



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/00/20<sup>th</sup> CCTP

13<sup>th</sup> September 2024

**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
<b>Northern Region</b>		
1.	Implementation of 2 nos. 220kV line bays at 765/400/220kV Bikaner-III PS for interconnection of 500MW REGS of M/s NTPC Renewable Energy Ltd.	POWERGRID Bikaner Neemrana Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)
2.	Augmentation of transformation capacity at 400/220kV Bhadla-II PS (section-1) in Rajasthan by 1x500 MVA, 400/220kV ICT (6 <sup>th</sup> ) to cater to the N-1 contingency requirements.	Power Grid Corporation of India Ltd.
3.	Augmentation of transformation capacity at 400/220kV Hisar (PG) Substation in Haryana by 1x500 MVA, 400/220kV ICT (4 <sup>th</sup> )	Power Grid Corporation of India Ltd.
<b>Western Region</b>		
4.	Transmission scheme for providing connectivity to Lara TPS-II (2x800MW) of NTPC Ltd. and to control high voltages at 765/400kV Champa PS a. Implementation of 400kV line bays at Champa PS for Interconnection of Lara TPS-II (2x800MW) of NTPC Ltd. b. Transmission Scheme to control high voltages at Champa PS (on Bus Section-A, where Lara TPS-I (2x800MW) of NTPC Ltd. is connected)	Power Grid Corporation of India Ltd.
5.	Augmentation of transformation capacity at 400/220kV Rajgarh(PG) S/s in MP by 400/220kV, 500MVA ICT (4 <sup>th</sup> )	Power Grid Corporation of India Ltd.
6.	Implementation of 2 nos. 765kV line bays at Vataman S/s under ISTS for termination of Saurashtra – Vataman 765kV D/c line of InSTS	Vataman Transmission Ltd. (a subsidiary of Power Grid Corporation of India Ltd.)
<b>Eastern Region</b>		
7.	Eastern Region Expansion Scheme-42	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:**

<b>1. The Chairman &amp; Managing Director</b> Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001	<b>2. POWERGRID Bikaner Neemrana Transmission Ltd.</b> (a subsidiary of Power Grid Corporation of India Ltd.) Saudamini, Plot No. 2, Sector-29, Gurgaon – 122009
<b>3. Vataman Transmission Ltd.</b> (a subsidiary of Power Grid Corporation of India Ltd.) Saudamini, Plot No. 2, Sector-29, Gurgaon – 122009	

**Copy to:**

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

<b>1. Director (Technical)</b> Haryana Vidyut Prasaran Nigam Ltd. Shakti Bhawan, Sector-6, Panchkula-134109, Haryana Emailid: <a href="mailto:cepdcc@hvpn.org.in">cepdcc@hvpn.org.in</a> ; <a href="mailto:xenplg@hvpn.org.in">xenplg@hvpn.org.in</a> ; <a href="mailto:ceplg@hvpn.org.in">ceplg@hvpn.org.in</a> ; <a href="mailto:xenplgss@hvpn.org.in">xenplgss@hvpn.org.in</a>	<i>For kind information, please.</i>
<b>2. Managing Director</b> Gujarat Energy Transmission Corporation Ltd., Sardar Patel Vidyut Bhawan, Race Course, Vadodara – 390 007. <a href="mailto:md.getco@gebmil.com">md.getco@gebmil.com</a> ;	<i>With a request to take up implementation of Saurashtra – Vataman 765kV line in matching timeframe of 2 no. 765kV line bays at Vataman S/s as per transmission scheme mentioned at sl. no. 6.</i>

**Northern Region**

1. **Implementation of 2 nos. 220kV line bays at 765/400/220kV Bikaner-III PS for interconnection of 500MW REGS of M/s NTPC Renewable Energy Ltd.**

<b>Sl. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Item Description</b>	<b>Implementation Timeframe.</b>
1.	2 nos. 220kV line bays at 765/400/220kV Bikaner-III PS for interconnection of 500MW REGS of M/s NTPC Renewable Energy Ltd. (NTPC-REL).	<ul style="list-style-type: none"> <li>• 220 kV line bay – 2 nos.</li> </ul>	31.12.2025
<b>Total Estimated Cost:</b>			<b>₹11.14 Crore</b>

2. **Augmentation of transformation capacity at 400/220kV Bhadla-II PS (section-1) in Rajasthan by 1x500 MVA, 400/220kV ICT (6<sup>th</sup>) to cater to the N-1 contingency requirements**

<b>Sl. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Item Description</b>	<b>Implementation Timeframe.</b>
1.	Augmentation of Transformation capacity at Bhadla-II PS (Section-1) by 1x500MVA, 400/220kV ICT (6th) along with associated bays	<ul style="list-style-type: none"> <li>• 500 MVA, 400/220 kV ICT- 1 no.</li> <li>• 400 kV ICT bay (including associated tie bay) - 1 no.</li> <li>• 220 kV ICT bay- 1 no.</li> <li>• 220kV Cable (1ph) -1 km (approx.)</li> <li>• 220kV Cable termination Kit - 1 Set</li> </ul>	18 months from the date of issuance of OM by CTUIL
<b>Total Estimated Cost:</b>			<b>₹ 59.58 Crore</b>

3. **Augmentation of transformation capacity at 400/220kV Hisar (PG) Substation in Haryana by 1x500 MVA, 400/220kV ICT (4th)**

