / Organization	Capacity (MW)	Connectivity at S/s / Name of Substation	Commissioning Status	Voltage Level
36	Open Access Projects	2023	M/s Sunsure Solarpark Six Pvt. Ltd.	35	132/33 kV S/s Augasi	Commissioned	132 kV
37	Open Access Projects	2023	M/s NTPC Green Energy Ltd.	40	132/33 kV S/s Darshan Nagar	Commissioned	132 kV
38	Open Access Projects	2023	M/s Sunsure Solar Park Ten Pvt. Ltd.	10	132 kV S/s Panwari	Commissioned	33 kV
39	Open Access Projects	2023	M/s Aspirative Creative Ventures Pvt. Ltd.	10	132/33 kV S/s Salaikhurd	Commissioned	33 kV
40	Open Access Projects	2023	M/s Sunsure Solar Park Nine Pvt. Ltd.	10	132 kV S/s Mau	Commissioned	33 kV
41	Open Access Projects	2024	M/s Isharays Energy Two Pvt. Ltd.	10	132 kV Substation Gursarai, Jhansi	Commissioned	33 kV
42	Open Access Projects	2024	M/s Amplus Tungabhadra Pvt. Ltd.	45	132 kV S/s Pasahi	Commissioned	132 kV
43	Open Access Projects	2025	M/s Amplus Tungabhadra Pvt. Ltd.	5	132 kV S/s Pasahi	Commissioned	132 kV
44	Open Access Projects	2025	M/s Netra Renewable Energy Pvt. Ltd.	5	132 kV S/s Erach	Commissioned	132 kV
Total				**757. 50 MW**			

(vi) The Petitioner has submitted the details of 522 Connection Agreements executed with various users, indicating the date of execution of the respective bi-partite/tri-partite Connection Agreement, the quantum of connectivity granted, and the corresponding point of connectivity along with the voltage level.

Commission's Observation:

The Commission notes that the Petitioner has submitted the details of 456 short-term open access customers, details of 522 Connection Agreements executed with various users of the transmission system, details of unconnected 33 kV bays, PPAs of upcoming generating stations, generation capacity additions and the status of solar projects in the State.

The Commission further notes that out of 704 unconnected 33 kV bays, 388 bays have been allocated for projects and other agencies, while 316 bays remain unallocated and unconnected. The Commission also notes that contracted generation capacity additions have increased from 39.94 MW in

FY 2020-21 to 8,131.76 MW in FY 2025-26, driven by thermal, solar, FDRE, BESS, Hybrid and Kusum schemes. Further, around 2,600 MW of solar capacity has already been commissioned under various solar policies, solar parks, UPNEDA schemes and open access projects. The Petitioner shall continue to coordinate with stakeholders for optimal utilization of available bays and provide updated status of connectivity arrangements and upcoming generation projects in future filings.

Query No.14: The Petitioner was directed to provide following details in tabular from w.r.t. details of LTOA Customers i.e. generating companies including captive generating plants, distribution licensees, trading licensees, captive users, open access consumers-

(i) Complete list of LTOA Customers of intra-State transmission system.

(ii) LTOA Customers-wise details of BPTAs/TSAs,

  (a) Date of execution of BPTA/TSA,

  (b) Quantum of long-term open access,

  (c) Period/duration of long-term open access.

Response submitted by Petitioner: The Petitioner has submitted details of 238 LTOA customer wise details of BPTA (executed by UPPTCL) with date of execution, quantum and period of long term open access.

Query No.15: The Petitioner was required to submit the methodology by which demand projections have been carried out, Whether the relevant stakeholders UPPCL, Private Distribution Companies and Indian Railways have been consulted during the formulation of STU Transmission Rolling Plan.

Response submitted by Petitioner: The Petitioner submitted that, for demand forecasting, it has considered the actual CAGR growth of 5.99% based on the peak RDM demand of the preceding five years. The Petitioner further submitted that the projected demand also incorporates the load requirements furnished by various entities, including IMLC, Awas Vikas, LDA, Indian Railways, and other consumers.

Commission's Observation:

The Commission notes that the Petitioner has submitted the methodology adopted for demand forecasting and has considered the actual CAGR growth of 5.99% based on the peak demand of the preceding five years. The Commission further notes that the projected demand also takes into account the load requirements submitted by various stakeholders, including Indian Railways, IMLC, Awas Vikas, LDA and other consumers.

The Commission is of the view that consideration of stakeholder inputs in demand assessment facilitates more realistic planning of the transmission network. The Petitioner shall continue to periodically review such demand projections and undertake detailed system studies to ensure adequate and optimal development of the transmission system in line with future load growth requirements.

Query No.16: The Commission has observed that the capital expenditure for approved and planned transmission works submitted by the Petitioner for FY 2026-27, amounting to Rs. 7,761.09 Crores in Petition No. 2362 of 2026, shows a significant variation compared to the capital investment plan of Rs. 4,611.49 Crores submitted earlier in Tariff Petition No. 2320 of 2025 for ARR FY 2026-27.

Accordingly, the Petitioner was requested to provide a detailed explanation and justification for this deviation. Further, the Petitioner was also required to furnish a voltage-wise and mode-wise breakup of the capital expenditure amounting to Rs. 7,761.09 Crores for the approved and planned transmission works for FY 2026-27.

Response submitted by Petitioner: The Petitioner has submitted that the capital investment plan of Rs. 4,611.49 Crores, as reflected in Tariff Petition No. 2320 of 2025 for ARR FY 2026-27, represents the budgeted cash expenditure proposed to be incurred during FY 2026-27 and is based on realistic project execution timelines. The said projection is limited to schemes under RTM, GEC-II and Deposit modes. The mode-wise breakup of the capital investment plan is as under:

Table 39: Breakup of Investment for FY 2026-27 (in Crs)

Particular	Debt	Equity	Grant	Deposit	FY 2026-27
UPPTCL RTM	1,726.52	739.94	-	-	2,466.46

Particular	Debt	Equity	Grant	Deposit	FY 2026-27
GEC-II	519.49	221.06	364.75	-	1,105.30
Deposit	-	-	-	1,039.73	1,039.73
Total	**2,246.01**	**961.00**	**364.75**	**1,039.73**	**4,611.49**

The Petitioner further submitted that a capital investment of Rs. 4,693.20 Crores for FY 2026-27 had also been considered in the Rolling Transmission Plan FY 2025-26 to FY 2029-30 filed in Petition No. 2200 of 2025.

The Petitioner submitted that the amount of Rs. 7,761.09 Crores for FY 2026-27 indicated in Petition No. 2362 of 2026 pertains to the aggregate approved/estimated project cost considered under the Rolling Transmission Plan FY 2026-27 to FY 2030-31 and is not comparable with the annual ARR capital expenditure budget. The Petitioner submitted that, unlike the ARR filing which captures only the expected expenditure during a particular financial year, the Rolling Transmission Plan considers the entire capital cost of projects in the year in which they are planned. Accordingly, the amount includes the cost of newly proposed schemes, spill-over schemes from previous years and schemes scheduled for implementation in subsequent years. The mode-wise breakup of the capital expenditure proposed under the Rolling Transmission Plan is as under:

Table 40: Mode wise CAPEX breakup for FY 2026-27 to FY 2030-31 (in Crs)

Mode of Ex.	2026-27	2027-28	2028-29	2029-30	2030-31	Grand Total
RTM	2,965.46	3,962.04	1,544.53	5,330.26	1,311.22	15,113.51
TBCB	823.54	574.36	2,351.31	8,017.67	2,371.25	14,138.13
Deposit	1,475.40	1,481.66	1,285.69	1,371.68	454.60	6,069.03
RTM-GEC-II	2,579.17	619.90	-	-	-	3,199.07
Grand Total	**7,843.57**	**6,637.96**	**5,181.53**	**14,719.61**	**4,137.07**	**38,519.74**

Commission's Observation:

The Commission notes that the Petitioner has clarified that the capital expenditure of Rs. 4,611.49 Crore submitted in ARR Petition No. 2320 of 2025 represents the budgeted expenditure proposed to be incurred during FY 2026-27, whereas the amount of Rs. 7,843.57 Crore submitted in the present Rolling Transmission Plan represents the aggregate approved/estimated capital cost of schemes planned for FY 2026-27 and

is, therefore, not directly comparable with the annual ARR capital expenditure. The Commission is satisfied with the explanation furnished by the Petitioner regarding the variation between the ARR filing and the Rolling Transmission Plan and notes that the same arises due to the difference in the scope and purpose of the two submissions.

Query No.17: The Petitioner was required to submit detailed justification for the variations in the planned transmission network under its STU plans for the periods FY 2025-26 to FY 2029-30 and FY 2026-27 to FY 2030-31. Specifically, for the overlapping years, the Petitioner shall clearly explain the reasons for any additions or reductions in substation capacity and transmission line length across all voltage levels.

Response submitted by Petitioner: The Petitioner submitted the justification for the variations in the planned transmission network under the STU Rolling Transmission Plans for FY 2025-26 to FY 2029-30 and FY 2026-27 to FY 2030-31, and the same has been enclosed as Annexure-6. The Petitioner further submitted that the status of the Rolling Transmission Plan FY 2025-26 to FY 2029-30 and the list of new substations energized during FY 2025-26 are provided below:

Table 41: Status of Transmission Schemes under RTP FY 2025-30 vis-à-vis RTP FY 2026-31 (Energized, Rolled Over, Dropped and Retained Schemes)

Year	No. of S/s as per Previous Plan FY 2025-30	Dropped S/s	Deferred S/s to Subsequent Years	Net S/s to be Commissioned during the Year	Rollover S/s from earlier Years	New Planned S/s	Total No. of S/s Submitted for STU FY 2026-31
	A	B	C	D=A-B-C	E	F	G=D+E+F
2025-26	30	0	10	20	0	0	0
2026-27	22	3	16	3	9	6	18
2027-28	23	12	5	6	18	17	41
2028-29	19	4	12	3	5	20	28
2029-30	24	5	9	10	10	12	32
2030-31	–	–	–	–	10	8	18
Total	**118**	**24**	**52**	**42**	**52**	**63**	**137**

Table 42: List of new Substations energised in FY 2025-26

Sr. No.	Voltage (kV)	Zone	Name	Remark	Energisation Date
1	132	West	132 kV Budhana-II	RTP FY 2025-30 in FY 2024-25	20.05.2025
2	132	Central	132 kV Newajganj	RTP FY 2025-30 in FY 2024-25	25.07.2025
3	132	North-East	132 kV Bhagwanpur	RTP FY 2025-30 in FY 2024-25	31.07.2025
4	132	South-Central	132 kV Kudhaud (GEC-II)	RTP FY 2025-30 in FY 2025-26	11.09.2025

Sr. No.	Voltage (kV)	Zone	Name	Remark	Energisation Date
5	132	South-Central	132 kV Kadaura (GEC-II)	RTP FY 2025-30 in FY 2025-26	23.09.2025
6	132	South-Central	132 kV Gohand (GEC-II)	RTP FY 2025-30 in FY 2025-26	30.09.2025
7	400	West	400 kV Metro Depot GIS	RTP FY 2025-30 in FY 2025-26	01.11.2025
8	220	Central	220 kV GIS Transganga City	RTP FY 2025-30 in FY 2024-25	26.12.2025
9	132	South-West	132 kV Farih	RTP FY 2025-30 in FY 2024-25	30.12.2025
10	220	West	220 kV Mawana (GIS)	RTP FY 2025-30 in FY 2025-26	11.11.2026
11	132	West	132 kV Dhaulana	RTP FY 2025-30 in FY 2025-26	28.11.2026
12	400	Central	400 kV Gonda (TBCB)	Energised from LV Side Dt. 13.09.2017	27.02.2026
13	400	South-Central	400 kV Maheba (GEC-II)	RTP FY 2025-30 in FY 2025-26	28.02.2026
14	132	South-Central	132 kV Muskara (GEC-II)	RTP FY 2025-30 in FY 2025-26	01.03.2026
15	400	South-Central	400 kV Garautha (GEC-II)	RTP FY 2025-30 in FY 2025-26	18.03.2026

Commission's Observation:

The Commission notes that the Petitioner has submitted the justification for variations in the planned transmission network between the Rolling Transmission Plans for FY 2025-26 to FY 2029-30 and FY 2026-27 to FY 2030-31. The Commission further notes from Table 41 that, against the 118 substations envisaged under the previous Rolling Transmission Plan, 24 substations have been dropped and 52 substations have been deferred to subsequent years. Consequently, only 42 substations were envisaged for commissioning during the corresponding plan period. The Commission also notes that 52 substations have been rolled over from earlier years and 63 new substations have been proposed under the current Rolling Transmission Plan, resulting in a total of 137 substations being planned for FY 2026-27 to FY 2030-31.

The Commission observes that a significant number of substations have been deferred or rolled over to subsequent years, indicating continued slippages in the implementation of planned transmission infrastructure. At the same time, a substantial number of new substations have been added under the revised plan, reflecting changing system requirements and network expansion needs. Therefore, the Petitioner shall ensure rigorous monitoring of the progress of deferred and rolled-over schemes, identify implementation bottlenecks in a timely manner, and take all necessary

measures to achieve the planned commissioning schedule so as to ensure the adequacy and reliability of the State transmission network.

Query No.18: The Petitioner has proposed certain elements under the Regulated Tariff Mechanism (RTM) mode, despite their voltage level being 220 kV and above. However, as per Clause 6.1 of the UPERC (Modalities of Tariff Determination) Regulations, 2023, all new greenfield intra-State transmission projects of 220 kV and above that are part of the STU Transmission Plan are required to be implemented through Tariff Based Competitive Bidding (TBCB).

In view of the above provision, the Petitioner was required to justify the adoption of RTM mode for the following elements:

Table 43: List of Elements adopted in RTM Mode

Sr. No.	Name of Element	Voltage Level	Year	District	Mode of Ex.
1.	400/220/132kV 2x500+2x160 MVA GIS Sirsira	400 kV	FY 2027-28	Raebareliy	RTM
2.	765/400 kV 2x1500 MVA Mirzapur (Pooling Point)	765 kV	FY 2029-30	Mirzapur	RTM

Response submitted by Petitioner: The Petitioner submitted that the UPERC (Multi-Year Tariff for Distribution and Transmission) Regulations, 2019 were notified on 23.09.2019 and, in terms of Regulation 32.2 thereof, prior approval of the Commission is required only for schemes having a project cost exceeding Rs. 20 Crores. In this regard, the Petitioner submitted that the 400 kV Sirsira Substation scheme had already been approved in TWC 12/45th dated 26.12.2016, i.e., prior to the notification of the MYT Regulations, 2019. The Petitioner further submitted that the said scheme was also approved by the Commission in the Business Plan for FY 2020-21 to FY 2024-25 vide Order dated 15.10.2020.

With respect to the proposed 765 kV Mirzapur (Pooling Station), the Petitioner submitted that, considering the coordination requirements among multiple transmission licensees and the associated contractual, operational, cost-related and future expansion challenges under the TBCB framework, the scheme is proposed to be developed under the RTM mode. The Petitioner submitted that the proposed transmission system is of strategic importance for ensuring grid reliability, facilitating future network

expansion and enabling power evacuation from upcoming thermal and Pumped Storage Projects in the region. The Petitioner further submitted that, in accordance with Clause 6.1(a) of the Modalities of Tariff Regulation for Intra-State Transmission Projects of Strategic Importance, the proposal for establishment of the 765 kV Mirzapur Pooling Substation under the RTM mode has been submitted before the Commission for approval under the Investment Approval for Q2 to Q4 of FY 2025-26.

