सेंट्रल ट्रांसमिशन यूटिलिटी 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/00/23rd CCTP

08th May 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
Western Region		
1.	Installation of 765kV 1x80MVAr 1-phase hot spare reactor at Raigarh (Kotra) S/s for 3x80MVAr 765kV BR #2 on 765kV Bus Section A	Power Grid Corporation of India Ltd.
Northern Region		
2.	Augmentation of Transformation capacity at 400/220kV Jaipur South (PG) S/s in Rajasthan by 1x500MVA ,400/220kV ICT (3rd)	Power Grid Corporation of India Ltd.
3.	Augmentation of transformation capacity at 400/220kV Neemrana (PG) in Rajasthan by 1x500 MVA, 400/220kV ICT (3rd)	Power Grid Corporation of India Ltd.
4.	Augmentation of transformation capacity at 400/220kV Lucknow (PG) S/s in Uttar Pradesh by 1x500 MVA, 400/220kV ICT (3rd)	Power Grid Corporation of India Ltd.
5.	Implementation of 3 nos. of 220 kV line bays for interconnection of M/s Furies Solren Private Limited (300MW) [1 no. bay] & M/s SJVN Green Energy Limited (500MW) [2 no. bays] RE power projects at 765/400/220kV Bikaner-IV PS	POWERGRID Bikaner IV Transmission Limited *(erstwhile Bikaner A Power Transmission Limited) (a 100% wholly owned subsidiary of Power Grid Corporation of India Ltd.)*
6.	Implementation of 1 no. of 220 kV line bay at 765/400/220kV Barmer-I PS for interconnection of M/s Anboto Solar Private Limited(250MW+50MW) RE power projects	POWERGRID Barmer I Transmission Ltd. *(a 100% wholly owned subsidiary of Power Grid Corporation of India Ltd.)*
Southern Region		
7.	Augmentation of Transformation capacity at 400/220kV Nagarjunasagar S/s in Andhra Pradesh by 1x500MVA ,400/220kV ICT (4th)	Power Grid Corporation of India Ltd.
8.	Conversion of 80 MVAr fixed line reactor at Nellore end on Vijayawada – Nellore 400kV D/c line (Line-2) to switchable line reactor along with NGR and its bypassing scheme	Power Grid Corporation of India Ltd.

9.	Implementation of 2 nos. of 220kV line bays at Tumkur (Pavagada) PS for providing Connectivity to various RE generation projects	Power Grid Corporation of India Ltd.
10.	Augmentation of transformation capacity at 400/220kV Kozhikode S/s in Kerala by 500 MVA 400/220kV ICT (4th)	Power Grid Corporation of India Ltd.
11.	Augmentation of transformation capacity at 400/220kV Trivandrum S/s in Kerala by 500 MVA 400/220kV ICT (4th)	Power Grid Corporation of India Ltd.
12.	Augmentation / replacement of existing 400/230kV, 315 MVA ICT-2 with 1x500 MVA ICT at Udumalpet 400/230kV S/s	Power Grid Corporation of India 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 IV Transmission Limited** *(erstwhile Bikaner A Power Transmission Limited) (a 100% wholly owned subsidiary of Power Grid Corporation of India Ltd.)* Saudamini, Plot No. 2, Sector-29, Gurgaon – 122009
3. **POWERGRID Barmer I Transmission Ltd.** *(a 100% wholly owned subsidiary of Power Grid Corporation of India Ltd.)* Saudamini, Plot No. 2, Sector-29, Gurgaon – 122009	

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 (Transmission) Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110 001

CC:

1. 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;	*For kind information, please.*
2. Director (Technical) Rajasthan Rajya Vidyut Prasaran Nigam Ltd. Vidyut Bhawan, Jaipur, Rajasthan-302005. *dir.tech@rvpn.co.in*	*For kind information, please*
3. Director (Transmission) Transmission Corp. of Andhra Pradesh Ltd. (APTRANSCO) Vidyut Soudha, Gunadala, Eluru Rd, Vijayawada, Andhra Pradesh – 520 004 kannanvenkatabhaskar.angulabharanam@aptransco.co.in; cepsaptransco@gmail.com	*For kind information, please.*
4. Director (Transmission Projects) Tamil Nadu Transmission Corporation Ltd (TANTRANSCO) 6th Floor, Eastern Wing, 800 Anna Salai, Chennai – 600 002 sess@tnebnet.org; 2014sess@gmail.com	*For kind information, please.*
5. Director (Trans. & System Op.), Kerala State Electricity Board Ltd. Vidyuthi Bhawanam, Pattom, P.B. No. 1028 Thiruvananthapuram – 695 004. dtkseb@kseb.in; pse@kseb.in;	*For kind information, please.*