<b>Sl. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Item Description</b>	<b>Implementation Timeframe.</b>
1.	Augmentation of 400/220 kV, 1x500 MVA (4th) ICT at Hisar (PG) S/s along with associated transformer bays	<ul style="list-style-type: none"> <li>• 500 MVA, 400/220 kV ICT- 1 no.</li> <li>• 400 kV ICT bay (including associated tie bay) - 1 no.</li> <li>• 220 kV ICT bay- 1 no.</li> </ul>	18 months from the date of issuance of OM by CTUIL
<b>Total Estimated Cost:</b>			<b>₹ 49.60 Crore</b>



## Western Region

### 4. Transmission scheme for providing connectivity to Lara TPS-II (2x800MW) of NTPC Ltd. and to control high voltages at 765/400kV Champa PS

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe	Total Estimated Cost
<b>a. Implementation of 400kV line bays at Champa PS for Interconnection of Lara TPS-II (2x800MW) of NTPC Ltd.</b>				
1.	2 nos. 400kV bays at Champa PS (Bus Section B, with KSK 3x600MW Units) for termination of Lara TPS-II – Champa PS 400kV D/c (Quad) line	<ul style="list-style-type: none"> <li>400kV line bays (in existing dia) : 2 Nos. (on Bus Section B, on which KSK 3x600MW Units are connected)</li> </ul>	01.05.2027 (refer note a)	₹ 18.57 Crore
<b>b. Transmission Scheme to control high voltages at Champa PS (on Bus Section-A, where Lara TPS-I (2x800MW) of NTPC Ltd. is connected)</b>				
1.	Installation of 1x240MVA, 765kV Bus Reactor & 1x125MVA, 420kV Bus Reactor at Champa PS (On Bus section-A where Lara-I project is connected)	<ul style="list-style-type: none"> <li>1x240MVA, 765kV Bus Reactor – 1 No.</li> <li>765kV Bus Reactor bay (in existing dia) – 1 No.</li> <li>1x125MVA, 420kV Bus Reactor – 1 No.</li> <li>400kV Bus Reactor bay (in existing dia) – 1 No.</li> </ul>	18 months from the date of issuance of OM by CTUIL.	₹ 79.28 Crore
<b>Total Estimated Cost:</b>				<b>₹ 97.85 Crore</b>

#### Note:

- a. Implementation Timeframe has been aligned with the start date of connectivity as per intimation for in-principle grant of Connectivity to NTPC Ltd. for its Lara TPS-II (2x800MW) (appl. no. 2200000245).

### 5. Augmentation of Transformation Capacity at 400/220kV Rajgarh (PG) S/s in MP by 400/220 kV, 1x500 MVA ICT (4<sup>th</sup>)

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.
1.	Augmentation of Transformation capacity at 400/220kV Rajgarh S/s by 1x500MVA ICT (4 <sup>th</sup> ) (terminated on the sectionalized 220kV bus)	<ul style="list-style-type: none"> <li>400/220kV, 1x500MVA ICT – 1 No.</li> <li>400kV ICT bay (AIS) [including associated tie bay] – 1 No.</li> <li>220kV ICT bay (GIS) – 1 No. (on the sectionalized 220kV bus, which is presently under implementation by POWERGRID)</li> <li>220 kV GIS Bus Duct – 300m. approx.</li> </ul>	31.12.2026 (refer note no. a)
<b>Total Estimated Cost:</b>			<b>₹ 64.17 Crore</b>

**Note:**

- a. Implementation Timeframe has been aligned with the start date of connectivity as per intimation for in-principle grant of Connectivity to Sprng Akshaya Urja Pvt. Ltd. (SAUPL) [67.2MW (appl. no. 2200000133)].

#### 6. Implementation of 2 nos. 765kV line bays at Vataman S/s under ISTS for termination of Saurashtra – Vataman 765kV D/c line of InSTS

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.
1.	Implementation of 2 nos. 765kV line bays at Vataman S/s under ISTS for termination of Saurashtra – Vataman 765kV D/c line of InSTS	• 765kV Bays (including associated tie bays) – 2 Nos.	31.07.2027 (refer note a.)
<b>Total Estimated Cost:</b>			<b>₹ 70.96 Crore</b>

**Note:**

- a. Implementation Timeframe has been aligned with GETCO's requirement for 2 no. 765kV line bays at Vataman S/s for termination of Saurashtra – Vataman 765kV line.

### Eastern Region

#### 7. Eastern Region Expansion Scheme-42 (ERES-42)

Sl. No.	Scope of the Transmission Scheme	Item Description	Implementation Timeframe.
1.	Installation of new 1x500MVA, 400/220kV (3 <sup>rd</sup> ) ICT at Pandiabili (POWERGRID) S/s along with associated bay at 220kV level [using the bay no. 413 at 400kV level, which is already under implementation under ERBS-I scheme]	<ul style="list-style-type: none"> <li>• 500MVA, 400/220kV ICT: 1 no.</li> <li>• 220kV GIS ICT bay: 1 no.</li> <li>• 400kV GIS duct: 250m approx.(1-Ph)</li> <li>• 220kV GIS duct: 100m approx.(1-Ph)</li> </ul>	30/09/2026
<b>Total Estimated Cost:</b>			<b>₹ 45.58 Crore</b>

**Note:**

- a. POWERGRID is inter-alia implementing a full diameter (413-414-415) under ERBS-1 Scheme for termination of one circuit of Talcher-III – Pandiabili (POWERGRID) 400kV D/c line in bay no. 415. The other bay of the diameter viz 413 is planned to be used for termination of the 3<sup>rd</sup> 400/220kV ICT.