The summary of the network proposed under the 765 kV Mirzapur (Pooling Station) scheme is provided in the table below:

Table 44: Summary of the network proposed under the 765 kV Mirzapur (Pooling Station) scheme

Sr. No.	Name of Substation	Mode of Execution	Approved Cost (GST included) (Rs. in Cr.)
1	765/400 kV 4x1500 MVA AIS Mirzapur Pooling S/s in RTM	RTM	1,133.70
2	765kV Bays (2 Nos) at 765 kV Bara S/s	RTM	182.21
3	400 kV Mirzapur Pooling S/s (765)- Sahupuri (Quad Moose) DC Line- 68 km	TBCB	399.92
4	765kV Bara- Mirzapur Pooling S/s DC Line- 107 km	TBCB	942.51
5	400 kV Mirzapur Pooling S/s (765)- Mirzapur Thermal Energy (Quad Moose) DC Line- 18.5 km	TBCB	141.13
		Total	**2,799.47**

Additional details for Evacuation of 5600MW Thermal Power, 1500 MW JSW(PSP), 1250 MW Adani Saur Urja (PSP) & 2x800 MW Mirzapur Thermal Energy (Adani) :-

The Petitioner has submitted that the objective of the proposed transmission network is to facilitate evacuation of power from upcoming thermal and pumped storage generation projects in the State. In this regard, the Petitioner has identified the following major generation projects:

Thermal Power Projects

- Meja-II (JV of NTPC & UPRVUNL) – 3×800 MW (COD: March 2031)
- Anpara-E (JV of NTPC & UPRVUNL) – 2×800 MW (coal linkage awaited)
- Obra-D (JV of NTPC & UPRVUNL) – 2×800 MW (coal linkage awaited)
- M/s Mirzapur Thermal Energy (UP) Pvt. Ltd. – 2×800 MW (COD: March 2029)

Pumped Storage Projects

- M/s Adani Saur Urja (KA) Ltd., Panwara, Robertsganj – 1,250 MW (COD: March 2030)
- JSW Neo Energy Pvt. Ltd., Kadhaura, Robertsganj – 1,500 MW (COD: September 2029)
- Rihand PSP (JV of THDC & UPRVUNL) – 900 MW

The Petitioner has further submitted that the proposed transmission network has been planned in accordance with the approvals accorded by the Central Electricity Authority (CEA), vide approval dated 12.05.2025, approved the integrated transmission system for evacuation of power from 5,600 MW thermal capacity comprising Anpara-E (2×800 MW), Obra-D (2×800 MW) and Meja-II (3×800 MW), along with 900 MW PSP capacity and 600 MW Floating Solar Projects (FSPs).

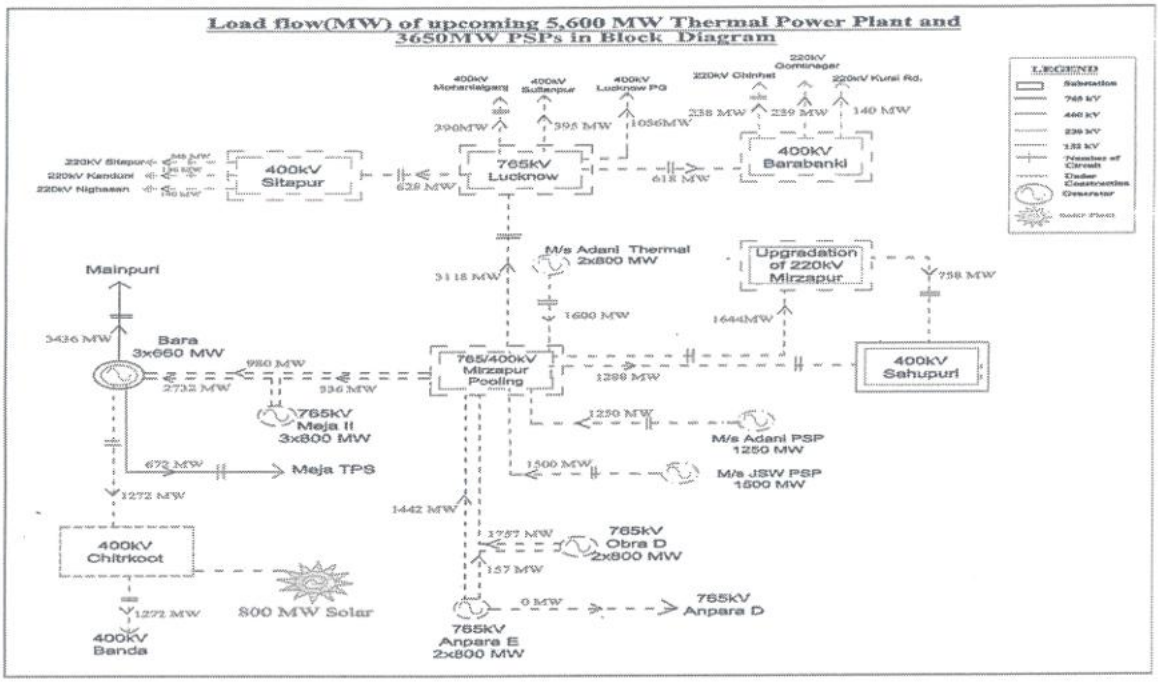
The Petitioner has also submitted that CEA, vide approval dated 19.09.2025, accorded approval for evacuation of 4,600 MW Solar Power and 3,650 MW PSP capacity under the GEC-III Scheme, in addition to the transmission system approved earlier.

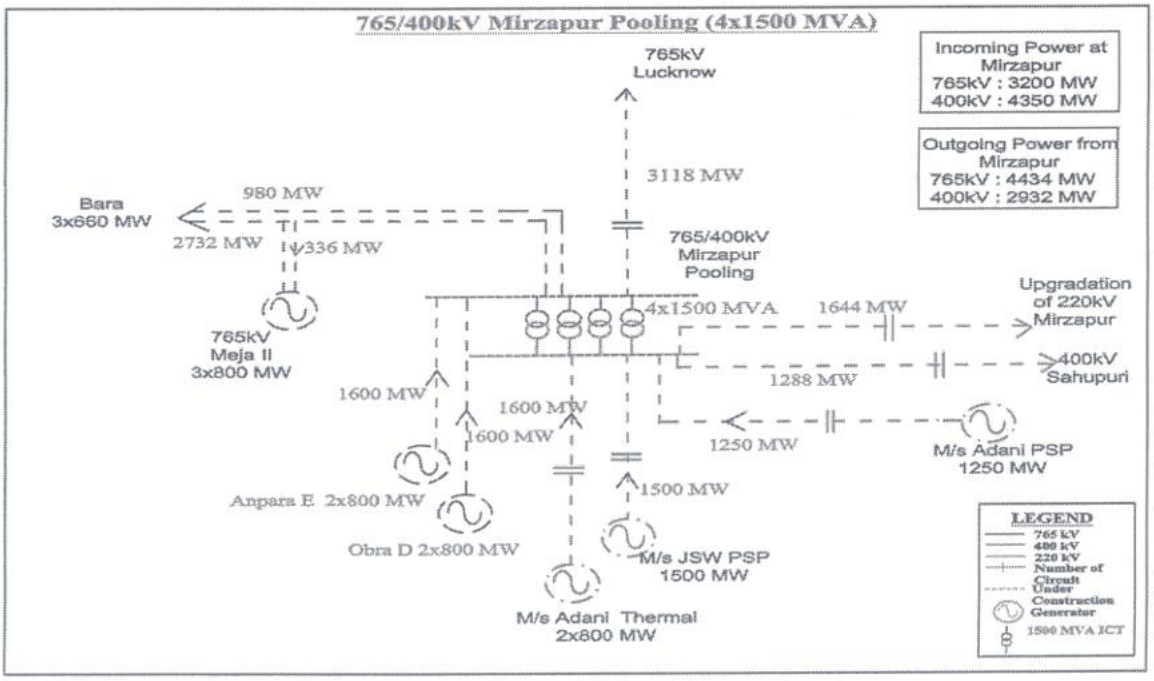
COD of upcoming PSP's and Thermal Power Stations

Table 45: Commissioning date of upcoming PSP and Thermal Power Stations

Sl. No.	Name of the Plant	Mode of Generation	Quantum	PSA Date	COD
1	M/s Adani Saur Urja (KA) Ltd., Panwara (Robertsganj)	PSPs	1,250 MW	23.04.2025	Mar-2030
2	JSW Neo Energy Pvt. Ltd., Kadhaura, Robertsganj	PSPs	1,500 MW	30.04.2025	Sep-2029
3	M/s Mirzapur Thermal Energy (UP) Pvt. Ltd., Dadro Khurd, Mirzapur (2×800 MW TPP)	Thermal Power	1,500 MW	16.05.2025	Mar-2029

Single Line Diagram of Load flow:





Commission's Observation:

The Commission notes the submission of the Petitioner that the 400 kV Sirsira Substation scheme was approved by the Transmission Works Committee (TWC) in its 45th meeting held on 26.12.2016, i.e., prior to the notification of the UPERC (Multi-Year Tariff for Distribution and Transmission) Regulations, 2019. The Commission also notes that the said scheme was subsequently considered and approved as part of the Business Plan for FY 2020-21 to FY 2024-25 vide Order dated 15.10.2020. In view

of the above, the proposed implementation of the 400 kV Sirsira Substation under RTM mode pertains to a scheme which had already received requisite planning and regulatory approvals prior to the coming into force of the aforesaid Regulations.

The Commission further notes the submission of the Petitioner that the State Government, vide letter dated 18.05.2026, has proposed to provide equity support under the GEC-III scheme for implementation of the project. The Petitioner has also submitted that, in the event of any delay in commissioning of the proposed 765 kV Mirzapur Pooling Substation, an interim arrangement has been envisaged for providing connectivity to M/s Mirzapur Thermal Energy (UP) Pvt. Ltd. through the existing 400 kV Sahupuri Substation, subject to review by the CEA/RPC based on the actual commissioning schedule of the generating station, implementation status of the transmission system and prevailing grid conditions.

However, the Commission observes that, in terms of the UPERC (Modalities of Tariff Determination) Regulations, 2023, new greenfield intra-State transmission projects of 220 kV and above are generally required to be implemented through the TBCB route. While the Petitioner has submitted that the proposed 765 kV Mirzapur Pooling Substation is of strategic importance and has sought approval under the applicable provisions for projects of strategic importance, the Commission notes that the proposal for implementation of the scheme under RTM mode has already been submitted for approval under the Investment Approval/Capex Plan and that the Petitioner has also placed on record the State Government's approval in subject Petition.

Additional Submission:

The Petitioner, along with its response to the queries, submitted that the following transmission assets, which have already been approved by the Transmission Works Committee (TWC), may also be considered as part of the Rolling Transmission Plan for FY 2026-27 to FY 2030-31. The Petitioner submitted that certain substations are required to be included based on requests received under the Deposit Works mode, while a few schemes were inadvertently omitted from the earlier submission. Accordingly, the Petitioner requested that the said transmission assets be incorporated in

the Rolling Transmission Plan. The details of such schemes are provided in the table below:

Table 46:Details of Transmission Assets

S. No.	Zone	District	Type of Project	Details of Projects	Cost (Rs. in Cr.)
1	TW	Moradabad	New Work	Construction of 132/33 (AIS) S/s Swar along with 132kV Tanda (Proposed 220)-Swar DC Line	59.33
2	TC	Pilibhit	Deposit Work (UPSIDA)	Construction of 132kV UPSIDA S/s Bhara Pachpera, Amariya Philippi along with 132kV D/C Amariya-Bhara Pachpera line	165.9
3	TC	Hardoi	Deposit Work (UPEIDA)	Construction of 132/33kV, 2x40 MVA AIS S/s IMLC Kaushiya Sarain, Hardoi for construction LILO of 132 kV Ajijpur-Shrimau CKT-I at 132 kV S/s IMLC, Kaushiya (Overhead)	54.99
4	TC	Bahraich	Deposit Work (M/s Sudesh Indust.)	Construction of 132kV Bahraich(220KV)-M/S Sudesh Industries single circuit Line on DC tower alongwith 01 No bay at 220/132kV Bahraich S/s	24.42
5	TW	Gautam Buddh Nagar	Deposit Work (Noida Authority)	Construction of 220/132/33 kV GIS S/s Sec-155 Noida (2x160 MVA 220/132 kV +3x63 MVA 132/33kV & Associated lines	203.60
6	TW	Meerut	Deposit Work (UPEIDA)	Construction of 132kV, 1x63+1x40 MVA IMLC, Meerut S/s alongwith 132kV Partapur, Jagriti Vihar(220)-IMLC DC Line-12KM	81.28
7	TC	Lucknow	Strengthening	LILO of 220 kV Sarojini Nagar- Gomti Nagar line at 220 kV Sultanpur Road S/s for electrification of 220 kV Sultanpur Road S/s at 220 kV level	34.70
8	TW	Noida	Strengthening	Replacement of Zebra/Deer conductor by HTLS conductor on 220kV Khurja-Dadri D/C line (Length-51 Km).	23.57
9	TC	Bareilly	Strengthening	220/132kV Swichyard (2x160MVA) along with associated 132kV LILO lines by extension of existing 220kV Switchyard at 400kV Bareilly S/s	87.43
10	TC	Lucknow	Increasing Capacity	Increasing capacity of 220/132 kV S/s Kursi Road from 2x160+1x200 MVA to 3x160+1x200 MVA	22.84
11	TC	Raibareily	Increasing Capacity	Increasing Capacity of 220kV Bachrawan 2x160+3x160 MVA	21.00
12	TSW	Agra	Depsoit	Construction of 220/33kV 2x60 MVA Agra	180.00

Commission's Observation:

The Commission has examined the submission of the Petitioner regarding inclusion of the above 12 transmission assets in the Rolling Transmission Plan for FY 2026-27 to FY 2030-31. The Commission notes that a majority of the proposed schemes pertain to Deposit Works undertaken on the basis of requests received from various agencies and consumers, for which

specific approval of the Commission is not required under the applicable regulatory framework, since the cost of such works is to be borne by the concerned beneficiary. The Commission further notes that the remaining schemes have already been considered and approved by the Transmission Works Committee (TWC), and certain assets were omitted from the original submission inadvertently. Accordingly, the Commission allows inclusion of the above 12 transmission assets in the Rolling Transmission Plan for FY 2026-27 to FY 2030-31.

Hearing dated 21.07.2026

28. The Commission heard the matter on 21.07.2026 and during the hearing, Sh. Satyendra Kumar, CE appearing on behalf of STU/UPPTCL submitted that the instant Petition was filed in compliance of Regulation 5.2 of UPERC (Modalities of Tariff Determination) Regulations, 2023, for approval of Five-Year STU Transmission Plan of the State for period of FY 2026-27 to FY 2030-31.

29. The Commission, during the hearing, sought clarifications on the following issues. The submissions made by the Petitioner and the Commission's observations thereon are discussed below:

Query No. 1

The Commission directs that, while presenting the STU Rolling Transmission Plan before the Commission, UPPTCL shall ensure the presence of an officer not below the rank of Director to assist the Commission and address policy, planning and implementation-related issues pertaining to the transmission network.

Petitioner's response:

In response to the observations of the Commission, Sh. Satyendra Kumar, Chief Engineer (Planning), UPPTCL submitted that UPPTCL shall ensure the presence of an officer not below the rank of Director during the proceedings relating to the STU Rolling Transmission Plan before the Commission. Sh. Satyendra Kumar assured compliance of the directions in future hearings.

Query No. 2

The Petitioner was required to justify the adoption of RTM mode for the proposed 765 kV Mirzapur Pooling Substation, despite the provision under

the applicable regulations requiring implementation of new 220 kV and above greenfield intra-State transmission projects through the TBCB route. The Petitioner was further required to demonstrate the strategic importance of the project, furnish the approvals of the competent authority/Government supporting its execution under RTM mode, and clarify the basis for considering the project as a strategic transmission asset. Further, considering that UPPTCL has not developed a new 765 kV substation in recent years, the Petitioner was required to submit its assessment regarding execution capability, project implementation strategy, and the contingency plan in case the development of the pooling station is not synchronized with the commissioning schedule of the associated thermal and pumped storage generation projects.

Petitioner's response:

Sh. Satyendra Kumar, Chief Engineer (Planning), UPPTCL submitted that the proposed 765/400 kV Mirzapur Pooling Substation is of strategic importance as it has been planned as a common pooling node for evacuation of power from upcoming thermal generating stations and pumped storage projects in the State, including Meja-II (3×800 MW), Anpara-E (2×800 MW), Obra-D (2×800 MW), Mirzapur Thermal Energy (2×800 MW), Adani Saur Urja PSP (1,250 MW), JSW Neo Energy PSP (1,500 MW) and Rihand PSP (900 MW). Accordingly, the project qualifies for implementation under the RTM framework in terms of Clause 6.1(a) of the UPERC (Modalities of Tariff Determination) Regulations, 2023 relating to transmission projects of strategic importance.

