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.: CTUIL/OM/20/25th NCT

10th December 2024

As per distribution list

Sub: Implementation of ISTS Transmission Schemes approved by NCT in its 25th meeting held on 28th November 2024 under Regulated Tariff Mechanism (RTM).

NCT vide letter dated 10.12.2024 has awarded following ISTS Transmission scheme for its implementation under RTM mode by the respective implementing agency as indicated in the table below:

Sl. No.	Transmission Schemes	Implementing Agency
I. ISTS Transmission schemes approved by NCT		
1.	Transmission system strengthening to facilitate evacuation of power from Bhadla/Bikaner complex	POWERGRID

NCT also approved the modification in the earlier approved/notified transmission schemes as follows:

1. **Post facto approval for modification in the scope of work of Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part 1) (Bikaner Complex) – Part-E**

   NCT approved the modification in the scope of work of Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part 1) (Bikaner Complex) – Part-E, i.e, Shifting of existing 01 No. of 765 kV bus reactor bank along with its spare, other related equipment and gantry towers (as required) to new diameter (to be constructed just after Adani line bays) and thereafter the accommodation of 765/400 kV ICT (4th) in this vacant bay at Bikaner S/s.

2. **Consideration of GIS station in place of AIS station for the scheme "Transmission System for Offshore wind farm in Tamil Nadu {500 MW VGF}"**

   NCT approved to establish the Onshore Pooling Station as GIS in place of AIS near Avaraikulam under the scheme "Transmission System for Offshore wind farm in Tamil Nadu {500 MW VGF}. Revised scope of the scheme is as follows:

Sl. No.	*Revised Scope of the Transmission Scheme*	*Capacity / km*	*Remarks*
A. Transmission System onwards Onshore Pooling Station			
i.	Establishment of 2x500 MVA, 400/230 kV Onshore Pooling Station **(GIS)** near Avaraikulam, Tirunelveli District in Tamil	• 400/230 kV, 500 MVA, ICTs – 2 Nos. • 400 kV ICT bays – 2 Nos. **(GIS)** • 230 kV ICT bays – 2 Nos. **(GIS)**	Pooling station and bays change from AIS to **GIS**

Sl. No.	*Revised Scope of the Transmission Scheme*	*Capacity / km*	*Remarks*
A. Transmission System onwards Onshore Pooling Station			
	Nadu with provision of expansion upto 5 GW **Future Space Provisions:** • 400/230 kV, 500 MVA, ICTs – 10 Nos. • 400 kV ICT bays – 10 Nos. • 230 kV ICT bays – 10 Nos. • 400 kV line bays – 12 Nos. (with provision for SLR) • 230 kV line bays – 18 Nos. • 230 kV Bus Sectionalizer : 3 sets • 230 kV Bus Coupler (BC) Bay – 3 Nos.	• 400 kV line bays – 2 Nos. **(GIS)** (at Avaraikulam Onshore PS for termination of Avaraikulam Onshore PS – Tuticorin PS line) • 230 kV line bays – 2 Nos. **(GIS)** • 230 kV Bus Coupler (BC) Bay – 1 No. **(GIS)**	
2.	Avaraikulam Onshore PS – Tuticorin PS 400 kV D/c quad line	Line length ~100 km • 400 kV line bays - 2 (at Tuticorin PS)	No change
3.	± 300 MVAr STATCOM along with 2x125 MVAr MSR	• 400 kV bay – 1 No. **(GIS)** (additional 1 No. GIS bay for dia completion)	AIS to GIS bay
B. Transmission System for integration of Offshore Wind Farms with Onshore PS			
	Offshore Substation-1 {500 MW VGF}		
1.	Establishment of 2x315 MVA, 230/66kV Off-Shore Substation-1 **(GIS)** with 10 Nos. of 66kV line bays for RE integration	• 230/66kV, 315 MVA, ICTs – 2 Nos. • 230 kV ICT bays – 2 Nos. **(GIS)** • 66kV ICT bays – 2 Nos. **(GIS)** • 230 kV line bays – 2 Nos. **(GIS)** (at Off- Shore Substation-1 for termination of Offshore substation 1 (OSS-1) – Avaraikulam Onshore PS line) • 66kV line bays – 10 Nos. **(GIS)**	Pooling station and bays change from AIS to **GIS**
2.	Offshore substation 1 (OSS-1) – Avaraikulam Onshore PS 2 Nos. 230 kV (atleast 300 MVA capacity) Submarine cables (~35 - 40 km) with 2x50MVAr switchable line reactors at OSS-1 end	Cable length ~35 - 40 kM • 230 kV, 50MVAr switchable line reactors at OSS-1 end – 2 Nos.	No change

Further, NCT decided that proposed augmentation of transformation capacity at 765/400 kV Sipat STPS switchyard in Chhattisgarh by 1x1500 MVA, 765/400 kV ICT (3rd) needs to be implemented by NTPC.