Annexure-I

Western Region

1. **Installation of 765kV 1x80MVAr 1-phase hot spare reactor at Raigarh (Kotra) S/s for 3x80MVAr 765kV BR #2 on 765kV Bus Section A**

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	765kV 1x80MVAr Single Phase hot spare reactor at Raigarh (Kotra) S/s for 3x80 MVAR 765kV BR #2 on 765kV Bus Section A.	765kV, 80MVAr, 1-ph Reactor (spare) – 1 No.	21 months from the date of issuance of OM by CTUIL i.e. 8-Feb-2027
		Total Estimated Cost:	**₹ 12.33 Crore**

Northern Region

2. **Augmentation of Transformation capacity at 400/220kV Jaipur South (PG) S/s in Rajasthan by 1x500MVA ,400/220kV ICT (3rd)**

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	Augmentation of transformation capacity at 400/220kV Jaipur South (PG) S/s by 1x500 MVA, 400/220kV ICT (3rd) along with associated bays	• 500 MVA, 400/220 kV ICT- 1 no. • 400 kV ICT bay (in existing diameter) - 1 no. • 220 kV ICT bay- 1 no.	21 months from the date of issuance of OM by CTUIL i.e. 8-Feb-2027
		Total Estimated Cost:	**₹ 48.96 Crore**

3. **Augmentation of transformation capacity at 400/220kV Neemrana (PG) in Rajasthan by 1x500 MVA, 400/220kV ICT (3rd)**

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	Augmentation of transformation capacity at 400/220kV Neemrana (PG) by 1x500 MVA, 400/220kV ICT (3rd) along with associated bays	• 500 MVA, 400/220 kV ICT- 1 no. • 400 kV ICT bay (in existing diameter) - 1 no. • 220 kV ICT bay- 1 no.	21 months from the date of issuance of OM by CTUIL i.e. 8-Feb-2027
		Total Estimated Cost:	**₹ 48.96 Crore**

4. **Augmentation of transformation capacity at 400/220kV Lucknow (PG) S/s in Uttar Pradesh**

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	Augmentation of transformation capacity at 400/220kV Lucknow (PG) S/s by 1x500 MVA, 400/220kV ICT (3rd) along with associated bays	• 500 MVA, 400/220 kV ICT- 1 no. • 400 kV ICT bay (including associated tie bay) (Outdoor GIS) - 1 No. • 220 kV ICT bay (AIS) - 1 no. • 220kV Bus extension works for 2 nos. future bays - 1 Set • 400kV Bus extension with GIB Duct - 1100 m (approx.) • Interconnection from 220kV Bay to 220kV ICT side through Duct (245kV GIB Duct) – 300 m (approx.) • Associated 400kV & 220kV interconnection works (420kV SF6/Air bushing for Bus extension through GIS Duct & ICT interconnection and 245KV SF6/Air bushing for ICT interconnection)	24 months from the date of issuance of OM by CTUIL i.e. 8-May-2027
		Total Estimated Cost:	**₹ 87.10 Crore**

5. **Implementation of 3 nos. of 220 kV line bays for interconnection of M/s Furies Solren Private Limited (300MW) [1 no. bay] & M/s SJVN Green Energy Limited (500MW) [2 no. bays] RE power projects at 765/400/220kV Bikaner-IV PS**

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	3 nos. of 220 kV line bays at 765/400/220 kV Bikaner-IV PS (1 no. for M/s Furies Solren Private Limited (300MW) & 2 nos. for M/s SJVN Green Energy Limited (500MW)) for interconnection of its RE power projects	• 220 kV Line Bay- 3 nos.	11/11/2026 *(refer note a)*
		Total Estimated Cost:	**₹ 18.54 Crore**

Note:

a. Implementation Timeframe has been aligned with Rajasthan REZ Ph -IV (Part-3: 6 GW) [Bikaner complex]: Part A transmission scheme.

6. Implementation of 1 no. of 220 kV line bay at 765/400/220kV Barmer-I PS for interconnection of M/s Anboto Solar Private Limited (250MW+50MW) RE power projects

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	1 no. of 220 kV line bay for interconnection of M/s Anboto Solar Private Limited (250MW+50MW) RE power projects at 765/400/220kV Barmer-I PS	220 kV line bay - 1 no.	07/11/2026 (refer note a)
		Total Estimated Cost:	**₹ 6.18 Crore**

Note:

a. Implementation Timeframe has been aligned with Rajasthan REZ Ph-IV (Part-2 :5.5 GW) (Jaisalmer/Barmer complex): Part-F transmission scheme.