Sh. Satyendra Kumar further submitted that, as per the Government of Uttar Pradesh letter dated 18.05.2026, the State Government shall provide 20% equity support under GEC-III for the scheme. In case the project is not approved under GEC-III within the stipulated timeline, the State Government shall provide 30% equity contribution and the project shall be financed on a 70:30 debt-equity basis.

With regard to project implementation risk, Sh. Satyendra Kumar submitted that, in event of any delay in commissioning of the 765 kV Mirzapur Pooling Substation, UPPTCL has proposed an interim arrangement for providing connectivity to M/s Mirzapur Thermal Energy (UP) Pvt. Ltd.

(2×800 MW) through the existing 400 kV Sahupuri Substation. It was further submitted that the requirement of such interim arrangement shall be reviewed by CEA/RPC based on the actual commissioning schedule of the generating station, implementation status of the Mirzapur Pooling Substation and prevailing grid conditions, and that UPPTCL shall undertake the necessary augmentation of the associated intra-State transmission system.

Commission's View

The Commission notes that the proposed approach is aimed at ensuring coordinated development of the Mirzapur Pooling Substation and the associated transmission system, thereby minimizing implementation risks and avoiding potential disputes that may arise due to involvement of multiple transmission developers under different execution frameworks. The Commission also takes note of the interim connectivity arrangement proposed through the existing 400 kV Sahupuri Substation in event of any delay in commissioning of the Mirzapur Pooling Substation. The Petitioner shall ensure timely implementation of the scheme and keep the Commission informed regarding the progress of the project and associated transmission system augmentation works. Further, the Petitioner shall undertake timely procurement of equipment and award of contracts for works and services in a manner that ensures commissioning of the transmission system remains aligned with the scheduled commissioning dates of the generating stations as envisaged under the respective Power Purchase Agreements (PPAs).

Query No. 3

The Petitioner has not demonstrated the adequacy of the downstream transmission network for transfer and absorption power from proposed 765/400 kV Mirzapur Pooling Substation has been planned for evacuation of power from upcoming thermal and pumped storage projects aggregating to around 9,250 MW beyond the proposed pooling arrangements.

Accordingly, the Petitioner is directed to submit the results of detailed load flow studies at 765 kV, 400 kV, 220 kV and 132 kV levels, indicating the power flow pattern, downstream evacuation corridors, system constraints, loading on transmission elements and the augmentation measures

required for reliable transfer of the proposed generation capacity under normal and contingency conditions. Further, the Petitioner shall specify the quantum of power proposed to be absorbed through various downstream nodes and the timeline for the associated transmission strengthening works.

Petitioner's response:

The Petitioner has submitted that the downstream 400 kV, 220 kV and 132 kV network associated with the proposed 765 kV Mirzapur Pooling Substation has already been examined through detailed load flow studies and forms part of the evacuation scheme approved by CEA. The Petitioner further submitted that the proposed transmission system is adequate for reliable evacuation and absorption of the planned generation capacity.

Commission's View

The Commission notes the submission of the Petitioner that detailed system studies for evacuation and downstream transmission strengthening associated with the proposed generation projects have already been carried out and the transmission scheme has been approved by the CEA. However, considering that the proposed transmission system is envisaged to facilitate evacuation of a substantial quantum of thermal and pumped storage generation capacity through the Mirzapur Pooling Station, the Petitioner is directed to furnish, in its subsequent filing, the key findings of the load flow studies carried out for the downstream 400 kV, 220 kV and 132 kV network, including the adequacy of the downstream transmission corridors, identified constraints, if any, and the network augmentation measures proposed for reliable absorption and transfer of power under normal and contingency conditions.

Query No. 4

Considering that the proposed 765/400 kV Mirzapur Pooling Substation is planned to be established in an area having predominantly rocky terrain project and the importance of adequate grounding arrangements for safe and reliable operation of the substation, the Petitioner is directed to undertake earth resistance measurements and geotechnical assessment at the finalized project site. The Petitioner shall also examine the requirement of any special grounding measures, if necessary, and submit the findings

thereof to the Commission.

Petitioner's response:

The Petitioner submitted that the observation of the Commission has merit and would be useful for ensuring safe and reliable operation of the proposed substation. The Petitioner further submitted that earth resistance measurements and necessary site assessments shall be undertaken at the finalized land for the proposed 765/400 kV Mirzapur Pooling Substation and the findings thereof shall be considered during detailed engineering and implementation of the project.

Commission's View

The Commission takes note of the submission of the Petitioner and its willingness to undertake the suggested assessment. Considering the rocky nature of the terrain identified for development of the proposed Mirzapur Pooling Substation, the Commission is of the view that adequate evaluation of soil resistivity and earth resistance characteristics is necessary from the perspective of system safety, grounding design and long-term operational reliability. Accordingly, the Petitioner shall conduct the requisite earth resistance measurements at the project site and ensure that the grounding system is designed considering the site-specific characteristics. The salient findings and proposed mitigation measures, if any, shall be submitted along with the subsequent progress report filed before the Commission.

Additional Directions: -

30. Besides above, the Commission has comprehensively considered oral as well as written submission/replies submitted by the Petitioner. In this regard, following directions are issued to the Petitioner for compliance:

(i) The Petitioner shall ensure the compliance of mitigation plan submitted for relieving the overloading of Substations and transmission elements.

(ii) The total reactive compensation of 2,961 MVAr proposed by the Petitioner for the intra-State transmission system up to FY 2030-31, comprising 1,130 MVAr of shunt capacitors at 33 kV and 132 kV voltage levels and 1,831 MVAr of reactors at 400 kV and 765 kV

voltage levels, shall become an integral part of the STU Transmission Plan.

(iii) Further, the Petitioner shall, in future, include in STU Transmission Plan the requirement of reactive power for Five-Year period along with STU's work plan/timelines for meeting the same.

(iv) It is observed that there are projects/schemes under STU Transmission Plan, which are not yet approved by STU-Transmission Works Committee (STU-TWC). Therefore, the Petitioner in future shall ensure that the projects/schemes shall be approved under STU-TWC prior to its inclusion in STU Transmission Plan.

(v) The Petitioner shall ensure that schemes should have provision of sufficient land space at proposed substation/switchyard for its future extension, if any, for installation of transformers for capacity enhancement along with transformer bays, and additional feeder bays for upcoming upstream/ downstream network to meet the future load requirement.

(vi) It is observed that the approval of the TWC, BOD, Appraisal Committee and ETF are not obtained in timely manner. It is noted that approval of certain schemes are taken neck to neck viz-a-viz implementation/execution on period of the schemes. Accordingly, all approval of schemes must be obtained well in advance and submitted before the Commission, otherwise it would be difficult to timely execute the scheme, such that there is no shortage of power on account of adequate transmission system network.

(vii) The projects planned to cater an urgent situation after approval of the STU Transmission Plan but before filing the next rolling Five-Year STU Transmission Plan, shall be submitted by the Petitioner along with justification/reasons that why these were not included in the earlier STU Transmission Plan. The Commission may consider to include the same in STU Transmission Plan, as considered deemed fit.

(viii) Implementation of augmentation/strengthening works at the intra-State transmission sub-station and /or line being part of the STU Transmission Plan shall be carried out in accordance with the Regulation 4 of the UPERC MYT for Transmission Regulation, 2025.

31. With above directions, the Commission approves the Five-Year STU Transmission Plan for FY 2026-27 to FY 2030-31 subject to all applicable approvals (like STU-TWC, Borad of Directors, Appraisal & Evaluation Committee, Energy Task Force) being obtained by the Petitioner before their implementation.

32. Accordingly, the Petition is disposed of.

(Griesh Kumar Vaish)	(Sanjay Kumar Singh)	(Arvind Kumar)
Member (Law)	**Member**	**Chairman**

Place: Lucknow
Dated: 16 .09.2026

Annexure-1
List of Planned Substation for FY 2026-27 to FY 2030-31

Substations Planned for FY 2026-27 in Rolling Transmission Plan FY 2026-27 to 2030-31

Sr. No.	Mode of Ex.	Zone	Voltage (kV)	District	Name of S/s	TWC	Estimated Cost (Rs. in Cr.)
1	RTM	TSE	132	Ghazipur	132/33 kV 2x40 MVA Ghazipur-II	14/20th	61.68
2	RTM	TSW	132	Firozabad	132/33 kV 2x40 MVA Sofipur (Double Main Transfer)	14/20th	45.53
3	TBCB	TSE	220	Fatehpur	220/132/33 kV 2x160+2x40 MVA Khaga	14/9th	180.29
4	TBCB	TSE	220	Varanasi	220/33 kV 2x60 MVA Varanasi Cantt	14/9th	191.14
5	TBCB	TSW	220	Kannauj	220/132/33 kV 2x160+2x63 MVA Tirwa	13/53th	109.84
6	TBCB	TW	220	Ghaziabad	220/33 kV 3x60 MVA Vasundhra	14/9th	122.09
7	TBCB	TW	400	Gautam Buddha Nagar	400/220/132 kV 2x500 MVA GIS Jewar	14/6th	220.18
8	Deposit	TC	132	Lucknow	132/33 kV 3x40 MVA Aturi, Malihabad (PM Mitra Textile Park)	6th FY 24-25	97.10
9	Deposit	TC	132	Unnao	132/33 kV 2x40 MVA Murtazanagar	2nd FY 25-26	65.61
10	Deposit	TSW	132	Kanpur Nagar	132/33 kV 2x40 MVA IIT Kanpur	1st FY 25-26	58.38
11	Deposit	TSW	220	Agra	220/33 kV 2x60 MVA GIS UPSIDA, Agra	2nd FY 25-26	133.16
12	Deposit	TW	132	Gautam Buddha Nagar	132/33 kV 2x63 MVA Sector-115-II	13/31th	60.00
13	Deposit	TW	220	Gautam Buddha Nagar	220/132, 220/33 kV 1x160+2x60 MVA GIS Sector-45	12/40th	123.90
14	RTM-GEC-II	TSC	220	Hamirpur	220/132/33 kV 2x160+2x40 MVA Hamirpur	14/1st	110.55
15	RTM-GEC-II	TSC	220	Lalitpur	220/132/33 kV 1x160+1x40 MVA Birdha	14/3rd	88.82
16	RTM-GEC-II	TSC	765	Lalitpur	765/400 kV 1x1500+2x500 MVA Talbehat	14/9th	1,453.03
17	RTM-GEC-II	TSW	400	Farrukhabad	400/220 kV 2x500+2x160 MVA Farrukhabad	14/9th	926.77
						Total	4,048.07

समादेष्टा नियामक
समादेश निदेशक (नियोजन एवं वाणिज्य)
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Substations Planned for FY 2027-28 in Rolling Transmission Plan FY 2026-27 to 2030-31

Sr. No.	Mode of Ex.	Zone	Voltage (kV)	District	Name of S/s	TWC	Estimated Cost (Rs. in Cr.)
1	RTM	TC	132	Bareilly	132/33 kV 2x63 MVA Ram Ganga Nagar Vihar	Awaited	70.15
2	RTM	TC	132	Raibareilly	132/33 kV 2x40 MVA Unchahar & Other shifting works	3rd FY 25-26	60.01
3	RTM	TC	132	Sitapur	132/33 kV 2x40 MVA Bhawanipur	Awaited	69.91
4	RTM	TC	132	Sultanpur	132/33 kV 2x40 MVA Asoga	Awaited	61.37
5	RTM	TC	220	Unnao	Up-gradation of 132/33 kV Kundan Road to 220 kV 2x160 MVA Level	Awaited	65.98
6	RTM	TC	400	Raibareilly	400/220/132 kV 2x500+2x160 MVA GIS Sirsira	12/45th	375.38
7	RTM	TNE	132	Deoria	132/33 kV 2x40 MVA Bhatparrani	Awaited	88.46
8	RTM	TNE	132	Deoria	132/33 kV 2x40 MVA Narayanpur	6th FY 25-26	53.40
9	RTM	TNE	132	Deoria	132/33 kV 2x40 MVA Barhaj	Awaited	88.46
10	RTM	TNE	132	Mau	132/33 kV 2x63 MVA Padarathpur (Madhavan)	6th FY 25-26	59.01
11	RTM	TNE	220	Deoria	Up-gradation of 132/33 kV Salempur to 220 kV 2x160 MVA Level	6th FY 25-26	130.38
12	RTM	TSC	132	Jhansi	132/33 kV 2x40 MVA Jhansi-II	7th FY 25-26	60.24
13	RTM	TSE	132	Varanasi	132/33 kV 2x40 MVA Belawa	Awaited	53.50
14	RTM	TSE	220	Prayagraj	Up-gradation of 132/33 kV Shankargarh to 220 kV 2x160 MVA Level	Awaited	137.41
15	RTM	TSW	132	Kanpur Dehat	132/33 kV 2x40 MVA Ghatampur-II	Awaited	50.00
16	RTM	TW	132	Bijnor	132/33 kV 2x40 MVA Swaheri	13/1st	21.27
17	RTM	TW	132	Meerut	132/33 kV 2x40 MVA Parikshitgarh	Awaited	71.79
18	RTM	TW	132	Moradabad	132/33 kV 2x40 MVA Dilari	Awaited	71.79
19	RTM	TW	132	Muzaffarnagar	132/33 KV 2x63 MVA AIS Sujroo	4th FY 25-26	73.96
20	RTM	TW	132	Sambhal	132/33 kV 2x40 MVA Bahjoi	12/14th	47.10
21	RTM	TW	220	Rampur	Up-gradation of 132/33 kV Tanda to 220/132/33 kV 2x160 MVA Level	Awaited	151.66
22	TBCB	TC	220	Barabanki	220/132/33 kV 2x160+2x40 MVA Shahpur	Awaited	167.87
23	TBCB	TC	220	Unnao	220/132 kV 2x160 MVA GIS Maurawa	Awaited	94.34
24	TBCB	TNE	220	Mau	220/132/33 kV 2x160+2x40 MVA Ranipur	14/20th	176.62
25	TBCB	TSE	220	Mirzapur	220/132/33 kV 2x160+2x40 MVA AIS Chunar	1st FY 25-26	135.53
26	Deposit	TC	132	Ayodhya	132/33 kV 2x40 MVA Awas Vikas Ayodhya	Awaited	58.00
27	Deposit	TC	132	Shahjahanpur	132/33 kV 2x40 MVA IMLC Shahjahanpur	Awaited	55.00
28	Deposit	TC	132	Badaun	132/33 kV 2x40 MVA IMLC Badaun	Awaited	50.00
29	Deposit	TC	132	Hardoi	132/33 kV 2x40 MVA IMLC Hardoi	Awaited	45.00

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समादेश निदेशक (नियोजन एवं वाणिज्य)

Sr. No.	Mode of Ex.	Zone	Voltage (kV)	District	Name of S/s	TWC	Estimated Cost (Rs. in Cr.)
30	Deposit	TC	132	Amethi	132/33 kV 2x40 MVA IMLC Amethi	Awaited	58.00
31	Deposit	TC	220	Lucknow	220 kV 2x160+4x63 MVA Mohan Road	14/2nd	117.75
32	Deposit	TSE	220	Prayagraj	220/33 kV 4x60 MVA GIS Saraswati Hitech City	7th FY 25-26	238.69
33	Deposit	TSW	132	Firozabad	132/33 kV 2x40 MVA IMLC Firozabad	Awaited	56.00
34	Deposit	TW	132	Amroha	132/33 kV 2x40 MVA IMLC Amroha	Awaited	52.00
35	Deposit	TW	220	Gautam Buddha Nagar	220/132/33 kV 2x160+2x63 MVA YEIDA Sector-28	14/3rd	140.73
36	Deposit	TW	220	Meerut	220/132/33 kV 2x160+2x40 MVA IMLC Meerut	Awaited	98.00
37	Deposit	TW	220	Sambhal	220/132/33 kV 2x160+2x40 MVA IMLC Sambhal	Awaited	111.00
38	RTM-GEC-II	TSC	400	Chitrakoot	400 kV 2x500 MVA Chitrakoot	14/13th	619.90
						Total	4,135.63

संयोजन अभियन्ता
समूह निदेशक (नियोजन एवं अभियो)
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Substations Planned for FY 2028-29 in Rolling Transmission Plan FY 2026-27 to 2030-31

