



सेंद्रल ट्रान्समिशन यटिलिटी ऑफ इंडिया लिमिटेड

(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)

(भारत सरकार का उद्यम)

CENTRAL TRANSMISSION UTILITY OF INDIA LTD.

(A wholly owned subsidiary of Power Grid Corporation of India Limited)

(A Government of India Enterprise)

Ref. No.: C/CTU/AI/00/22nd CCTP

20th January 2025

OFFICE MEMORANDUM

Sub: Inter-State Transmission Schemes (costing up to Rs.100 Cr.) to be taken up for implementation under Regulated Tariff Mechanism (RTM).

The undersigned is directed to inform that CTU has approved the implementation of the following ISTS costing less than or equal to Rs.100 Cr. in line with the MoP office order dated 28.10.2021 under the Regulated Tariff Mechanism (RTM) mode by the implementing agencies as indicated in the table below:

Sl. No.	Name of Transmission Scheme	Implementing Agency
Northern Region		
1.	Augmentation of transformation capacity at 765/400/220kV Bikaner-III PS in Rajasthan by 1x500 MVA, 400/220kV ICT (6th)	POWERGRID Bikaner Neemrana Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)
2.	Augmentation of transformation capacity at 400/220kV Bikaner-II PS in Rajasthan by 1x500 MVA, 400/220kV ICT (10th)	POWERGRID Bikaner Transmission System Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)
3.	Augmentation of transformation capacity at 765/400/220kV Agra (PG) S/s in Uttar Pradesh by 1x500 MVA, 400/220kV ICT (3 rd)	Power Grid Corporation of India Ltd.
4.	Augmentation of transformation capacity at 400/220kV Mandola (PG) S/s in Uttar Pradesh by 1x500 MVA, 400/220kV ICT (5th)	Power Grid Corporation of India Ltd.
5.	Implementation of 1 no. of 400 kV line bay at 765/400/220kV Fatehgarh-IV (sec-2) PS for interconnection of 600MW REGS of M/s ReNew Solar Power Pvt. Ltd.	Rajasthan IV A Power Transmission Limited (a 100% wholly owned subsidiary of M/s Apraava Energy Pvt. Ltd.).
6.	Augmentation of transformation capacity at 765/400/220kV Bhadla-II PS in Rajasthan by 1x500 MVA, 400/220kV ICT (4 th) to cater the N-1 contingency requirement	Power Grid Corporation of India Ltd.
Western Region		
7.	Transmission scheme for providing connectivity to REGS at Bhuj PS:	Power Grid Corporation of India Ltd.

	A. Augmentation of transformation capacity at 400/220kV Bhuj PS in Gujarat by 1x500 MVA, 400/220kV ICT (10th) B. Implementation of 220kV line bays at Bhuj PS for Interconnection of 600MW REGS	
8.	Network expansion at 765/400/220kV Kurawar S/s for drawal of power by MPPTCL	Rajasthan IV H1 Power Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)
9.	Implementation of 2 nos. 220kV bays at Vapi-II S/s (MUML) for drawl of power by GETCO	Mumbai Urja Marg Ltd. [erstwhile Vapi-II North Lakhimpur Transmission Ltd (a subsidiary of Sterlite Grid 4 Ltd.)].

The detailed scope of works for the above transmission schemes is given at **Annexure-I**.

The above transmission schemes are awarded to the Implementing Agency for its implementation under RTM mode. The implementing agency shall enter into a concession agreement with CTU for the implementation of the above-mentioned transmission schemes through the Regulated Tariff Mechanism (RTM).

This issues with the approval of Competent Authority.

(Partha Sarathi Das)
Sr. General Manager

Encl: as stated.

To:

1. The Chairman & Managing Director Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001	2. POWERGRID Bikaner Neemrana Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) Saudamini, Plot No. 2, Sector-29, Gurgaon – 122009
3. POWERGRID Bikaner Transmission System Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) Saudamini, Plot No. 2, Sector-29, Gurgaon – 122009	4. Rajasthan IV H1 Power Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.) Saudamini, Plot No. 2, Sector-29, Gurgaon – 122009
5. Rajasthan IV A Power Transmission Ltd. (a 100% wholly owned subsidiary of M/s Apraava Energy Pvt. Ltd.) T-15A, Third Floor, Salcon Rasvilas, Saket, New Delhi – 110 017 bitika.kaur@apraava.com ashish.kundra@apraava.com	6. Mumbai Urja Marg Ltd. [erstwhile Vapi-II North Lakhimpur Transmission Ltd (a subsidiary of Sterlite Grid 4 Ltd.)]. DLF Cyber park, Tower-B, 9 th Floor, Udyog Vihar Phase-III, Sector-20, Gurugram – 122008. tan.reddy@sterlite.com ; balaji.sivan@sterlite.com ;

Copy to:

1. Shri B.S. Bairwa Chief Engineer (I/c) & Member Secretary (NCT) Central Electricity Authority Sewa Bhawan, R. K. Puram, New Delhi-110 066.	2. Shri Om Kant Shukla Director (Trans) Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110 001
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CC:

1. Managing Director Madhya Pradesh Power Transmission Co. Ltd. Block. No. 2, Shakti Bhawan, Rampur, Jabalapur – 482 008 ce.ehtc@mptransco.nic.in ; ce.pnd@mptransco.nic.in ; mmdhoke@gmail.com ;	<i>With a request to take up the implementation of 220kV & 132kV feeders in matching timeframe of the ISTS bays at Kurawar S/s, as per transmission scheme mentioned at sl. no. 8.</i>
2. Managing Director Gujarat Energy Transmission Corporation Ltd. Sardar Patel Vidhyut Bhawan, Race Course, Vadodara – 390 007. md.getco@gebmail.com ; acerc.getco@gebmail.com ; stu.getco@gebmail.com ;	<i>With a request to take up the implementation of LLO of Chikhli – Vapi 220kV S/c line at Vapi-II S/s in matching timeframe of 2 nos. 220kV line bays at Vapi-II S/s, as per transmission scheme mentioned at sl. no. 9.</i>

<p>3. Director(W&P) UP Power Transmission Company Ltd. Shakti Bhawan Extn, 3rd floor, 14, Ashok Marg, Lucknow-226 001 director_project@upptcl.org; setppssn@gmail.com;</p>	<p><i>For kind information, please.</i></p>
<p>4. Director (Operations) Delhi Transco Ltd. Shakti Sadan, Kotla Road, New Delhi-110 002 dir.opr@dtl.gov.in; managersystemstudy1@gmail.com;</p>	<p><i>For kind information, please.</i></p>

Northern Region

1. Augmentation of transformation capacity at 765/400/220kV Bikaner-III PS in Rajasthan by 1x500 MVA, 400/220kV ICT (6th)

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.
1.	Augmentation of transformation capacity at 765/400/220kV Bikaner-III by 1x500 MVA, 400/220kV ICT (6 th) along with associated bays	<ul style="list-style-type: none"> • 500 MVA, 400/220 kV ICT- 1 no. • 400 kV ICT bay (including associated tie bay)- 1 no. • 220 kV ICT bay- 1 no. 	18 months from the date of issuance of OM by CTUIL i.e. 20/07/2026.
Total Estimated Cost:			₹ 49.60 Crore

2. Augmentation of transformation capacity at 400/220kV Bikaner-II PS in Rajasthan by 1x500 MVA, 400/220kV ICT (10th)

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.
1.	Augmentation of transformation capacity at 400/220kV Bikaner-II by 1x500 MVA, 400/220kV ICT (10 th) along with associated bays.	<ul style="list-style-type: none"> • 500 MVA, 400/220 kV ICT- 1 no. • 400 kV ICT bay (including associated tie bay) - 1 no. • 220 kV ICT bay- 1 no. • 400kV Bus extension works (for 2 no. diameters) – 1 set 	18 months from the date of issuance of OM by CTUIL i.e. 20/07/2026.
Total Estimated Cost:			₹ 50.71 Crore

3. Augmentation of transformation capacity at 765/400/220kV Agra (PG) S/s in Uttar Pradesh by 1x500 MVA, 400/220kV ICT (3rd)

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.
1.	Augmentation of transformation capacity at 765/400/220kV Agra (PG) S/s by 1x500 MVA, 400/220kV ICT (3 rd) along with associated bays.	<ul style="list-style-type: none"> • 500 MVA, 400/220 kV ICT- 1 no. • 400 kV ICT bay (in existing diameter) - 1 no. • 220 kV ICT bay (Hybrid GIS) - 1 no. • 220kV Cable for interconnection – 2 km (approx.) • 220kV Cable Termination Kit – 1 set 	21 months from the date of issuance of OM by CTUIL i.e. 20/10/2026.
Total Estimated Cost:			₹ 50.72 Crore

4. **Augmentation of transformation capacity at 400/220kV Mandola (PG) S/s in Uttar Pradesh by 1x500 MVA, 400/220kV ICT (5th)**

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.
1.	Augmentation of transformation capacity at 400/220kV Mandola (PG) S/s by 1x500 MVA, 400/220kV ICT (5 th) along with associated bays.	<ul style="list-style-type: none"> • 500 MVA, 400/220 kV ICT- 1 no. • 400 kV ICT bay (including associated tie bay)- 1 no. • 220 kV ICT bay- 1 no. • 220kV Cable (1ph) – 2800 m (4x700m) (approx.) • Cable termination kit 220kV (AIS) Cable: 8 nos. 	18 months from the date of issuance of OM by CTUIL i.e. 20/07/2026.
Total Estimated Cost:			₹ 61.61 Crore

5. **Implementation of 1 nos. of 400 kV line bay at 765/400/220kV Fatehgarh-IV (sec-2) PS for interconnection of 600MW REGS of M/s ReNew Solar Power Pvt. Ltd.**

