



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
 Saudamini, Plot No. 2,
 Sector-29, Gurgaon-122001

विषय/Subject: Implementation of ISTS Transmission/Communication Schemes approved by NCT in its 20th meeting held on 25.06.2024- regarding

महोदय/Sir,

The undersigned is directed to inform that NCT has approved implementation of the following ISTS Transmission and Communication Schemes in its 20th meeting held on 25.06.2024, in line with MoP office order dated 28.10.2021 and MoP Guidelines dated 09th March, 2022, to be implemented through Regulated Tariff Mechanism (RTM) route by agency as indicated below:

I. ISTS schemes costing between Rs. 100 Crs. To Rs. 500 Crs. Approved by NCT:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Estimated Cost (Rs. Crs)
1.	Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW) : Part B	RTM	24 Months or matching with Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW) : Part-A scheme whichever is later	195.67

The broad scope of the above schemes is as given below:

Sl.	Name of Transmission	Broad Scope
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No.	Scheme	
1.	Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW) : Part B	<p>i. Reconductoring of 400 kV Kishenpur-Kishtwar section (up to LILO point) with Twin HTLS (minimum 2100 MVA capacity) (formed after LILO of Kishenpur-Dulhasti line at Kishtwar S/s) along with bay upgradation works (2000 A to 3150 A) at Kishenpur end for above line.</p> <p>ii. Bypassing both ckts of 400 kV Kishenpur – Samba D/c line (Twin) & 400 kV Samba – Jalandhar D/c line (Twin) at Samba and connecting them together to form 400 kV Kishenpur– Jalandhar D/c direct line (Twin)</p> <p>(4 Nos. of vacated 400 kV line bays at Samba S/s will be utilized for 400 kV Kishenpur-Samba D/c line (Quad) & 400 kV Samba- Jalandhar D/c line(Quad),</p> <p>iii. Bays upgradation works (2000A to 3150A) at Samba end (4 Nos. bays vacated after bypassing of Kishenpur – Samba D/c line (Twin) & 400 kV Samba – Jalandhar D/c line (Twin))</p> <p>iv. Redundant Communication System for Dulhasti (NHPC) & Kishtwar (Sterlite) stations by installing OPGW on 400 kV Kishenpur-Kishtwar S/c line alongwith reconductoring work and FOTE at Dulhasti & Kishenpur.</p>

II. Communication schemes approved by NCT:

Sl. No.	Name of Transmission Scheme	Implementa- tion Mode	Tentative Implementat ion timeframe	Implementing Agency	Estimated Cost (Rs. Crs)
1.	A: Supply and installation of 24 Fibre OPGW on PKTCL lines for providing redundant communication for Parbati Pooling (Banala) (PG) S/s, Parbati-II (NHPC) & Parbati-III (NHPC) stations.	RTM	18 months from the date of allocation	PKTCL	5.31
	B: Supply and installation of 24 Fibre OPGW & FOTE to	RTM	18 months from the date of allocation	POWERGRI D	1.24

	providing redundant communication for Parbati Pooling (Banala) (PG) S/s, Parbati-II (NHPC) & Parbati-III (NHPC) stations.		(with matching schedule with Scheme A)		
2.	Redundant Communication for Chamera-III (NHPC) & Budhil (GreenCo) using 3 pairs of fibers sharing from HPPTCL network	RTM	18 months from the date of allocation	POWERGRID	0.3
3.	Additional FOTE requirements at AGC locations in Western Region	RTM	12 months from the date of allocation	POWERGRID	3.90
4.	Redundant OPGW communication path for Solapur STPP under AGC	RTM	18 months from the date of allocation	POWERGRID	1.15
5.	Redundant OPGW communication path for 500 MW plant of NSPCL, Chhattisgarh.	RTM	18 months from the date of allocation	POWERGRID	0.55

The above schemes are 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.

III. Modification in the earlier approved/notified transmission schemes:

1. Modification in design / layout of Kurnool-III PS due to receipt of large quantum of Connectivity applications at 400 kV level

NCT approved following modifications in the scope of design / layout of Kurnool-III PS:

Sl. No.	Bay Type	Present scope	Revised Present scope	Future Scope	Revised Future scope
765 kV Switchyard: No change					
400 kV switchyard					
1	Line with Reactor	0	0	10	22
2	Tie	9	10	11	12
3	400/220 kV Transformer Bay	9	9 (2 shifted to new section)	11	5
4	765/400 kV Transformer Bay	3	3	4	4
5	Bus Sectionaliser	0	0	1 set	2 set
6	Bus Reactor	1	1	-	Any Line with reactor bay may be used as Bus reactor bay
220 kV switchyard					
1	Line	15	15 (5 Nos. Shifted to new section)	11	5
2	400/220 kV Transformer Bay	9	9 (2 shifted to new section)	11	5
3	Bus Coupler	3	3	3	1
4	Transfer Bus coupler	3	3	3	1
5	Bus section	2 set	2 set	3 set	0

Additional works due to rearrangement / revised scope:

Sl. No.	Items
1	Land development for additional area for 400 & 220 kV Switchyard
2	400 kV Bus works for 8 Nos. additional diameters
3	Earth mat for additional area for 400 & 220 kV Switchyard
4	Other Auxiliary items i.e. additional requirement of Power & Control Cables, illumination, VMS etc.
5	Associated civil works including dismantling of foundations already casted

2. Augmentation with 400/220 kV, 1x500 MVA Transformer (10th) at Fatehgarh-2 PS

NCT approved modification in the transmission scheme for “Augmentation with 400/220 kV, 1x500 MVA Transformer (10th) at Fatehgarh-2 PS” as mentioned below so that same can be taken up for implementation:

Earlier (as per MOP OM dated 01.12.21)	Amendment
Augmentation with 400/220 kV, 1x500 MVA Transformer (10th) at Fatehgarh-2 PS <ul style="list-style-type: none"> • 400/220 kV 500 MVA ICT:1 no • 400 kV ICT bays – 1 Nos. • 220 kV ICT bays - 1 Nos. 	Augmentation with 400/220 kV, 1x500 MVA Transformer (11th) at Fatehgarh-II PS (5 th ICT in Fatehgarh-II section-II) <ul style="list-style-type: none"> • 400/220 kV 500 MVA ICT:1 no • 400 kV ICT bays – 1 no. • 220 kV ICT bays - 1 no.

Implementation Timeframe- 15 months from MOP OM or evacuation requirement beyond 4490 MW at 220 kV level of Fatehgarh-2, whichever is later.	Implementation Timeframe- 18 months [for N-1 compliance in Fatehgarh-II PS (Section-II)]
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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,

(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