Sr. No.	Mode of Ex.	Zone	Voltage (kV)	District	Name of S/s	TWC	Estimated Cost (Rs. in Cr.)
1	RTM	TC	220	Ambedkar nagar	Up-gradation of 132/33 kV Akbarpur to 220 kV 2x160 MVA Level	Awaited	84.00
2	RTM	TC	220	Bahraich	Up-gradation of 132/33 kV Nanpara to 220 kV 2x160 MVA Level	Awaited	215.69
3	RTM	TC	220	Bareilly	Creation of 132 kV level on 400/220 kV Bareilly 2x160 MVA	Awaited	105.00
4	RTM	TC	220	Budaun	Up-gradation of 132/33 kV Bisauli to 220 kV 2x160 MVA Level	Awaited	140.95
5	RTM	TC	220	Hardoi	Up-gradation of 132/33 kV Sandila to 220 kV 2x160 MVA Level	Awaited	90.00
6	RTM	TC	220	Amethi	Up-gradation of 132/33 kV Jagdishpur to 220 kV 2x160 MVA Level	Awaited	85.00
7	RTM	TNE	132	Kushinagar	132/33 kV 2x40 MVA Kasia-II	Awaited	67.00
8	RTM	TNE	220	Gorakhpur	Up-gradation of 132/33 kV Shatrughanpur to 220 kV 2x160 MVA Level	Awaited	115.00
9	RTM	TSE	220	Prayagraj	Up-gradation of 132/33 kV Saraon to 220 kV 2x160 MVA Level	Awaited	56.23
10	RTM	TW	220	Bulandshahar	Up-gradation of 132/33 kV Lakhauti to 220 kV 2x160 MVA Level	Awaited	112.00
11	RTM	TW	220	Rampur	Creation of 132 kV level on 765/400/220 kV Rampur 2x160 MVA	Awaited	110.00
12	TBCB	TC	400	Lucknow	400/220 kV 2x500 MVA Varun Vihar	Awaited	580.00
13	TBCB	TC	400	Lucknow	400/220 kV 2x500 MVA IT City	Awaited	620.00
14	TBCB	TSE	220	Chandauli	220/132/33 kV 2x160+2x40 MVA Amra	Awaited	167.75
15	TBCB	TSE	220	Jaunpur	220/132/33 kV 2x160+2x40 MVA Jaunpur-II	Awaited	120.96
16	TBCB	TSW	220	Agra	200/132/33 kV 2x160+2x40 MVA Agra-II	Awaited	133.72
17	TBCB	TSW	220	Mainpuri	220/132 kV 2x160 MVA Mainpuri-II	Awaited	99.54
18	TBCB	TW	400	Gautam Buddha Nagar	400 kV 3x500 MVA YEIDA Sector-28 with 125 MVAR Bus Reactor	1st FY 25-26	629.34
19	Deposit	TC	220	Barabanki	220/132/33 kV 2x160+2x40 MVA IMLC Barabanki	Awaited	108.00
20	Deposit	TC	220	Bareilly	220/33 kV 2x60 MVA Greator Bareilly (BDA)	Awaited	108.00
21	Deposit	TC	220	Lucknow	220/132/33 kV 2x200+2x63 MVA Naimish Nagar	Awaited	94.00
22	Deposit	TC	220	Lucknow	220/132/33 kV 2x200+2x63 MVA Varun Vihar-I	Awaited	128.00
23	Deposit	TC	220	Lucknow	220/132/33 kV 2x200+2x63 MVA Varun Vihar-II	Awaited	142.00
24	Deposit	TC	220	Lucknow	220/132/33 kV 2x200+2x63 MVA IT City	Awaited	101.00
25	Deposit	TC	220	Lucknow	220/132/33 kV 2x200+2x63 MVA Wellness City	Awaited	101.00
26	Deposit	TC	220	Sultanpur	220/132/33 kV 2x160+2x40 MVA IMLC Sultanpur	Awaited	82.00
27	Deposit	TSE	400	Sonebhadra	400 kV GIS Switching S/s M/s Hindalco Renukoot	3rd FY 25-26	272.69
28	Deposit	TSW	220	Aligarh	220/132/33 kV 2x160+2x40 MVA Aligarh New	Awaited	149.00
						Total	4,817.87

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समूह निदेशक (नियोजन एवं अभियो)

Substations Planned for FY 2029-30 in Rolling Transmission Plan FY 2026-27 to 2030-31

Sr. No.	Mode of Ex.	Zone	Voltage (kV)	District	Name of S/s	TWC	Estimated Cost (Rs. in Cr.)
1	RTM	TC	220	Raibareilly	Up-gradation of 132/33 kV Dalmau to 220 kV 2x160 MVA Level	Awaited	95.08
2	RTM	TNE	220	Azamgarh	Up-gradation of 132 kV Atraulia to 220 kV 2x160 MVA Level	Awaited	156.52
3	RTM	TNE	765	Mirzapur	765/400 kV 2x1500 MVA Mirzapur (Pooling Point)	Awaited	1,980.91
4	RTM	TSE	400	Mirzapur	Up-gradation of 220 kV Mirzapur to 400 kV 2x500 MVA Level	Awaited	695.18
5	RTM	TSE	400	Prayagraj	Up-gradation of 220 kV Phoolpur to 400/220 kV 2x500 MVA Level	Awaited	1,000.00
6	RTM	TW	132	Meerut	132/33 kV 2x40 MVA Basti Town	Awaited	61.99
7	RTM	TW	132	Saharanpur	132/33 kV 2x40 MVA Chilkana	Awaited	61.91
8	RTM	TW	220	Bijnor	Extention of 400 kV Nehtaur to 220 kV 2x160 MVA Level	Awaited	90.61
9	RTM	TW	400	Gautam Buddha Nagar	Up-gradation of 200 kV Knowledge Park to 400 kV 2x500 MVA Level	Awaited	630.00
10	RTM	TW	765	Gautam Buddha Nagar	Up-gradation of 400 kV Sector-148 to 765 kV 2x1500 Level	Awaited	800.00
11	TBCB	TC	400	Barabanki	400/220 kV 2x500+2x160 MVA Barabanki	Awaited	525.02
12	TBCB	TC	400	Lucknow	400/220 kV 2x500 MVA Ansal API (IT City)	Awaited	603.00
13	TBCB	TC	400	Lucknow	400/220 kV 2x500 MVA Sultanpur Road	Awaited	511.39
14	TBCB	TC	400	Sitapur	400/220 kV 2x500+2x160 MVA Sitapur	Awaited	1,182.69
15	TBCB	TC	765	Lucknow	765/400 kV 2x1500 MVA Sultanpur Road	Awaited	2,609.38
16	TBCB	TSW	400	Kanpur Nagar	400/220/132 kV 2x500+2x160 MVA Panki-II	Awaited	615.59
17	TBCB	TW	220	Aligarh	220/132/33 kV 2x160+2x40 MVA Khair-II	Awaited	165.00
18	TBCB	TW	220	Bijnor	220/132/33 kV 2x160+2x40 MVA Tajpur-II	Awaited	184.00
19	TBCB	TW	220	Moradabad	220/132/33 kV 2x160+2x40 MVA Moradabad-II	Awaited	138.05
20	Deposit	TC	132	Ambedkar nagar	132/33 kV 2x40 MVA IMLC Ambedkar Nagar	Awaited	59.80
21	Deposit	TC	132	Ambedkar nagar	132/33 kV 2x40 MVA IMLC Ambedkar Nagar (Link Exp.)	Awaited	49.00
22	Deposit	TNE	400	Gorakhpur	400/220 kV 2x500 MVA IMLC Gorakhpur	Awaited	413.00
23	Deposit	TSC	132	Hamirpur	132/33 kV 2x40 MVA IMLC Hamirpur	Awaited	67.00
24	Deposit	TSC	132	Mahoba	132/33 kV 2x40 MVA IMLC Mahoba	Awaited	58.00
25	Deposit	TSC	220	Banda	220/132/33 kV 2x160+2x40 MVA IMLC Banda	Awaited	101.40
26	Deposit	TSE	132	Ghazipur	132/33 kV 2x40 MVA IMLC Ghazipur	Awaited	56.20
27	Deposit	TSW	132	Auraiya	132/33 kV 2x40 MVA IMLC Auraiya	Awaited	52.60
28	Deposit	TW	132	Hapur	132/33 kV 2x40 MVA IMLC Hapur	Awaited	49.00
29	Deposit	TW	220	Gautam Buddha Nagar	220/132 kV 2x160 MVA Builder Area (Greater Noida)	Awaited	113.90

Sr. No.	Mode of Ex.	Zone	Voltage (kV)	District	Name of S/s	TWC	Estimated Cost (Rs. in Cr.)
30	Deposit	TW	220	Gautam Buddha Nagar	220/132 kV 2x160 MVA Ecotech (Greater Noida)	Awaited	95.14
31	Deposit	TW	220	Gautam Buddha Nagar	220/132 kV 2x160 MVA Sector-2 (Greater Noida)	Awaited	113.90
32	Deposit	TW	220	Gautam Buddha Nagar	220/132/33 kV 2x160+2x40 MVA Birondi (Greater Noida)	Awaited	142.74
						Total	13,477.99

Substations Planned for FY 2030-31 in Rolling Transmission Plan FY 2026-27 to 2030-31

Sr. No.	Mode of Ex.	Zone	Voltage (kV)	District	Name of S/s	TWC	Estimated Cost (Rs. in Cr.)
1	RTM	TC	132	Unnao	132/33 kV 2x63 MVA Ajgain	Awaited	75.00
2	RTM	TC	132	Unnao	Creation of 132/33 kV 2x40 MVA Level at Dahi Chowki 220/33 kV 2x60 MVA	Awaited	52.95
3	RTM	TC	400	Bahraich	Up-gradation of 220 kV Bahraich to 400 kV 2x500 MVA Level	Awaited	720.00
4	RTM	TSE	400	Sonebhadra	Up-gradation of 220 kV Robertsganj to 400/220 kV 2x500 MVA Level	Awaited	392.23
5	RTM	TSW	132	Kanpur Dehat	132/33 kV 2x40 MVA Shivali	Awaited	71.04
6	TBCB	TC	220	Barabanki	220/132/33 kV 2x160+2x40 MVA Haidergarh	Awaited	194.33
7	TBCB	TC	220	Gonda	220/132/33 kV 2x160+2x40 MVA Colonelganj-II	Awaited	175.57
8	TBCB	TC	220	Shahjahanpur	220/132/33 kV 2x160+2x40 MVA Powayan	Awaited	184.95
9	TBCB	TC	220	Unnao	220/132/33 kV 2x160+2x40 MVA Chakalbanshi	Awaited	175.57
10	TBCB	TSE	220	Jaunpur	220/132/33 kV 2x160+2x40 MVA Shahganj	Awaited	184.00
11	TBCB	TSE	400	Ghazipur	400 kV 2x500 MVA Ghazipur	Awaited	724.12
12	TBCB	TSW	400	Etawah	400/220 kV 2x500+2x160 MVA Bharthana	Awaited	517.36
13	TBCB	TW	220	Meerut	220/33 kV 3x60 MVA Meerut By Pass	Awaited	215.36
14	Deposit	TC	132	Raibareilly	132/33 kV 2x40 MVA IMLC Raibareilly	Awaited	62.50
15	Deposit	TSC	220	Chitrakoot	220/132/33 kV 2x160+2x40 MVA IMLC Chitrakoot	Awaited	167.20
16	Deposit	TSC	220	Jalaun	220/132/33 kV 2x160+2x40 MVA IMLC Jalaun	Awaited	109.80
17	Deposit	TSE	132	Pratapgarh	132/33 kV 2x40 MVA IMLC Pratapgarh	Awaited	62.50
18	Deposit	TSE	132	Prayagraj	132/33 kV 2x40 MVA IMLC Prayagraj	Awaited	52.60
						Total	4,137.07

अधीक्षण अभियन्ता
(प्रभार निदेशक (नियोजन एवं पालिसी)

Annexure-2
List of Planned Substation in TBCB Mode

List of Substations planned under TBCB Mode in Rolling Transmission Plan FY 2026-27 to 2030-31

Sr. No.	Zone	Voltage (kV)	District	Name of S/s	TWC	Estimated Cost (Rs. in Cr.)	Proposed Planed Year
	TSE	220	Fatehpur	220/132/33 kV 2x160+2x40 MVA Khaga	14/9th	180.29	2026-27
	TSE	220	Varanasi	220/33 kV 2x60 MVA Varanasi Cantt	14/9th	191.14	2026-27
	TSW	220	Kannauj	220/132/33 kV 2x160+2x63 MVA Tirwa	13/53th	109.84	2026-27
	TW	220	Ghaziabad	220/33 kV 3x60 MVA Vasundhra	14/9th	122.09	2026-27
	TW	400	Gautam Buddha Nagar	400/220/132 kV 2x500 MVA GIS Jewar	14/6th	220.18	2026-27
1	TC	220	Barabanki	220/132/33 kV 2x160+2x40 MVA Shahpur	Awaited	167.87	2027-28
2	TC	220	Unnao	220/132 kV 2x160 MVA GIS Maurawa	Awaited	94.34	2027-28
3	TNE	220	Mau	220/132/33 kV 2x160+2x40 MVA Ranipur	14/20th	176.62	2027-28
4	TSE	220	Mirzapur	220/132/33 kV 2x160+2x40 MVA AIS Chunar	1st FY 25-26	135.53	2027-28
5	TC	400	Lucknow	400/220 kV 2x500 MVA Varuo Vihar	Awaited	580.00	2028-29
6	TC	400	Lucknow	400/220 kV 2x500 MVA IT City	Awaited	620.00	2028-29
7	TSE	220	Chandauli	220/132/33 kV 2x160+2x40 MVA Amra	Awaited	167.75	2028-29
8	TSE	220	Jaunpur	220/132/33 kV 2x160+2x40 MVA Jaunpur-II	Awaited	120.96	2028-29
9	TSW	220	Agra	200/132/33 kV 2x160+2x40 MVA Agra-II	Awaited	133.72	2028-29
10	TSW	220	Mainpuri	220/132 kV 2x160 MVA Mainpuri-II	Awaited	99.54	2028-29
11	TW	400	Gautam Buddha Nagar	400 kV 3x500 MVA YEIDA Sector-28 with 125 MVAR Bus Reactor	1st FY 25-26	629.34	2028-29
12	TC	400	Barabanki	400/220 kV 2x500+2x160 MVA Barabanki	Awaited	525.02	2029-30
13	TC	400	Lucknow	400/220 kV 2x500 MVA Ansal API (IT City)	Awaited	603.00	2029-30
14	TC	400	Lucknow	400/220 kV 2x500 MVA Sultanpur Road	Awaited	511.39	2029-30
15	TC	400	Sitapur	400/220 kV 2x500+2x160 MVA Sitapur	Awaited	1,182.69	2029-30
16	TC	765	Lucknow	765/400 kV 2x1500 MVA Sultanpur Road	Awaited	2,609.38	2029-30
17	TSW	400	Kanpur Nagar	400/220/132 kV 2x500+2x160 MVA Panki-II	Awaited	615.59	2029-30
18	TW	220	Aligarh	220/132/33 kV 2x160+2x40 MVA Khair-II	Awaited	165.00	2029-30
19	TW	220	Bijnor	220/132/33 kV 2x160+2x40 MVA Tajpur-II	Awaited	184.00	2029-30
20	TW	220	Moradabad	220/132/33 kV 2x160+2x40 MVA Moradabad-II	Awaited	138.05	2029-30
21	TC	220	Barabanki	220/132/33 kV 2x160+2x40 MVA Haidergarh	Awaited	194.33	2030-31
22	TC	220	Gonda	220/132/33 kV 2x160+2x40 MVA Colonelganj-II	Awaited	175.57	2030-31
23	TC	220	Shahjahanpur	220/132/33 kV 2x160+2x40 MVA Powayan	Awaited	184.95	2030-31
24	TC	220	Unnao	220/132/33 kV 2x160+2x40 MVA Chakalbanshi	Awaited	175.57	2030-31
25	TSE	220	Jaunpur	220/132/33 kV 2x160+2x40 MVA Shahganj	Awaited	184.00	2030-31
26	TSE	400	Ghazipur	400 kV 2x500 MVA Ghazipur	Awaited	724.12	2030-31
27	TSW	400	Etawah	400/220 kV 2x500+2x160 MVA Bharthana	Awaited	517.36	2030-31
28	TW	220	Meerut	220/33 kV 3x60 MVA Meerut By Pass	Awaited	215.36	2030-31
					Total	12,654.57	