Copy of NCT letter dated 10.12.2024 and CEA clarification mail dated 10.12.2024 is enclosed. The detailed scope of work along with implementation time frame for the above Transmission Schemes shall be as per the enclosed NCT letter, clarification mail from CEA dated 10.12.2024 and Minutes of the 25th meeting of NCT.

The implementing agency shall enter into a concession agreement with CTUIL for implementation of the aforementioned Transmission Schemes. However, pending finalization of Concession Agreement, it is requested to initiate necessary actions for implementation of the aforementioned Transmission Schemes.

This is for your kind information and necessary action, please.

Thanking you.

Yours faithfully,

(Partha Sarathi Das)
Sr. General Manager

Encl.: as stated.

Distribution List:

1. **The Chairman & Managing Director** Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon- 122 001 cmd@powergrid.in	2. **Shri Kura Ravi Kumar** Addl GM PE Electrical NTPC Limited NTPC Bhawan, Scope Complex, 7 Institutional Area, Lodhi Road, Delhi kuraravikumar@ntpc.co.in abhishekkhanna@ntpc.co.in

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग-II
Power System Planning & Appraisal Division-II

सेवा में / To

Chief Operating Officer, CTUIL
Floors No. 5-10, Tower 1, Plot No. 16,
IRCON International Tower, Institutional Area,
Sector 32, Gurugram, Haryana - 122001

विषय: एनसीटी द्वारा 28.11.2024 को आयोजित अपनी 25 वीं बैठक में अनुमोदित आईएसटीएस ट्रांसमिशन/संचार योजनाओं का कार्यान्वयन- के बारे में

Subject: Implementation of ISTS Transmission/Communication Schemes approved by NCT in its 25th meeting held on 28.11.2024- regarding

महोदय/Sir,

The undersigned is directed to inform that NCT has approved implementation/modification of the following ISTS Transmission Schemes in its 25th meeting held on 28.11.2024, in line with MoP office order dated 28.10.2021 and MoP Guidelines dated 09th March, 2022, as indicated below:

1. **Post facto approval for modification in the scope of work of Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part 1) (Bikaner Complex) – Part-E**

   NCT approved the modification in the scope of work of Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part 1) (Bikaner Complex) – Part-E, i.e, Shifting of existing 01 No. of 765 kV bus reactor bank along with its spare, other related equipment and gantry towers (as required) to new diameter (to be constructed just after Adani line bays) and thereafter the accommodation of 765/400 kV ICT (4th) in this vacant bay at Bikaner S/s.

2. **Bid process for selection of Bidder as Transmission Service Provider (TSP) to establish "Transmission system strengthening to facilitate evacuation of power from Bhadla/Bikaner complex"**

   NCT decided to de-notify the scheme from TBCB and approved implementation of the "Transmission system strengthening to facilitate evacuation of power from

Bhadla/Bikaner complex" to be undertaken under RTM route to be implemented by POWERGRID.

3. **Consideration of GIS station in place of AIS station for the scheme "Transmission System for Offshore wind farm in Tamil Nadu {500 MW VGF}"**
NCT approved to establish the Onshore Pooling Station as GIS in place of AIS near Avaraikulam under the scheme "Transmission System for Offshore wind farm in Tamil Nadu {500 MW VGF}. Revised scope of the scheme is as follows.

