सेंट्रल ट्रांसिमशन 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.: C/CTU/AI/00/8th CCTP

14th October 2022

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:

SI.	Name of scheme	Implementing Agency			
Nort	Northern Region				
1.	Augmentation of Transformation Capacity by 1x500MVA 400/220kV ICT (6th) at Fatehgarh-II PS to cater to the N-1 contingency requirement at Fatehgarh-II PS.	Power Grid Corporation of India Ltd.			
2.	Augmentation of Transformation capacity by 1x500MVA, 400/220kV ICT (3rd) to cater to the N-1 contingency requirement at Bikaner PS.	Power Grid Corporation of India Ltd.			
3.	Reactive power compensation on 400kV transmission lines in NR.	Power Grid Corporation of India Ltd.			
East	ern Region				
4.	Eastern Region Expansion Scheme-XXXI (ERES-XXXI).	Power Grid Corporation of India Ltd.			
Nort	h Eastern Region	<i></i>			
5.	North Eastern Region Expansion Scheme-XIX (NERES-XIX).	Power Grid Corporation of India Ltd.			

The detailed scope of works for the above transmission schemes, as approved by CTU is given at **Annexure-I**.

Implementing agencies shall enter into a concession agreement with CTU for the implementation of the above-mentioned 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

Copy to:

1. Shri Ishan Sharan
Chief Engineer & Member Secretary
(NCT)
Central Electricity Authority
Sewa Bhawan, R. K. Puram,
New Delhi-110 066.

2. Shri Goutam Ghosh
Director (Trans)
Ministry of Power,
Shram Shakti Bhawan,
Rafi Marg, New Delhi 110 001

Northern Region

1. Augmentation of Transformation Capacity by 1x500MVA 400/220kV ICT (6th) at Fatehgarh-II PS to cater to the N-1 contingency requirement at Fatehgarh-II PS:

SI. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Augmentation of Transformation Capacity by 1x500MVA 400/220kV ICT (6th) at Fatehgarh-II PS (under Bus section-1 with cable/GIS duct connection at 220kV side).	• 400 kV ICT bay - 1 no. • 220 kV ICT bay - 1 no. (with cable/GIS duct connection)	issue of OM by CTUIL (Refer Note-a).
		Total Estimated Cost:	INR 55.68 Crore

Note:

- a. Best efforts shall be carried out to implement the transmission scheme within 15 months from the issue of OM by CTUIL.
- 2. Augmentation of Transformation capacity (400/220kV) to cater to the N-1 contingency requirement at Bikaner PS:

SI. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1	Augmentation of Transformation capacity by 1x500MVA, 400/220kV ICT (3 rd) at Bikaner PS.	 500 MVA 400/220 kV ICT- 1no. 400 kV ICT bay – 1 no. 220 kV ICT bay – 1 no. 	15 months from the issue of OM by CTUIL.
		Total Estimated Cost:	INR 45.52 Crore

3. Reactive power compensation on 400kV transmission lines in NR:

SI. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Installation of 50 MVAR switchable line reactor at Mainpuri end and fixed 50 MVAR line reactor at Ballabgarh end on Mainpuri- Ballabgarh 400 kV D/c line along with 450 ohm NGR at each ends (with NGR bypass arrangement for operation of line reactor as a bus reactor).	MVAR switchable line reactor along with associated bays and 450 ohm NGR at Mainpuri end - 2 Nos MVAR fixed line reactor along with associated	

		equipments and 450-ohm NGR at Ballabgarh end -2 Nos.	
2.	Installation of 80 MVAR switchable line reactor at Allahabad end on Kanpur-Allahabad 400 kV S/c line along with 450 ohm NGR (with NGR bypass arrangement for operation of line reactor as a bus reactor).	80 MVAR switchable line reactor along with associated bay and 450 ohm NGR at Allahabad end -1 No.	issue of OM by
3.	Installation of 80 MVAR fixed line reactor at Bhiwadi end for uncompensated circuit of Agra-Bhiwadi 400 kV D/c line along with 450 Ohm NGR (with NGR bypass arrangement for operation of line reactor as a bus reactor).	80 MVAR fixed line reactor along with associated equipments and 450 Ohm NGR at Bhiwadi end - 1 No.	
	T	otal Estimated Cost:	INR 76.10 Crore

Eastern Region

4. Eastern Region Expansion Scheme-XXXI (ERES-XXXI):

SI. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Installation of new 420kV, 1x63MVAr line reactor at Maithon-A end of Maithon-A – Kahalgaon-B ckt-1 400kV line along with new 500 Ohm NGR (with NGR bypass arrangement for operation of line reactor as a bus reactor)	 63MVAr line reactor 1 no. 500 Ohm NGR along with line reactor including bypassing arrangement – 1 no. 	18 months from the issue of OM by CTUIL
	Note: The existing 50MVAr line reactor along with NGR in this line at Maithon-A end may be decommissioned prior to commissioning of the above new 63MVAr line reactor and NGR.		
2.	Installation of new 420kV, 1x125MVAr bus reactor along with associated bay at Jamshedpur (POWERGRID) S/s.	bus reactor – 1 no.	
		Total Estimated Cost:	INR 35.39 Crore

5. North Eastern Region Expansion Scheme-XIX (NERES-XIX):

SI. No.	Scope of the Transmission Scheme	Capacity/km	Implementation timeframe
1.	Reconductoring of Loktak (NHPC) – Imphal (POWERGRID) 132kV S/c line with HTLS conductor with Ampacity of single HTLS as 800A (at nominal voltage) along with strengthening of associated structure in NHPC switchyard, if necessary.		18 months from the issue of OM by CTUIL
2.	Replacement of existing CT of 600-400-200/1A at Loktak HEP end in Loktak – Imphal 132kV S/c line with rating commensurate with ampacity (800A) of HTLS conductor.	-	
	Total E	INR 15.60 Crore	