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Annexure-3
List for Reactive Power Requirements at 33kV, 132kV, 400kV & 765kV Voltage levels for FY 2026-31

List of 33kV proposed Shunt capacitor from year 2026 to 2031

Sr. No.	Zone	Voltage level (kV)	Substation name	Existing Capacity of Capacitors (MVAr)	Proposed capacity of Capacitor (MVAr)	Year of proposal
1	Prayagraj	33	132kV Khaga	2x10	10	2026-27
2	Prayagraj	33	132kV Mintopark	-	2x10	2025-26
3	Prayagraj	33	132kV DLW	-	10	2027-28
4	Lucknow	33	220kV Hardoi Road	2x10	10	2026-27
5	Lucknow	33	220kV Sitapur	20	10	2026-27
6	Lucknow	33	132kV Gola	-	10	2026-27
7	Lucknow	33	132kV Powayan	10	10	2026-27
8	Lucknow	33	132kV JAGDISHPUR	10	10	2027-28
9	Meerut	33	132kV Bachhraun	-	2x10	2027-28
10	Agra	33	132kV MATHURA	-	10	2027-28
11	Prayagraj	33	132kV Ghazipur-II		1X10	2029-30
12	Prayagraj	33	132kV Gopiganj	-	1x10	2029-30
13	Prayagraj	33	220kV Bhadohi (GIS)	-	1x10	2029-30
14	Prayagraj	33	132kV Bhadoi	-	1x10(at SB)	2029-30
15	Prayagraj	33	132kV DLW	-	1x10	2029-30
16	Prayagraj	33	132kV B.H.U.	-	1x10	2029-30
17	Prayagraj	33	220kV Sahupuri	-	1x10(at SB)	2029-30
18	Prayagraj	33	132kV Husainganj	-	1x10(at SB)	2029-30
19	Gorakhpur	33	132kV Padrauna	-	1x10	2029-30
20	Gorakhpur	33	132kV FCI-II Gorakhpur	-	1x10	2029-30
21	Gorakhpur	33	132kV Bansdih	-	1x10	2029-30
22	Lucknow	33	220kV Gonda	-	1x10	2029-30
23	Lucknow	33	220kV Hardoi	-	2X10	2029-30
24	Lucknow	33	132kV Sandila	-	2X10	2029-30
25	Lucknow	33	132kV Shrimau	10	1x10	2027-28
26	Lucknow	33	220kV GIS Ayodhya	-	2x10	2029-30
27	Lucknow	33	220kV Amethi	-	1x10	2029-30

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Sr. No.	Zone	Voltage level (kV)	Substation name	Existing Capacity of Capacitors (MVAr)	Proposed capacity of Capacitor (MVAr)	Year of proposal
28	Lucknow	33	132kV Asroga	-	1x10	2029-30
29	Lucknow	33	220kV Mohan road	-	2x10	2029-30
30	Lucknow	33	132kV Newajganj	-	2x10	2029-30
31	Meerut	33	132kV Kanker Khera	-	1x10 (at SB)	2029-30
32	Meerut	33	220kV Modipuram_1	-	2X10	2029-30
33	Meerut	33	132kV Parikshitgarh	-	1x10	2029-30
34	Meerut	33	132kV Sec-115-II	-	2x10	2029-30
35	Meerut	33	132kV Gajraula	-	1x10(at SB)	2029-30
36	Agra	33	132 kV Sonkh Road	-	1x10	2029-30
37	Agra	33	132kV Kannauj	-	1x10	2029-30
38	Agra	33	132kV Kunera,Etawah	-	1x10	2029-30
39	Agra	33	220kV Tirwa	-	2x10	2029-30
40	Agra	33	132kV Bichupuri, Agra	-	1x10	2029-30
41	Jhansi	33	132kV Kadaura	-	1x10	2029-30

List of 132kV proposed Shunt capacitor from year 2026 to 2031

Sr. No.	Zone	Circle	Voltage level (kV)	Substation name	Existing Capacity of Capacitors (MVAr)	Proposed Capacity of Capacitor (MVAr)	Voltage Magnitude (Before proposal of capacitor) In PU	Voltage Magnitude (After proposal of capacitor) In PU	Year of proposal
1	Prayagraj	ETC - GHAZIPUR	132	132kV Kandesar	-	20	0.88	0.91	2029-30
2	Prayagraj	ETC - MIRZAPUR	132	220kV Bhadohi (GIS)	-	20	0.91	0.94	2029-30
3	Gorakhpur	ETC - BASTI	132	132kV Naugarh	-	20	0.89	0.93	2026-27
4	Gorakhpur	ETC - GORAKHPUR	132	132kV Raja Pakar	-	1x20	0.81	0.9	2026-27
5	Gorakhpur	ETC - GORAKHPUR	132	220kV Hata kushinagar	-	2x40	0.89	0.93	2025-26
6	Lucknow	ETC - SHAHAJHANPUR	132	132kV Neri	-	20	0.87	0.9	2028-29
7	Lucknow	ETC - SHAHAJHANPUR	132	220kV Hardoi	-	40	0.93	0.95	2028-29
8	Lucknow	ETC - SHAHAJHANPUR	132	220kV Hardoi road	-	2x40	0.94	0.98	2029-30
9	Lucknow	ETC - SULTANPUR	132	220kV Amethi	-	40	0.91	0.95	2029-30
10	Meerut	ETC - MUZAFFARNAGAR	132	220kV Nara(Muzaffarnagar)	-	40	0.94	0.97	2029-30
11	Agra	ETC - AGRA	132	220kV Bah	-	40	0.91	0.98	2029-30
12	Agra	ETC I - KANPUR	132	220kV Sikandra kanpur Dehat	-	40	0.92	0.95	2029-30
13	Agra	ETC II - KANPUR	132	220kV Sarh	-	40	0.93	0.95	2029-30

List of 400 kV & 765 kV proposed Reactor from year 2026 to 2031

Sr. No.	Bus Voltage	Zone	Circle	Bus Name	Voltage Magnitude (Before Reactors Proposal) in PU	Voltage Magnitude (After Reactors Proposal) in PU	Proposed Reactor Capacity in MVAr (by UPPTCL)
23	400	TW-MEERUT	ETC - MUZAFFARNAGAR	SHAMLI_400	1.031	0.993	125
24	400	TW-MEERUT	ETC - NOIDA	JALPURA	1.312	1.011	125
25	400	TSC-JHANSI	ETC - BANDA	MAHEBA	1.304	1.027	125
26	400	TSW-AGRA	ETC II - KANPUR	FARRUKHABAD	1.421	1.022	125
27	400	TSC-JHANSI	ETC - BANDA	CHITRAKOOT	1.311	1.021	125
28	765	TSW-AGRA	ETC II - KANPUR	GHATAMPUR TPS	1.012	0.96	330
29	400	TSW-AGRA	ETC II - KANPUR	GHATAMPUR TPS	0.99	0.98	125
30	400	TSE-PRAYAGRAJ		OBRA-C	1.018	1.005	63
31	400	TSW-AGRA	ETC - AGRA	FATEHABAD AGRA	1.031	1.002	63
32	400	TSC-JHANSI	ETC - JHANSI	GURSARAI	1.034	1.027	125
33	400	TW-MEERUT	ETC - NOIDA	METRO DEPO	1.004	0.99	125
34	400	TW-MEERUT	ETC - NOIDA	JEWAR	1.008	0.993	125
35	400	TW-MEERUT	ETC - NOIDA	YEIDA SEC-28	1.011	1.006	125

Annexure-4

Year wise Study of TBCB impact on Transmission Loss FY 26-31 including therotical trasmission losses within the system

FY 2026-27

Voltage-wise Transmission line loss in MW

Sl.No	Voltage in kV	Total Peak demand Loss in MW-without TBCB	Total Peak demand Loss in MW-with Load distributed to TBCB	Difference
1	765	97.2717	96.5188	0.7529
2	400	267.0676	264.3421	2.7255
3	220	235.807	231.6291	4.1779
4	132	302.3869	293.3565	9.0304
Total		902.5332	885.8465	16.6867

Voltage-wise Transformer loss in MW

Sl. No.	Voltage in kV	Total Peak demand Loss in MW-without TBCB	Total Peak demand Loss in MW-with Load distributed to TBCB	Difference
1	765	16.056	15.9919	0.0641
2	400	26.7765	26.4726	0.3039
3	220	39.4753	39.1652	0.3101
4	132	55.7492	54.7725	0.9767
Total		138.057	136.4022	1.6548

Total Losses in MW	1040.5902	1022.2487	18.3415
Losses in %	3.07%	3.01%	0.06%

FY 2027-28

Voltage-wise Transmission line loss in MW

Sl.No	Voltage in kV	Total Peak demand Loss in MW-without TBCB	Total Peak demand Loss in MW-with Load distributed to TBCB	Difference
1	765	99.5498	97.1024	2.4474
2	400	296.6667	302.1216	-5.4549
3	220	289.1243	286.856	2.2683
4	132	447.8906	441.4205	6.4701
Total		1133.2314	1127.5005	5.7309

Voltage-wise Transformer loss in MW

Sl. No.	Voltage in kV	Total Peak demand Loss in MW-without TBCB	Total Peak demand Loss in MW-with Load distributed to TBCB	Difference
1	765	18.7338	18.7858	-0.052
2	400	38.4962	38.2953	0.2009
3	220	41.72	42.0012	-0.2812
4	132	73.9361	72.8573	1.0788
Total		172.8861	171.9396	0.9465

Total Losses in MW	1306.1175	1299.4401	6.6774
Losses in %	3.59%	3.58%	0.01%

FY 2028-29

Voltage-wise Transmission line loss in MW

Sl.No	Voltage in kV	Total Peak demand Loss in MW-without TBCB	Total Peak demand Loss in MW-with Load distributed to TBCB	Difference in MW
1	765	130.2175	126.1957	4.0218
2	400	301.223	303.468	-2.245
3	220	303.4509	300.1966	3.2543
4	132	392.6606	383.0651	9.5955
Total		**1127.552**	**1112.9254**	**14.6266**

Voltage-wise Transformer loss in MW

Sl. No.	Voltage in kV	Total Peak demand Loss in MW-without TBCB	Total Peak demand Loss in MW-with Load distributed to TBCB	Difference in MW
1	765	23.8503	23.4363	0.414
2	400	32.5641	32.1491	0.415
3	220	45.8995	46.5866	-0.6871
4	132	76.0948	74.8769	1.2179
Total		**178.4087**	**177.0489**	**1.3598**

Total Losses in MW	**1305.9607**	**1289.9743**	**15.9864**
Losses in %	**3.27%**	**3.23%**	**0.04%**

FY 2029-30

Voltage-wise Transmission line loss in MW

Sl.No	Voltage in kV	Total Peak demand Loss in MW-without TBCB	Total Peak demand Loss in MW-with Load distributed to TBCB	Difference in MW
1	765	148.1194	148.119	0.0004
2	400	292.3365	291.6968	0.6397
3	220	310.6884	291.4462	19.2422
4	132	345.0184	330.5537	14.4647
Total		**1096.1627**	**1061.8157**	**34.347**

Voltage-wise Transformer loss in MW

Sl. No.	Voltage in kV	Total Peak demand Loss in MW-without TBCB	Total Peak demand Loss in MW-with Load distributed to TBCB	Difference in MW
1	765	21.7214	20.8909	0.8305
2	400	35.7744	33.727	2.0474
3	220	44.3975	43.8896	0.5079
4	132	73.0301	68.499	4.5311
Total		**174.9234**	**167.0065**	**7.9169**

Total Losses in MW	**1271.0861**	**1228.8222**	**42.2639**
Losses in %	**3.09%**	**2.99%**	**0.10%**

FY 2030-31

Voltage-wise Transmission line loss in MW

Sl.No	Voltage in kV	Total Peak demand Loss in MW-without TBCB	Total Peak demand Loss in MW-with Load distributed to TBCB	Difference in MW
1	765	147.9739	145.9223	2.0516
2	400	300.8252	297.3902	3.435
3	220	324.1897	321.732	2.4577
4	132	389.2655	380.6655	8.6
Total		**1162.2543**	**1145.71**	**16.5443**

Voltage-wise Transformer loss in MW

Sl. No.	Voltage in kV	Total Peak demand Loss in MW-without TBCB	Total Peak demand Loss in MW-with Load distributed to TBCB	Difference in MW
1	765	20.8763	20.814	0.0623
2	400	38.1934	37.2154	0.978
3	220	51.6301	50.6933	0.9368
4	132	82.2313	80.3898	1.8415
Total		**192.9311**	**189.1125**	**3.8186**

Total Losses in MW	**1355.1854**	**1334.8225**	**20.3629**
Losses in %	**3.13%**	**3.09%**	**0.04%**

Annexure-5

Year wise Status of Projects currently under Planning Stage

Sr. No.	Zone	District	Mode of Ex.	Voltage (kV)	Name of S/s	TWC	RTP-30	Current Status in RTP-31	Reasoning
1	TC	Badaun	Deposit	132	132/33 kV IMLC Badaun S/s	Awaited	-	FY 2027-28	Land to be provided by Developer
2	TC	Hardoi	Deposit	132	132/33 kV IMLC Hardoi S/s	Awaited	-	FY 2027-28	TWC Proposal received by Field
3	TC	Amethi	Deposit	132	132/33 kV IMLC Amethi S/s	Awaited	-	FY 2027-28	TWC Proposal received by Field
4	TC	Shahjahanpur	Deposit	132	132/33 kV IMLC Shahjahanpur S/s	Awaited	-	FY 2027-28	Land Available
5	TW	Amroha	Deposit	132	132/33 kV IMLC Amroha S/s	Awaited	-	FY 2027-28	Land Available
6	TSW	Firozabad	Deposit	132	132/33 kV IMLC Firozabad S/s	Awaited	-	FY 2027-28	Land Available
7	TC	Ayodhya	Deposit	132	132/33 kV Awas Vikas, Ayodhya	Awaited	-	FY 2027-28	Land Available
8	TC	Ambedkar Nagar	Deposit	132	132/33 kV IMLC Ambedkar Nagar S/s	Awaited	-	FY 2029-30	Land to be provided by Developer
9	TSW	Auraiya	Deposit	132	132/33 kV IMLC Auraiya S/s	Awaited	-	FY 2029-30	Land to be provided by Developer
10	TSC	Mahoba	Deposit	132	132/33 kV IMLC Mahoba S/s	Awaited	-	FY 2029-30	Land to be provided by Developer
11	TSC	Hamirpur	Deposit	132	132/33 kV IMLC Hamirpur S/s	Awaited	-	FY 2029-30	Land to be provided by Developer
12	TSE	Gazipur	Deposit	132	132/33 kV IMLC Gazipur S/s	Awaited	-	FY 2029-30	Land to be provided by Developer
13	TW	Hapur	Deposit	132	132/33 kV IMLC Hapur S/s	Awaited	-	FY 2029-30	Land to be provided by Developer
14	TC	Ambedkar Nagar (Link Exp.)	Deposit	132	132/33 kV IMLC Ambedkar Nagar (Link Exp.) S/s	Awaited	-	FY 2029-30	Land to be provided by Developer
15	TSE	Pratapgarh	Deposit	132	132/33 kV IMLC Pratapgarh S/s	Awaited	-	FY 2030-31	Land to be provided by Developer
16	TSE	Prayagraj	Deposit	132	132/33 kV IMLC Prayagraj S/s	Awaited	-	FY 2030-31	Land to be provided by Developer
17	TC	Raebareli	Deposit	132	132/33 kV IMLC Raebareli S/s	Awaited	-	FY 2030-31	Land to be provided by Developer
18	TW	Meerut	Deposit	220	220/132/33 kV IMLC Meerut S/s	Awaited	-	FY 2027-28	Land Available
19	TW	Sambhal	Deposit	220	220/132/33 kV IMLC Sambhal S/s	Awaited	-	FY 2027-28	Land Available
20	TC	Sultanpur	Deposit	220	220/132/33 kV IMLC Sultanpur S/s	Awaited	-	FY 2028-29	Land to be provided by Developer
21	TC	Barabanki	Deposit	220	220/132/33 kV IMLC Barabanki S/s	Awaited	-	FY 2028-29	Land to be provided by Developer
22	TC	Lucknow	Deposit	220	220/132/33 kV 2x200+2x63 MVA Naimish Nagar S/s	Awaited	-	FY 2028-29	Land Available
23	TC	Lucknow	Deposit	220	220/132/33 kV 2x200+2x63 MVA Vasan Vihar S/s-I	Awaited	-	FY 2028-29	Land Available
24	TC	Lucknow	Deposit	220	220/132/33 kV 2x200+2x63 MVA Vasan Vihar S/s-II	Awaited	-	FY 2028-29	Land Available
25	TC	Lucknow	Deposit	220	220/132/33 kV 2x200+2x63 MVA IT City S/s	Awaited	-	FY 2028-29	Land Available
26	TC	Lucknow	Deposit	220	220/132/33 kV 2x200+2x63 MVA Wellness City S/s	Awaited	-	FY 2028-29	Land Available
27	TC	Bareilly	Deposit	220	220/33kV 2x63 MVA 220 kV Gr. Bareilly(BDA)	Awaited	-	FY 2028-29	TWC proposal awaited
28	TSC	Banda	Deposit	220	220/132/33 kV IMLC Banda S/s	Awaited	-	FY 2029-30	Land to be provided by Developer
29	TSC	Jalaun	Deposit	220	220/132/33 kV IMLC Jalaun S/s	Awaited	-	FY 2030-31	Land to be provided by Developer
30	TSC	Chitrakoot	Deposit	220	220/132/33 kV IMLC Chitrakoot S/s	Awaited	-	FY 2030-31	Land to be provided by Developer
31	TNE	Gorakhpur	Deposit	400	400/220 kV IMLC Gorakhpur S/s	Awaited	-	FY 2029-30	Land to be provided by Developer

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अधिशासी अभियन्ता
सम्बद्ध निदेशक (नियोजन एवं वाणिज्य)
उ.प्र.पा.प्र.नि.लि.