Sl. No.	***Revised Scope of the Transmission Scheme***	***Capacity / km***	***Remarks***
A. Transmission System onwards Onshore Pooling Station			
i.	Establishment of 2x500 MVA, 400/230 kV Onshore Pooling Station **(GIS)** near Avaraikulam, Tirunelveli District in Tamil Nadu with provision of expansion upto 5 GW **Future Space Provisions:** • 400/230 kV, 500 MVA, ICTs – 10 Nos. • 400 kV ICT bays – 10 Nos. • 230 kV ICT bays – 10 Nos. • 400 kV line bays – 12 Nos. (with provision for SLR) • 230 kV line bays – 18 Nos. • 230 kV Bus Sectionalizer : 3 sets • 230 kV Bus Coupler (BC) Bay – 3 Nos.	• 400/230 kV, 500 MVA, ICTs – 2 Nos. • 400 kV ICT bays – 2 Nos. **(GIS)** • 230 kV ICT bays – 2 Nos. **(GIS)** • 400 kV line bays – 2 Nos. **(GIS)** (at Avaraikulam Onshore PS for termination of Avaraikulam Onshore PS – Tuticorin PS line) • 230 kV line bays – 2 Nos. **(GIS)** • 230 kV Bus Coupler (BC) Bay – 1 No. **(GIS)**	Pooling station and bays change from AIS to **GIS**
ii.	Avaraikulam Onshore PS – Tuticorin PS 400 kV D/c quad line	Line length ~100 km • 400 kV line bays - 2 (at Tuticorin PS)	No change
iii.	± 300 MVAr STATCOM along with 2x125 MVAr MSR	• 400 kV bay – 1 No. **(GIS)** (additional 1 No. GIS bay for dia completion)	AIS to GIS bay
B. Transmission System for integration of Offshore Wind Farms with Onshore PS			
	Offshore Substation-1 {500 MW VGF}		
1.	Establishment of 2x315 MVA, 230/66kV Off-Shore Substation-1 **(GIS)** with 10 Nos. of 66kV line bays for RE integration	• 230/66kV, 315 MVA, ICTs – 2 Nos. • 230 kV ICT bays – 2 Nos. **(GIS)** • 66kV ICT bays – 2 Nos. **(GIS)** • 230 kV line bays – 2 Nos. **(GIS)** (at Off- Shore Substation-1 for termination of Offshore substation 1 (OSS-1) – Avaraikulam Onshore PS line) • 66kV line bays – 10 Nos. **(GIS)**	Pooling station and bays change from AIS to **GIS**

Sl. No.	*Revised Scope of the Transmission Scheme*	*Capacity / km*	*Remarks*
A. Transmission System onwards Onshore Pooling Station			
2.	Offshore substation 1 (OSS-1) – Avaraikulam Onshore PS 2 Nos. 230 kV (atleast 300 MVA capacity) Submarine cables (~35 - 40 km) with 2x50MVAr switchable line reactors at OSS-1 end	Cable length ~35 - 40 km • 230 kV, 50MVAr switchable line reactors at OSS-1 end – 2 Nos.	No change

4. Augmentation of transformation capacity at 765/400 kV Sipat STPS in Chhattisgarh by 1x1500 MVA, 765/400 kV ICT (3rd).

NCT decided that proposed augmentation of transformation capacity at 765/400 kV Sipat STPS switchyard in Chhattisgarh by 1x1500 MVA, 765/400 kV ICT (3rd) needs to be implemented by NTPC.

CTU is requested to intimate the implementing Agency. Detailed scope of the schemes are as per minutes of the meeting. Copy of the minutes are enclosed.

Encl.: As above.

भवदीय / Yours faithfully,

10-12-2024

(बी.एस.बैरवा/ B.S.Bairwa)

मुख्य अभियन्ता (इंचार्ज) एवं सदस्य सचिव,(एन.सी.टी.)/
Chief Engineer (I/C) & Member Secretary (NCT)

Copy to:

Joint Secretary (Trans), Ministry of Power, Shram Shakti Bhawan, New Delhi-110001

Outlook

Fwd: Re: Implementation of ISTS Transmission Schemes approved by NCT in its 25th meeting held on 28.11.2024- regarding

From pranay.cea@gov.in <pranay.cea@gov.in>
on behalf of
CEA-PSPA-II <cea-pspa2@gov.in>
Date Tue 2024-12-10 15:13
To Mahendranath Malla {मल्ला महेंद्र नाथ} <mahendranth.malla@powergrid.in>

Sir,
This is in continuation to trailing mail on the above subject. The scheme "Transmission system strengthening to facilitate evacuation of power from Bhadla/Bikaner complex" awarded to CTUIL for implementation under RTM mode is further mentioned below:

ISTS schemes costing between Rs. 100 Crs. To Rs. 500 Crs. approved by NCT under RTM route:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Estimated Cost (₹ Cr)
1.	Transmission system strengthening to facilitate evacuation of power from Bhadla/Bikaner complex	RTM through POWERGRID	18 months from the date of allocation	198.75

The above scheme is awarded to CTUIL for implementation under RTM mode. CTUIL is requested to take necessary action for entering into a concession agreement with the respective agency for implementation of the above schemes.

Detailed scope of the scheme are as per minutes of the meeting.

Regards
O/o Chief Engineer
PSPA-II, CEA

---- On Tue, 10 Dec 2024 11:32:01 +0530 **CEA-PSPA-II <cea-pspa2@gov.in>** wrote ---

Sir,

Kindly find attachments for further necessary action please.