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.
1.	1 no. of 400 kV line bay at 765/400/220 kV Fatehgarh-IV(Sec-2) PS for interconnection of 600MW REGS of M/s ReNew Solar Power Pvt. Ltd.	<ul style="list-style-type: none"> • 400 kV line bay (in existing diameter) - 1 no. 	07/11/2026
Total Estimated Cost:			₹ 11.42 Crore

6. **Augmentation of transformation capacity at 765/400/220kV Bhadla-II PS in Rajasthan by 1x500 MVA, 400/220kV ICT (4th) to cater the N-1 contingency requirement**

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.
1.	Augmentation of transformation capacity at 765/400/220kV Bhadla-II PS in Rajasthan by 1x500 MVA, 400/220kV ICT (4 th in Section-1A) along with associated bays	<ul style="list-style-type: none"> • 500 MVA, 400/220 kV ICT- 1 no. • 400 kV ICT bay (in existing diameter) - 1 no. • 220 kV ICT bay- 1 no. 	18 months from the date of issuance of OM by CTUIL i.e. 20/07/2026.
Total Estimated Cost:			₹ 42.18 Crore

Western Region

7. **Transmission scheme for providing connectivity to REGS at Bhuj PS:**

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.	Total Estimated Cost
A. Augmentation of transformation capacity at 400/220kV Bhuj PS in Gujarat by 1x500 MVA, 400/220kV ICT (10th)				
1.	Augmentation of transformation capacity at 400/220kV Bhuj PS in Gujarat by 1x500 MVA, 400/220kV ICT (10 th) along with associated transformer bays	<ul style="list-style-type: none"> • 500 MVA, 400/220 kV ICT- 1 no. • 220 kV ICT bay (Hybrid GIS)- 1 no. • 220kV GIB Duct (1ph) – 1200m (3x400m) (approx.) • 220kV Air Bushing for connecting GIS to AIS – 3 nos. • Shifting of existing Bus Reactor from 415 bay to 413 bay – 1 no. • 400 kV Reactor Bay no. 413 (in existing diameter) (AIS) - 1 no. 	21 months from the date of issuance of OM by CTUIL (refer note a)	₹ 58.54 Crore
B. Implementation of 220kV line bays at Bhuj PS for Interconnection of 600MW REGS				
2.	Implementation of 2 nos. 220kV line bays at Bhuj PS for Interconnection of 600MW REGS of Indianoil NTPC Green Energy Pvt. Ltd. (INGEPL) (Appl. No. 2200000634)	<ul style="list-style-type: none"> • 220kV Bays (Hybrid/MTS) – 2 Nos. 	21 months from the date of issuance of CTUIL OM	₹ 12.7 Crore
Total Estimated Cost:				₹ 71.24 Crore

Note:

- a. Existing 400kV bus reactor installed in Bay no. 415 shall be shifted to new bay no. 413 (to be constructed under the subject transmission scheme) and vacated bay no. 415 shall be used for termination of 400kV side of 500MVA, 400/220kV ICT (10th) at Bhuj PS.

8. Network expansion at 765/400/220kV Kurawar S/s for drawal of power by MPPTCL

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.
1.	4 nos. 220kV line bays at Kurawar S/s (for LILO of both ckts of Bhopal – Shujalpur 220kV D/c line at Kurawar S/s being implemented by MPPTCL)	<ul style="list-style-type: none"> • 220kV line bays – 4 Nos. 	15.10.2026 (refer note a)
2.	9 nos. 132kV line bays at Kurawar S/s for various 132kV lines planned by MPPTCL.	<ul style="list-style-type: none"> • 132kV line bays – 9 Nos. 	
Total Estimated Cost:			₹ 56.06 Crore

Note:

- a. The implementation time-frame of the subject transmission scheme shall be matched with the SCOD of Kurawar S/s being implemented under “Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-H1) (Bikaner Complex)” project.
- b. MPPTCL shall ensure that the implementation of 220kV & 132kV feeders in matching timeframe of the above ISTS bays.
- c. TSP of “Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-H1) (Bikaner Complex)” shall provide space for above scope of work at Kurawar S/s.

9. Implementation of 2 nos. 220kV bays at Vapi-II S/s (MUML) for drawl of power by GETCO

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	2 nos. 220kV bays at Vapi-II S/s (MUML) for LILO of Chikhli – Vapi 220kV S/c line at Vapi-II S/s	<ul style="list-style-type: none">• 220kV line bays – 2 Nos. (GIS)• 245kV GIS Bus Duct (1ph) – 240 meters approx.• 220kV SF6 GIS to AIS Bushing – 6 nos.• New 220kV GIS Building for accommodating 8 Nos. 220kV Bays & associated development works – 600 Sqm.• EOT crane for GIS Building- 1 no.	21 months from the date of issuance of OM by CTUIL i.e. 20/10/2026.
Total Estimated Cost:			₹ 21.46 Crore

Note:

- a. A new 220kV GIS hall to be constructed separate from existing GIS hall, suitable for 8 nos. 220kV Bays (including maintenance space). Any kind of dismantling / rework required for above scope of work shall be under scope of the TSP.