Sr. No.	Zone	District	Mode of Ex.	Voltage (kV)	Name of S/s	TWC	RTP-30	Current Status in RTP-31	Reasoning
32	TC	Bareilly	RTM	132	132/33 kV 2x63 MVA Ram Ganga Nagar Vihar	Awaited	FY 2026-27	Shift FY 2027-28	Due to unavailability of Land
33	TC	Sultanpur	RTM	132	132/33 kV 2x40 MVA Asroga	Awaited	FY 2026-27	Shift FY 2027-28	Delay due to 33kV Feeder details not received from Discom.
34	TNE	Deoria	RTM	132	132/33 kV 2x40 MVA Bhatparrani	Awaited	FY 2026-27	Shift FY 2027-28	Originally these two new SS, were planned to be source from proposed 220kV Barhaj SS. Due to land issue 220kV
35	TW	Bijnor	RTM	132	132/33 kV 2x40 MVA Swaheri	Awaited	FY 2026-27	Shift FY 2027-28	Source is unavailable due to non construction of 220kV line
36	TW	Meerut	RTM	132	132/33 kV 2x40 MVA Parikshitgarh	Awaited	FY 2026-27	Shift FY 2027-28	Delay due to availability of 4nos. 33kV feeder bay created at 220kV Mawana S/s to supply Parikshitgarh area.
37	TW	Moradabad	RTM	132	132/33 kV 2x40 MVA Dilari	Awaited	FY 2026-27	Shift FY 2027-28	Source will be available after U/G of 132kV Tands to 220 kV level.
38	TW	Saharanpur	RTM	132	132/33 kV 2x40 MVA Muzaffarabad	Awaited	FY 2026-27	Dropped	Based on field inputs, the request is deferred to FY 2029-30 and it is dropped due to non-requirement till FY 2029-30.
39	TC	Sitapur	RTM	132	132/33 kV 2x40 MVA Bhawanipur	Awaited	FY 2027-28	FY 2027-28	TWC is awaited
40	TC	Unnao	RTM	132	132/33 kV 2x40 MVA Dighapur-II	Awaited	FY 2027-28	Dropped	220kV Maurawan is planned in FY 2028-29.
41	TNE	Azamgarh	RTM	132	132/33 kV 2x40 MVA Sarai Mir	Awaited	FY 2027-28	Dropped	Due to the up-gradation of Atraulia Substation, the additional load of Phoolpur S/s will be catered from Atraulia S/s; hence, Sarai Meer S/s is not required.
42	TSE	Pratapgarh	RTM	132	132 kV 2x40 MVA Kusawapur S/s	Awaited	FY 2027-28	FY 2027-28	In place of 132kV Kuswapur Upgradation of 132/33 kV Sarasto to 220kV 2x160 MVA Level is planned
43	TW	Muzaffarnagar	RTM	132	132 kV 2x40 MVA Bhatauna	Awaited	FY 2027-28	Dropped	Due to 132kV Sujroo SS in RTM requirement of 132kV Bhatauna is not required. submitted to Hon'ble UPERC for approval. Land will be provided by PVVNL
44	TW	Rampur	RTM	132	132/33 kV 2x40 MVA Nahabganj	Awaited	FY 2027-28	Dropped	Due to planning of Creation of 132 kV level on 765/400/220 kV Rampur 2x160 MVA in FY 2028-29
45	TW	Muzaffarnagar	RTM	132	132/33 kV 2x40 MVA Shahpur	Awaited	FY 2027-28	Dropped	Drop due to construction of planned 132kV Sujroo S/s .
46	TSC	Kanpur Nagar	RTM	132	132/33 kV 2x40 MVA Shyam Nagar	Awaited	FY 2028-29	Dropped	Load in the region will be catered by planned augmentation at 220/33 kV Phoolbagh GIS 2x60 To 3x60 MVA

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Sr. No.	Zone	District	Mode of Ex.	Voltage (kV)	Name of S/s	TWC	RTP-30	Current Status in RTP-31	Reasoning
47	TW	Ghaziabad	RTM	132	132/33 kV 2x40 MVA Kavya	Awaited	FY 2028-29	Dropped	Drop as per requirement from UPPCL was withdrawn
48	TW	Saharanpur	RTM	132	132/33 kV 2x40 MVA Chilkana	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land
49	TC	Unnao	RTM	132	Creation of 132/33 kV 2x40 MVA Level at Dahi Chowki 220/33 kV 2x60 MVA	Awaited	FY 2029-30	Shift FY 2030-31	Delay as per request of UPPCL
50	TSC	Kanpur Dehat	RTM	132	132/33 kV 2x40 MVA Arsthadpur	Awaited	FY 2029-30	Dropped	To reduce the length of the 33 kV feeder and strengthen the system, the location has been shifted from Arsthadpur to Shivali as per field requirements.
51	TSC	Kanpur Dehat	RTM	132	132/33 kV IIT Kanpur S/s	Awaited	FY 2029-30	Dropped	Due to 132kV IIT Kanpur S/s approved in 1st FY 2025-26 TWC meeting in deposit
52	TW	Meerut	RTM	132	132/33 kV 2x40 MVA Basti Town	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
53	TW	Muzaffarnagar	RTM	132	132kV 2x40 MVA Bhatoura	Awaited	FY 2029-30	Dropped	Due to 132kV Sujroo SS in RTM requirement of 132kV Bhatoura is not required. submitted in Hon'ble UPERC for approval. Land will be provided by PVVNL
54	TSW	Kanpur	RTM	132	132/33 kV 2x40 MVA Ghatampur-II	Awaited	-	FY 2027-28	Land not Finalized
55	TC	Bareilly	RTM	132	Creation of 132 kV level on 400/220 kV Bareilly 2x160 MVA	Awaited	-	FY 2028-29	TWC proposal awaited
56	TNE	Kushinagar	RTM	132	132/33 kV Kasia II 2x40 MVA	Awaited	-	FY 2028-29	TWC proposal awaited
57	TW	Rampur	RTM	132	Creation of 132 kV level on 765/400/220 kV Rampur 2x160 MVA	Awaited	-	FY 2028-29	TWC proposal awaited
58	TC	Unnao	RTM	132	132/33 kV 2x63 MVA Ajgain	Awaited	-	FY 2030-31	Land not Finalized
59	TSE	Varanasi	RTM	132	132/33 kV 2x40 MVA Belwa	Awaited	FY 2027-28	Dropped	Drop due to cater by existing 220kV Bhadohi
60	TC	Unnao	RTM	220	Upgradation of 132 kV Kundan Road S/s to 220 kV 2x160 MVA Level	Awaited	FY 2026-27	Shift FY 2027-28	Delay due to Line feasibility awaited from field.
61	TC	Budaun	RTM	220	220/33 kV 2x60 MVA Budaun-II (Bisauli)	Awaited	FY 2027-28	Dropped	Due to unavailability of land in place of 220 kV Budaun II SS and due to U/g of 132kV Bisauli SS to 220kV level in FY 2028-29.
62	TC	Bahraich	RTM	220	Upgradation of 132 kV Nanpara to 220 kV 2x160 MVA Level	Awaited	FY 2028-29	New planned TWC approval is awaited	To cater upcoming load of TSS, Nanpara S/s, Provide source to Begumpur S/s & also power supply to Nepal.
63	TC	Raibareilly	RTM	220	Upgradation of Existing 132 kV Dalmau to 220 kV 2x160 MVA Level	Awaited	FY 2028-29	Shift FY 2029-30	Due to delay in construction of 400kV Sirsira ,Raebareli.
64	TW	Bijnor	RTM	220	Extention of 400 kV Nehtaur to 220 kV 2x160 MVA Level	Awaited	FY 2028-29	Shift FY 2029-30	TWC proposal awaited

Sr. No.	Zone	District	Mode of Ex.	Voltage (kV)	Name of S/s	TWC	RTP-30	Current Status in RTP-31	Reasoning
65	TC	Budaun	RTM	220	Upgradation of Existing 132 kV Bisauli to 220 kV 2x160 MVA Level	Awaited	FY 2028-29	FY 2028-29	Due to unavailability of land in place of 220 kV Budaun II S/s U/G of Bisauli S/s taken up.
66	TSE	Azamgarh	RTM	220	Upgradation of 132 kV Phoolpur to 220 kV 2x160 MVA Level	Awaited	FY 2029-30	Dropped	Dropped due to revision demand of UPPCL
67	TSE	Prayagraj	RTM	220	Up-gradation of 132 kV Shankargarh to 220 kV 2x160 MVA Level	Awaited	-	FY 2027-28	TWC proposal awaited
68	TC	Hardoi	RTM	220	Up-gradation of 132 kV Sandila to 220 kV 2x160 MVA Level	Awaited	-	FY 2028-29	TWC proposal awaited
69	TC	Sultanpur	RTM	220	Up-gradation of 132 kV Jagdishpur to 220 kV 2x160 MVA Level	Awaited	-	FY 2028-29	TWC proposal awaited
70	TNE	Gorakhpur	RTM	220	Up-gradation of 132/33 kV Shatrughanpur to 220 kV 2x160 MVA Level	Awaited	-	FY 2028-29	TWC proposal awaited
71	TSE	Mirzapur	RTM	400	Upgradation of 220 kV Mirzapur to 400 kV 2x500 MVA Level	Awaited	FY 2028-29	Shift FY 2029-30	Delay due to land finalization for 765 kV Mirzapur pooling S/s.
72	TSE	Sonebhadra	RTM	400	Upgradation of 220 kV Robertsganj to 400/220 kV 2x500 MVA Level	Awaited	FY 2029-30	Shift FY 2030-31	TWC proposal awaited
73	TSE	Prayagraj	RTM	400	Up-gradation of 220 kV Phoolpur to 400/220 kV 2x500+2x160 MVA Level	Awaited	-	FY 2029-30	Land Available
74	TW	G.B. Nagar	RTM	400	Up-gradation of Knowledge Park 200 kV to 400 kV 2x500 MVA Level	Awaited	-	FY 2029-30	Land Available
75	TC	Bahraich	RTM	400	Upgradtion of 220kV Bahraich to 400kV level, 2x500MVA	Awaited	-	FY 2030-31	TWC proposal awaited
76	TNE	Mirzapur	RTM	765	765/400 kV 2x1500 MVA Mirzapur (Pooling Point)	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land .
77	TW	G.B. Nagar	RTM	765	Up-gradation of 400 kV Sector 148 to 765 kV 2x1500 Level	Awaited	-	FY 2029-30	Land Available
78	TC	Barabanki	TBCB	220	220/132/33 kV 2x160+2x40 MVA Shahpur	Awaited	FY 2026-27	Shift FY 2027-28	Due to unavailability of land
79	TC	Unnao	TBCB	220	220/132 kV 2x100 MVA GIS Bangarmau	Dropped	FY 2026-27	Dropped	Additional ckt has been provided form 220kV Mallawan
80	TC	Unnao	TBCB	220	220/132 kV 2x160 MVA GIS Maurawa	Awaited	FY 2026-27	Shift FY 2027-28	Due to unavailability of land
81	TNE	Deoria	TBCB	220	220/132 kV 2x160+2x40 MVA Barhaj	Awaited	FY 2026-27	Dropped	Change in Scheme - 220 kV Barhaj S/s change in to Up-gradation of 132kV Salempur S/s to 220kV level taken up.
82	TW	Gautam Buddha Nagar	TBCB	220	220/33 kV 2x60 MVA Surajpur-II	Dropped	FY 2026-27	Dropped	Due to 220 kV KP-5, 220 kV Metro Depot & 220 kV Jalpura

Sr. No.	Zone	District	Mode of Ex.	Voltage (kV)	Name of S/s	TWC	RTP-30	Current Status in RTP-31	Reasoning
83	TC	Ambedkar nagar	TBCB	220	220/132 kV 2x160+2x40 MVA Akbarpur	Awaited	FY 2027-28	Shift FY 2028-29	Due to unavailbility of land existing 132kV Akbarpur is to be upgraded at 220kV 2x160 level in FY 2028-29
84	TC	Barabanki	TBCB	220	220/132/33 kV 2x160+2x40 MVA Devigunj (between Ramsnehi Ghat-Haidergarh)	Dropped	FY 2027-28	Dropped	Already planned 220 kV Shahpur in FY 2027-28 & U/g of 132 kV Jagdishpur S/s (Amethi) in FY 2028-29
85	TSE	Chandauli	TBCB	220	220 kV 2x160+2x40 MVA Amra	Awaited	FY 2027-28	Shift FY 2028-29	Shifted due to unavailbility of land
86	TSE	Jaunpur	TBCB	220	220/132/33 kV 2x160+2x40 MVA Jaunpur-II	Awaited	FY 2027-28	Shift FY 2028-29	Shifted due to unavailbility of land
87	TSE	Sonbhadra	TBCB	220	220/132 kV 2x160+2x63 MVA Robertsganj-II	Dropped	FY 2027-28	Dropped	Dropped due to the Solar Power connectivity is not consistning in Sonbhadra region.
88	TSW	Agra	TBCB	220	200/132 kV 2x160+2x40 MVA Agra-II	Awaited	FY 2027-28	Shift FY 2028-29	Shifted due to unavailbility of land
89	TW	Bijnor	TBCB	220	220 kV 2x160+2x40 MVA Nehtaur-II	Dropped	FY 2027-28	Dropped	Due to planning of Extention of 400 kV Nehtaur to 220 kV 2x160 MVA Level in FY 2029-30
90	TW	Hapur	TBCB	220	220/33 kV 3x60 MVA Simbholi-II	Awaited	FY 2027-28	Dropped	Due to unavailability of land in place of 220 kV 220kV Sambhali II SS U/G of 132kV Lakhaoti SS to 220kV level taken up in FY 2028-29.
91	TSW	Mainpuri	TBCB	220	220/132 kV 2x160 MVA Mainpuri-II	Awaited	FY 2028-29	FY 2028-29	TWC proposal awaited
92	TSW	Mathura	TBCB	220	200/33 kV 2x60 MVA Mathura New (Near Kosikalan)	Awaited	FY 2028-29	Dropped	On demand of Aligarh Development authority 220kV Aligarh New is planned in FY 2028-29
93	TC	Barabanki	TBCB	220	220/132 kV 2x160+2x40 MVA Haidergarh	Awaited	FY 2029-30	Shift FY 2030-31	Due to unavailability of land
94	TC	Gonda	TBCB	220	220/132 kV 2x160+2x40 MVA Colonelganj-II	Awaited	FY 2029-30	Shift FY 2030-31	Due to unavailability of land & requirement of Discom.
95	TC	Shahjahanpur	TBCB	220	220/132 kV 2x160+2x40 MVA Powayan	Awaited	FY 2029-30	Shift FY 2030-31	To be connected with proposed 400kV Sitapur
96	TC	Unnao	TBCB	220	220/132 kV 2x160+2x40 MVA Chakabandh	Awaited	FY 2029-30	Shift FY 2030-31	Due to unavailability of land
97	TNE	Azamgarh	TBCB	220	220/132 kV 2x160+2x40 MVA Atraulli	Awaited	FY 2029-30	Dropped	Due to unavailability of land up-gradation of 132kV Atraulli to 220kV level is planned FY 2029-30
98	TNE	Basti	TBCB	220	220 kV 3x60 MVA Meerut By Pass	Awaited	FY 2029-30	Shift FY 2030-31	Due to unavailability of land
99	TNE	Jaunpur	TBCB	220	220/132 kV 2x160+2x40 MVA Shahganj	Awaited	FY 2029-30	Shift FY 2030-31	Due to unavailability of land
100	TSC	Kanpur Dehat	TBCB	220	220/132 kV 2x160+2x40 MVA Rasoolabad	Awaited	FY 2029-30	Dropped	Load of the region will be cater by 220kV Tirwa