Southern Region

7. Augmentation of Transformation capacity at 400/220kV Nagarjunasagar S/s in Andhra Pradesh by 1x500MVA ,400/220kV ICT (4th)

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	Augmentation of transformation capacity with 400/220kV, 1x500 MVA ICT (4th) at Nagarjunasagar 400/220kV substation	• 500 MVA, 400/220 kV ICT – 1 No. • Shifting of existing 125 MVAr, 420 kV Bus Reactor from existing Bay No. 404 to new Bay No. 409 - 1 No. • Installation of 4th ICT in existing bay No. 404 • 220kV ICT Bay at 220kV APTRANSCO switchyard – 1 no. • 400kV Reactor Bay No. 409 (in existing diameter) – 1 No. • Interconnection between POWERGRID 400/220 kV switchyard and APTRANSCO 220 kV switchyard • Extension of 220 kV Bus Bar of APTRANSCO for accommodation of 3 Nos. 220 kV Bays (1 No. for 4th ICT and provision for future 2 Nos. line bays) by shifting the Dead-end tower of 400 kV Nagarjunasagar-Kadapa D/c line by approximately 86 meters towards AP2-DD+0 • Dismantling of existing dead-end tower of 400 kV Nagarjunasagar-Kadapa D/c Line and installation of new dead-end tower along with associated stringing & civil works.	24 months from the date of issuance of OM by CTUIL i.e. 8-May-2027
		Total Estimated Cost:	**₹ 57.66 Crore**

Note:

a. Existing 400kV bus reactor installed in Bay No. 404 shall be shifted to new bay no. 409 (to be constructed under the subject transmission scheme) and vacated bay no. 404 shall be used for termination of 400kV side of 500MVA, 400/220kV ICT (4^{h}) at Nagarjunasagar PS.

b. The dismantling / erection of transmission tower of 400 kV Nagarjunasagar - Kadapa D/c line shall be under the scope of transmission licensee.

8. Conversion of 80 MVAr fixed line reactor at Nellore end on Vijayawada – Nellore 400kV D/c line (Line-2) to switchable line reactor along with NGR and its bypassing scheme

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	Conversion of 80 MVAr fixed line reactor at Nellore end on Vijayawada – Nellore 400kV D/c line (Line-2) to switchable line reactor along with NGR and its bypassing scheme.	• Conversion of 80 MVAr fixed line reactor at Nellore end on Vijayawada – Nellore 400kV D/c line (Line-2) to switchable line reactor along with NGR and its bypassing scheme.	18 months from the date of issuance of OM by CTUIL i.e. 8-Nov-2026
		Total Estimated Cost:	**₹ 2.77 Crore**

9. Implementation of 2 nos. of 220kV line bays at Tumkur (Pavagada) PS for providing Connectivity to various RE generation projects

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	1 no. of 220kV line bay at Tumkur (Pavagada) PS for termination of dedicated transmission line of M/s Ayana Renewable Power Pvt. Ltd.	• 220kV line bay – 1 No.	18 months from the date of issuance of OM by CTUIL i.e. 8-Nov-2026
2.	1 no. of 220kV line bay at Tumkur (Pavagada) PS for termination of dedicated transmission line of M/s ACME Solar Holdings Ltd.	• 220kV line bay – 1 No.	31/12/2026
		Total Estimated Cost:	**₹ 12.54 Crore**

10. Augmentation of transformation capacity at 400/220kV Kozhikode S/s in Kerala by 500 MVA 400/220kV ICT (4th)

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	Augmentation of transformation capacity at 400/220kV Kozhikode S/s by 1x500 MVA ICT (4th)	• 1x500 MVA, 400/220kV ICT • 400kV ICT bay (in existing diameter) – 1 No. • 220kV ICT bay – 1 No. • Diversion of 110kV D/c line	21 months from the date of issuance of OM by CTUIL i.e. 8-Feb-2027
		Total Estimated Cost:	**₹ 53.13 Crore**

11. Augmentation of transformation capacity at 400/220kV Trivandrum S/s in Kerala by 500 MVA 400/220kV ICT (4th)

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	Augmentation of transformation capacity at 400/220kV Trivandrum S/s by 1x500 MVA ICT (4th)	• 1x500 MVA, 400/220kV ICT • 400kV ICT bay (including associated Tie Bay) – 1 No. • 220kV ICT bay – 1 No.	21 months from the date of issuance of OM by CTUIL i.e. 8-Feb-2027
		Total Estimated Cost:	**₹ 53.42 Crore**

12. Augmentation / replacement of existing 400/230kV, 315 MVA ICT-2 with 400/230kV, 500 MVA ICT at Udumalpet 400/230kV S/s

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe
1.	Augmentation / replacement of existing 400/230kV, 315 MVA ICT-2 with 400/230kV, 500 MVA ICT at Udumalpet 400/230kV S/s	• 500 MVA, 400/230kV ICT – 1No.	21 months from the date of issuance of OM by CTUIL i.e. 8-Feb-2027
		Total Estimated Cost:	**₹ 37.7 Crore**