Sr. No.	Zone	District	Mode of Ex.	Voltage (kV)	Name of S/s	TWC	RTP-30	Current Status in RTP-31	Reasoning
101	TSC	Kanpur Nagar	TBCB	220	220/132/33 kV 2x160+2x40 MVA Navabganj	Awaited	FY 2029-30	Dropped	Due to 132kV IIT Kanpur S/s deposit approved in 1st FY 2025-26 TWC meeting
102	TW	Aligarh	TBCB	220	220/132 kV 2x160+2x40 MVA Khair-II	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
103	TW	Bijnor	TBCB	220	220/132 kV 2x160+2x40 MVA Tajpur-II	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
104	TW	Gautam Buddha Nagar	TBCB	220	220/132 kV 2x160 MVA Ecotech (Greater Noida)	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
105	TW	Gautam Buddha Nagar	TBCB	220	220/132 kV 2x160 MVA Builder Area (Greater Noida)	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
106	TW	Gautam Buddha Nagar	TBCB	220	220/132 kV 2x160 MVA Sector-2 (Greater Noida)	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
107	TW	Gautam Buddha Nagar	TBCB	220	220/132 kV 2x160+2x40 MVA Dirondi (Greater Noida)	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
108	TW	Moradabad	TBCB	220	220kV 2x160+2x40 MVA Moradabad II	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
109	TW	Rampur	TBCB	220	Up-gradation of existing 132kV Tanda to 220kV 2x160+2x40MVA	Awaited	-	Shift FY 2027-28	TWC approval awaited
110	TC	Barabanki	TBCB	400	400/220 kV 2x500+2x160 MVA Daribanki	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land
111	TC	Lucknow	TBCB	400	400/220 kV 2x500 MVA Sultanpur Road	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land .
112	TC	Lucknow	TBCB	400	400/220 kV 2x500 MVA Ansal API (IT City)	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land .
113	TC	Lucknow	TBCB	400	400 kV 2x315 MVA Daud Nagar (Nagram Road)	Dropped	FY 2028-29	Dropped	Due to 400kV IT City S/s Planned for LDA in FY 2028-29
114	TC	Sitapur	TBCB	400	400/220 kV 2x500+2x160 MVA Sitapur	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land .
115	TSE	Ghazipur	TBCB	400	400 kV 2x500 MVA Ghazipur	Awaited	FY 2028-29	Shift FY 2030-31	Due to unavailability of land .
116	TSW	Etawah	TBCB	400	400 kV 2x500+2x160 MVA Bharthana	Awaited	FY 2028-29	Shift FY 2030-31	Due to unavailability of land .
117	TSC	Kanpur Nagar	TBCB	400	400/220/132 kV 2x500+2x160 MVA Panki-II	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
118	TC	Lucknow	TBCB	400	400/220 kV 2x500 MVA Varun Vihar S/s	Awaited	-	FY 2028-29	Land Available
119	TC	Lucknow	TBCB	400	400/220 kV 2x500MVA IT City S/s	Awaited	-	FY 2028-29	Land Available
120	TC	Lucknow	TBCB	765	765/400 kV 2x1500 MVA Sultanpur Road	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land .

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Annexure-6

Status of Rolling Transmission Plan for FY 2025-26 to FY 2030-31

Status of Rolling Transmission Plan FY 2025-26 to FY 2030-31

Sr. No.	Zone	District	Mode of Ex.	Voltage (kV)	S/s/ Line	Name of S/s	TWC	RTP FY 2025-30	Current Status	Reasoning/remark
1	TW	Gautam Buddha Nagar	Deposit	220	SS	220/132, 220/33 kV 1x160+2x60 MVA GIS Sector-45	12/40th	FY 2025-26	Shift FY 2026-27	Delay in Execution due to the Noida Authority
2	TC	Raibareilly	RTM	400	SS	400/220/132 kV 2x500+2x160 MVA GIS Sirsira	12/45th	FY 2025-26	Shift FY 2027-28	Delay in Execution due to fire accident at site
3	TSE	Ghazipur	RTM	132	SS	132/33 kV 2x40 MVA Ghazipur-II	14/20th	FY 2025-26	Shift FY 2026-27	Delay in Execution by M/s SMM Infratech, The delay is due to water logging at the site.
4	TSW	Firozabad	RTM	132	SS	132/33 kV 2x40 MVA Sofipur	14/20th	FY 2025-26	Shift FY 2026-27	Delay in land hand over
5	TW	Meerut	RTM	220	SS	220/132/33 kV 2x160 MVA GIS Mawana & 1c 2x63 to 3x63 MVA	13/51th	FY 2025-26	Energised	11.01.2026
6	TW	Hapur	RTM	132	SS	132/33 kV 2x40 MVA Dhaulana	6th FY 2024-25	FY 2025-26	Energised	28.01.2026
7	TSC	Jalaun	RTM-GEC-II	132	SS	132/33 kV 2x40 MVA Kuthond	14/2nd	FY 2025-26	Energised	11.09.2025
8	TSC	Jalaun	RTM-GEC-II	132	SS	132/33 kV 2x40 MVA Kadaura	14/4th	FY 2025-26	Energised	23.09.2025
9	TSC	Hamirpur	RTM-GEC-II	132	SS	132/33 kV 2x40 MVA Gohand	14/1st	FY 2025-26	Energised	30.09.2025
10	TSC	Hamirpur	RTM-GEC-II	132	SS	132/33 kV 2x40 MVA Muskara	14/1st	FY 2025-26	Energised	01.03.2026
11	TSC	Lalitpur	RTM-GEC-II	132	SS	132/33 kV 2x40 MVA Mithraoni New	14/2nd, 14/9th	FY 2025-26	Shift FY 2026-27	Substation ready for charging and will be charged with Madwara S/s.
12	TSC	Jalaun	RTM-GEC-II	400	SS	400 kV 2x500+2x160 MVA Maholra	14/2nd	FY 2025-26	Shift FY 2026-27	Physical progress was largely hampered due to severe flooding and waterlogging situation & also due to slow work by EPC.
13	TSC	Jhansi	RTM-GEC-II	400	SS	400 kV 3x500 MVA Garautal, Gursatha	14/9th	FY 2025-26	Energised	18.03.2026
14	TSC	Banda	RTM-GEC-II	132	SS	132/33 kV 2x40 MVA Baberu	14/1st	FY 2025-26	Energised	16.04.2026
15	TSC	Banda	RTM-GEC-II	220	SS	Creation of 132 kV Level at Banda 400/220 2x160 MVA ICT at Banda 400 kV	14/1st	FY 2025-26	Shift FY 2026-27	Physical progress hampered due to slow work, Delay in supply of electrical equipments & non deployment of sufficient Man and Machinery by EPC.
16	TSC	Lalitpur	RTM-GEC-II	220	SS	220 kV 1x160+1x40 MVA Birdha	14/1st	FY 2025-26	Shift FY 2026-27	Physical progress was largely hampered due to severe flooding and waterlogging situation & also due to slow work by EPC in last 3-4 months. Notice has been issued to the firm for slow progress.
17	TSC	Lalitpur	RTM-GEC-II	220	SS	220 kV 1x160+1x40 MVA Mandwara	14/2nd	FY 2025-26	Shift FY 2026-27	Physical progress was largely hampered due to severe flooding and waterlogging situation & also due to slow work by EPC in last 3-4 months. Notice has been issued to the firm for slow progress.
18	TSC	Jalaun	RTM-GEC-II	220	SS	220 kV 1x160+1x40 MVA Dakaur	14/1st	FY 2025-26	Shift FY 2026-27	Physical progress was largely hampered due to severe flooding and waterlogging situation & also due to slow work by EPC in last 3-4 months. Notice has been issued to the firm for slow progress.
19	TSC	Jhansi	RTM-GEC-II	220	SS	220 kV 1x160+1x40 MVA Barmaur	14/1st	FY 2025-26	Shift FY 2026-27	Physical progress was largely hampered due to severe flooding and waterlogging situation & also due to slow work by EPC in last 3-4 months.
20	TSC	Jhansi	RTM-GEC-II	220	SS	220 kV 1x160+1x40 MVA Bangra	14/4th	FY 2025-26	Shift FY 2026-27	Physical progress was largely hampered due to severe flooding and waterlogging situation & also due to slow work by EPC in last 3-4 months Notice has been issued to the firm for slow progress.
21	TSC	Mahoba	RTM-GEC-II	220	SS	220 kV 1x160+1x40 MVA Chankhari	14/1st	FY 2025-26	Shift FY 2026-27	Physical progress hampered due to flooding and waterlogging situation & also due to slow work & non deployment of sufficient Man and Machinery by EPC. Notice has been issued to the firm.
22	TSC	Mahoba	RTM-GEC-II	220	SS	220 kV 1x160+1x40 MVA Jaitpur	14/4th	FY 2025-26	Shift FY 2026-27	Physical progress hampered due to flooding and waterlogging situation & also due to slow work & non deployment of sufficient Man and Machinery by EPC. Notice has been issued to the firm.
23	TSC	Mahoba	RTM-GEC-II	220	SS	220 kV 1x160+1x40 MVA Kabarai	14/4th	FY 2025-26	Shift FY 2026-27	Physical progress was largely hampered due to severe flooding and waterlogging situation & also due to slow work by EPC in last 3-4 months. Notice has been issued to the firm for slow progress.
24	TSE	Fatehpur	TBCB	220	SS	220 kV 2x160+2x40 MVA Khaja	14/9th	FY 2025-26	Shift FY 2026-27	Delay in Executing by the firm
25	TW	Gautam Buddha Nagar	TBCB	400	SS	400 kV 2x500 MVA Metro Depot (Greater Noida)	14/6th	FY 2025-26	Energised	02.12.2025
26	TSE	Varanasi	TBCB	220	SS	220 kV 2x60 MVA Varanasi Cantt	14/9th	FY 2025-26	Shift FY 2026-27	Delay in Execution by the firm
27	TW	Gautam Buddha Nagar	TBCB	400	SS	400/220/132 kV 2x500 MVA GIS Jewar	14/6th	FY 2025-26	Shift FY 2026-27	Delay in Execution by the firm

Sr. No.	Zone	District	Mode of Ex.	Voltage (kV)	S/s/ Line	Name of S/s	TWC	RTP FY 2025-30	Current Status	Reasoning/remark
28	TSW	Kannauj	TBCB	220	SS	220 kV 2x160+2x63 MVA Tirwa	13/53th	FY 2025-26	Shift FY 2026-27	Delay in Execution by the firm
29	TW	Ghaziabad	TBCB	220	SS	220 kV 3x60 MVA Vasundhra	14/9th	FY 2025-26	Shift FY 2026-27	Delay in Execution by the firm
30	TW	Gautam Buddha Nagar	TBCB	400	SS	400/220/132 kV 2x500 MVA GIS Jalpura (Greater Noida)	14/6th	FY 2025-26	Shift FY 2026-27	
31	TC	Lucknow	Deposit	220	SS	220 kV 2x160+4x63 MVA Mohan Road	14/2nd	FY 2026-27	Shift FY 2027-28	LDA deposited Money June 2025, Tender Awarded in Aug-2025
32	TSE	Prayagraj	Deposit	220	SS	220/33 kV 3x60 MVA Naini UPSIDC	7th FY 25-26	FY 2026-27	Shift FY 2027-28	Delay in land handover by UPSIDA to UPPTCL, Delay in land handover by UPSIDA to UPPTCL. The name has been changed to 220/33kV 4x60MVA GIS Sarraori Hi-tech
33	TC	Bareilly	RTM	132	SS	132/33 kV 2x63 MVA Ram Ganga Nagar Vihar	Awaited	FY 2026-27	Shift FY 2027-28	Due to unavailability of Land
34	TC	Sultanpur	RTM	132	SS	132/33 kV 2x40 MVA Asoga	Awaited	FY 2026-27	Shift FY 2027-28	Delay due to 33kV Feeder details not received from Discom.
35	TC	Unnao	RTM	220	SS	Upgradation of 132 kV Kundan Road S/s to 220 kV 2x160 MVA Level	Awaited	FY 2026-27	Shift FY 2027-28	Delay due to Line feasibility awaited from field.
36	TNE	Deoria	RTM	132	SS	132/33 kV 2x40 MVA Narayanpur	6th FY 2025-26	FY 2026-27	Shift FY 2027-28	Delay due to Line feasibility awaited from field.
37	TNE	Deoria	RTM	132	SS	132/33 kV 2x40 MVA Bhatparrani	Awaited	FY 2026-27	Shift FY 2027-28	Originally these two new SS, were planned to be source from proposed 220kV Barhaj SS. Due to land issue 220kV
38	TW	Bijnor	RTM	132	SS	132/33 kV 2x40 MVA Swahera	Awaited	FY 2026-27	Shift FY 2027-28	Source is unavailable due to non construction of 220kV line
39	TW	Meerut	RTM	132	SS	132/33 kV 2x40 MVA Parikshitgarh	Awaited	FY 2026-27	Shift FY 2027-28	Delay due to availability of 4nos. 33kV feeder bay created at 220kV Mawana S/s to supply Parikshitgarh area.
40	TW	Moradabad	RTM	132	SS	132/33 kV 2x40 MVA Dilari	Awaited	FY 2026-27	Shift FY 2027-28	Source will be available after U/G of 132kV Tanda to 220 kV level.
41	TW	Saharanpur	RTM	132	SS	132/33 kV 2x40 MVA Muzaffarabad	Awaited	FY 2026-27	Dropped	Based on field inputs, the request is deferred to FY 2029–30 and it is dropped due to non-requirement till FY 2029–30.
42	TW	Sambhal	RTM	132	SS	132/33 kV 2x40 MVA Bahjoi	12/34th	FY 2026-27	Shift FY 2027-28	Delay due to land dispute
43	TSC	Hamirpur	RTM-GEC-II	220	SS	220 kV 2x160+2x40 MVA Hamirpur	14/1st	FY 2028-27	FY 2026-27	Physical progress hampered due to flooding and waterlogging situation & also due to slow work & non deployment of sufficient Man and Machinery by EPC. Notice has been issued to the firm.
44	TSC	Lalitpur	RTM-GEC-II	765	SS	765 kV 1x1500+2x500 MVA Talbehat	14/9th	FY 2026-27	FY 2026-27	Supply of 3 no. transformer is completed Line work completed, safety clearance NOC received. Line will be charged on a rated voltage after completion of 765 kV S/s Talbehat which is expected to be completed by 31.01.2027.
45	TSW	Farrukhabad	RTM-GEC-II	400	SS	400 kV 2x500+2x160 MVA Farrukhabad	14/9th	FY 2026-27	FY 2026-27	01 no. 500 MVA transformer energized on 01.05.2026
46	TC	Barabanki	TBCB	220	SS	220/132/33 kV 2x160+2x40 MVA Shahpur	Awaited	FY 2026-27	Shift FY 2027-28	Due to unavailability of land
47	TC	Unnao	TBCB	220	SS	220/132 kV 2x100 MVA GIS Bangarmau	Dropped	FY 2026-27	Dropped	Additional ckt has been provided from 220kV Mallawan
48	TC	Unnao	TBCB	220	SS	220/132 kV 2x160 MVA GIS Maurawa	Awaited	FY 2026-27	Shift FY 2027-28	Due to unavailability of land
49	TNE	Deoria	TBCB	220	SS	220/132 kV 2x160+2x40 MVA Barhaj	Awaited	FY 2026-27	Dropped	Change in Scheme- 220 kV Barhaj S/s change in to Up-gradation of 132kV Salempur S/s to 220kV level taken up.
50	TNE	Mau	TBCB	220	SS	220/132/33 kV 2x160+2x40 MVA Rasra	14/20th	FY 2026-27	Shift FY 2027-28	Bidding in process under TBCB.
51	TW	Gautam Buddha Nagar	TBCB	220	SS	220/33 kV 2x60 MVA Surajpur-II	Dropped	FY 2026-27	Dropped	Due to 220 kV KP-5, 220 kV Metro Depot & 220 kV Jalpura
52	TW	Rampur	TBCB	220	SS	Up-gradation of existing 132kV Tanda to 220kV 2x160+2x40MVA		FY 2026-27	Shift FY 2027-28	TWC approval awaited
53	TW	Gautam Buddha Nagar	Deposit	220	SS	220 kV 2x160+2x63 MVA YEIDA Sector-28	14/3rd	FY 2027-28	FY 2027-28	Land handover in march 2025 and money has to be deposited yet while tender awarded in feb. 2025.
54	TC	Budaun	RTM	220	SS	220/33 kV 2x60 MVA Badaun-II (Bisauli)	Awaited	FY 2027-28	Dropped	Due to unavailability of land in place of 220 kV Budaun II SS and due to Up of 132kV Bisauli SS to 220kV level in FY 2028-29.
55	TC	Raibareilly	RTM	132	SS	132/33 kV 2x40 MVA Gurbakhsh	3rd FY 2025-26	FY 2027-28	FY 2027-28	3rd TWC FY 2025-26 dated 18.09.2025 Land Status Available submitted in Hon'ble UPERC for approval.
56	TC	Sitapur	RTM	132	SS	132/33 kV 2x40 MVA Bhuwanpur	Awaited	FY 2027-28	FY 2027-28	TWC is awaited
57	TC	Unnao	RTM	132	SS	132/33 kV 2x40 MVA Bighapur-II	Awaited	FY 2027-28	Dropped	220kV Maurawan is planned in FY 2028-29.
58	TNE	Azamgarh	RTM	132	SS	132/33 kV 2x40 MVA Sarai Mir	Awaited	FY 2027-28	Dropped	Due to the up-gradation of Atmalia Substation, the additional load of Phoolpur S/s will be catered from Atmalia S/s, hence, Sarai Meer S/s is not required.

Sr. No.	Zone	District	Mode of Ex.	Voltage (kV)	S/ Line	Name of S/s	TWC	RTP FY 2025-30	Current Status	Reasoning/remark
59	TNE	Ballia	RTM	132	SS	132/33 kV 2x63 MVA Padarathpur (Maithuvan) (Sirsain Bahbra Road)	14/10th, 6th FY 2025-25	FY 2027-28	FY 2027-28	6th TWC FY 25-26 dated 12.12.2025 Land Status Available submitted to Hon'ble UPERC for approval.
60	TSE	Pratapgarh	RTM	132	SS	132 kV 2x40 MVA Kuswapur S/s	Awaited	FY 2027-28	FY 2027-28	In place of 132kV Kuswapur Upgradation of 132/33 kV Sarsou to 220kV 2x160 MVA Level is planned
61	TW	Muzaffarnagar	RTM	132	SS	132 kV 2x40 MVA Bhatauna	Awaited	FY 2027-28	Dropped	Due to 132kV Sujroo SS in RTM requirement of 132kV Bhatauna is not required. submitted in Hon'ble UPERC for approval. Land will be provided by PVVNL
62	TW	Rampur	RTM	132	SS	132/33 kV 2x40 MVA Nahabganj	Awaited	FY 2027-28	Dropped	Due to planning of Creation of 132 kV level on 765/400/220 kV Rampur 2x160 MVA in FY 2028-29
63	TSC	Chitrakoot	RTM-GEC-II	400	SS	400 kV 2x500 MVA Chitrakoot	14/13th	FY 2027-28	FY 2027-28	LOI issued, Land handover completed and demarcation work in process.
64	TC	Ambedkar nagar	TBCB	220	SS	220/132 kV 2x160+2x40 MVA Akbarpur	Awaited	FY 2027-28	Shift FY 2028-29	Due to unavailability of land existing 132kV Akbarpur is to be upgraded at 220kV 2x160 level in FY 2028-29
65	TC	Barabanki	TBCB	220	SS	220/132/33 kV 2x160+2x40 MVA Deviganj (between Ramsnehi Ghat- Haidardarh)	Dropped	FY 2027-28	Dropped	Already planned 220 kV Shahpur in FY 2027-28 & Ulg of 132 kV Jagdishpur S/s (Amethi) in FY 2028-29
66	TSE	Chandauli	TBCB	220	SS	220 kV 2x160+2x40 MVA Amra	Awaited	FY 2027-28	Shift FY 2028-29	Shifted due to unavailibility of land
67	TSE	Jaunpur	TBCB	220	SS	220/132/33 kV 2x160+2x40 MVA Jaunpur-II	Awaited	FY 2027-28	Shift FY 2028-29	Shifted due to unavailibility of land
68	TSE	Mirzapur	TBCB	220	SS	Up-gradation of existing 132kV Chunar to 220/132/33 kV 2x160+2x40 MVA AIS Chunar	14/18th, 1st FY 2025-26	FY 2027-28	FY 2027-28	1st TWC dated 03.05.2025, submitted in Hon'ble UPERC for approval
69	TSE	Sonbhadra	TBCB	220	SS	220/132 kV 2x160+2x63 MVA Robertganj-II	Dropped	FY 2027-28	Dropped	Dropped due to the Solar Power connectivity is not comissioning in Sonbhadra region.
70	TSW	Agra	TBCB	220	SS	200/132 kV 2x160+2x40 MVA Agra-II	Awaited	FY 2027-28	Shift FY 2028-29	Shifted due to unavailibility of land
71	TW	Bijnor	TBCB	220	SS	220 kV 2x160+2x40 MVA Nehtaur-II	Dropped	FY 2027-28	Dropped	Due to planning of Extension of 400 kV Nehtaur to 220 kV 2x160 MVA Level in FY 2029-30
72	TW	Gautam Buddha Nagar	TBCB	400	SS	400 kV 3x500 MVA YEIDA Sector-28 with 125 MVAR Bus Reactor and 400 kV GIS Bay* at 765/400 kV Aligarh S/s (PGCIL)- 02 nos.	14/10th, 1st FY 2025-26	FY 2027-28	Shift FY 2028-29	Due to change in connectivity by CEA revised approval is submitted Hon'ble UPERC . Land handover in march 2025
73	TW	Hapur	TBCB	220	SS	220/33 kV 3x60 MVA Simbholi-II	Awaited	FY 2027-28	Dropped	Due to unavailability of land In place of 220 kV 220kV Simbholi II SS U/G of 132kV Lakhaoti SS to 220kV level taken up in FY 2028-29.
74	TW	Muzaffarnagar	RTM	132	SS	132/33 kV 2x40 MVA Shahpur	Awaited	FY 2027-28	Dropped	Drop due to construction of planned 132kV Sujroo S/s .
75	TSE	Varanasi	RTM	132		132/33 kV 2x40 MVA Behua		FY 2027-28	Dropped	Drop due to cater by existing 220kV Rhadohi
76	TC	Bahraich	RTM	220	SS	Upgradation of 132 kV Nanpara to 220 kV 2x160 MVA Level	Awaited	FY 2028-29	FY 2028-29	To cater upcoming load of TSS, Nanpara S/s, Provide source to Begampur S/s & also power supply to Nepal.
77	TC	Raibareilly	RTM	220	SS	Upgradation of Existing 132 kV Dalmau to 220 kV 2x160 MVA Level	Awaited	FY 2028-29	Shift FY 2029-30	Due to delay in construction of 400kV Sirsira ,Raebareli.
78	TSC	Kanpur Nagar	RTM	132	SS	132/33 kV 2x40 MVA Shyam Nagar	Awaited	FY 2028-29	Dropped	Load in the region will be catered by planned augmentation at 220/33 kV Phoolbagh GIS 2x60 To 3x60 MVA
79	TSE	Mirzapur	RTM	400	SS	Upgradation of 220 kV Mirzapur to 400 kV 2x500 MVA Level	Awaited	FY 2028-29	Shift FY 2029-30	Delay due to land finalization for 765 kV Marzapur pooling S/s.
80	TW	Bijnor	RTM	220	SS	Extention of 400 kV Nehtaur to 220 kV 2x160 MVA Level	Awaited	FY 2028-29	Shift FY 2029-30	TWC proposal awaited
81	TW	Ghaziabad	RTM	132	SS	132/33 kV 2x40 MVA Karera	Awaited	FY 2028-29	Dropped	Drop as per requirement from UPPCL was withdrawn
82	TW	Saharanpur	RTM	132	SS	132/33 kV 2x40 MVA Chilkana	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land .
83	TC	Barabanki	TBCB	400	SS	400/220 kV 2x500+2x160 MVA Barabanki	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land .
84	TC	Lucknow	TBCB	400	SS	400/220 kV 2x500 MVA Sultanpur Road	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land .
85	TC	Lucknow	TBCB	400	SS	400/220 kV 2x500 MVA Amrai API (IT City)	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land .
86	TC	Lucknow	TBCB	400	SS	400 kV 2x315 MVA Daud Nagar (Nagram Road)	Dropped	FY 2028-29	Dropped	Due to 400kV IT City S/s Planned for LDA in FY 2028-29
87	TC	Sitapur	TBCB	400	SS	400/220 kV 2x500+2x160 MVA Sitapur	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land .
88	TSE	Ghazipur	TBCB	400	SS	400 kV 2x500 MVA Ghazipur	Awaited	FY 2028-29	Shift FY 2030-31	Due to unavailability of land .
89	TSW	Etawah	TBCB	400	SS	400 kV 2x500+2x160 MVA Bhartbana	Awaited	FY 2028-29	Shift FY 2030-31	Due to unavailability of land .
90	TSW	Mainpuri	TBCB	220	SS	220/132 kV 2x160 MVA Mainpuri-II	Awaited	FY 2028-29	FY 2028-29	TWC proposal awaited

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Sr. No.	Zone	District	Mode of Ex.	Voltage (kV)	S/ Line	Name of S/s	TWC	RTP FY 2025-30	Current Status	Reasoning/remark
91	TSW	Mathura	TBCB	220	SS	200/33 kV 2x60 MVA Mathura New (Near Kosikalan)	Awaited	FY 2028-29	Dropped	On demand of Aligarh Development authority 220kV Aligarh New is planned in FY 2028-29
92	TC	Budaun	RTM	220	SS	Upgradation of Existing 132 kV Bisauli to 220 kV 2x160 MVA Level	Awaited	FY 2028-29	FY 2028-29	Due to unavailability of land In place of 220 kV Badaun II S/s U/G of Bisauli S/s takeinup.
93	TC	Lucknow	TBCB	765	SS	765/400 kV 2x1500 MVA Sultanpur Road	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land .
94	TNE	Mirzapur	RTM	765	SS	765/400 kV 2x1500 MVA Mirzapur (Pooling Point)	Awaited	FY 2028-29	Shift FY 2029-30	Due to unavailability of land .
95	TC	Unnao	RTM	132	SS	Creation of 132/33 kV 2x40 MVA Level at Dahi Chowki 220/33 kV 2x60 MVA	Awaited	FY 2029-30	Shift FY 2030-31	Delay as per request of UPPCL
96	TSC	Kanpur Dehat	RTM	132	SS	132/33 kV 2x40 MVA Arshadpur	Awaited	FY 2029-30	Dropped	To reduce the length of the 33 kV feeder and strengthen the system, the location has been shifted from Arshadpur to Shivali as per field requirements.
97	TSC	Kanpur Dehat	RTM	132	SS	132/33 kV IIT Kanpur S/s	Awaited	FY 2029-30	Dropped	Due to 132kV IIT Kanpur S/s approved in 1st FY 2025-26 TWC meeting in deposit
98	TW	Meerut	RTM	132	SS	132/33 kV 2x40 MVA Basti Town	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
99	TW	Muzaffarnagar	RTM	132	SS	132kV 2x40 MVA Bhatauna		FY 2029-30	Dropped	Due to 132kV Sujroo SS in RTM requirement of 132kV Bhatauna is not required. submitted in Hon'ble UPERC for approval. Land will be provided by PVVNL
100	TSE	Azamgarh	RTM	220	SS	Upgradation of 132 kV Phoolpur to 220 kV 2x160 MVA Level	Awaited	FY 2029-30	Dropped	Dropped due to revision demand of UPPCL
101	TSE	Sonebhadra	RTM	400	SS	Upgradation of 220 kV Robertsganj to 400/220 kV 2x500 MVA Level	Awaited	FY 2029-30	Shift FY 2030-31	TWC proposal awaited
102	TC	Barabanki	TBCB	220	SS	220/132 kV 2x160+2x40 MVA Haidergarh	Awaited	FY 2029-30	Shift FY 2030-31	Due to unavailability of land
103	TC	Gonda	TBCB	220	SS	220/132 kV 2x160+2x40 MVA Colonelganj-II	Awaited	FY 2029-30	Shift FY 2030-31	Due to unavailability of land & requirement of Discom.
104	TC	Shahjahanpur	TBCB	220	SS	220/132 kV 2x160+2x40 MVA Powayan	Awaited	FY 2029-30	Shift FY 2030-31	To be connected with proposed 400kV Sitapur
105	TC	Unnao	TBCB	220	SS	220/132 kV 2x160+2x40 MVA Chakalbanshi	Awaited	FY 2029-30	Shift FY 2030-31	Due to unavailability of land
106	TNE	Azamgarh	TBCB	220	SS	220/132 kV 2x160+2x40 MVA Atrauli	Awaited	FY 2029-30	Dropped	Due to unavailability of land up-gradation of 132kV Atrauli to 220kV level is planned FY 2029-30
107	TNE	Basti	TBCB	220	SS	220 kV 3x60 MVA Meerut By Pass	Awaited	FY 2029-30	Shift FY 2030-31	Due to unavailability of land
108	TNE	Jaunpur	TBCB	220	SS	220/132 kV 2x160+2x40 MVA Shahganj	Awaited	FY 2029-30	Shift FY 2030-31	Due to unavailability of land
109	TSC	Kanpur Dehat	TBCB	220	SS	220/132 kV 2x160+2x40 MVA Rasoolabad	Awaited	FY 2029-30	Dropped	Load of the region will be cater by 220kV Tirwa
110	TSC	Kanpur Nagar	TBCB	220	SS	220/132/33 kV 2x160+2x40 MVA Nawabganj	Awaited	FY 2029-30	Dropped	Due to 132kV IIT Kanpur S/s deposit approved in 1st FY 2025-26 TWC meeting
111	TW	Aligarh	TBCB	220	SS	220/132 kV 2x160+2x40 MVA Khair-II	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
112	TW	Bijnor	TBCB	220	SS	220/132 kV 2x160+2x40 MVA Tajpur-II	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
113	TW	Gautam Buddha Nagar	TBCB	220	SS	220/132 kV 2x160 MVA Ecotech (Greater Noida)	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
114	TW	Gautam Buddha Nagar	TBCB	220	SS	220/132 kV 2x160 MVA Builder Area (Greater Noida)	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
115	TW	Gautam Buddha Nagar	TBCB	220	SS	220/132 kV 2x160 MVA Sector-2 (Greater Noida)	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
116	TW	Gautam Buddha Nagar	TBCB	220	SS	220/132 kV 2x160+2x40 MVA Birsndi (Greater Noida)	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
117	TW	Moradabad	TBCB	220	SS	220kV 2x160+2x40 MVA Moradabad II	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited
118	TSC	Kanpur Nagar	TBCB	400	SS	400/220/132 kV 2x500+2x160 MVA Panki-II	Awaited	FY 2029-30	FY 2029-30	TWC proposal awaited