No. 15/3/2018-Trans-Pt(1)
Government of India
Ministry of Power
Shram Shakti Bhawan, Rafi Marg, New Delhi – 110001

Dated, 30th January, 2019

OFFICE MEMORANDUM

Subject: New Transmission schemes to be taken up under compressed time schedule through regulated tariff mechanism route.

The undersigned is directed to inform that the Empowered Committee on Transmission (ECT), in its 3rd meeting, held on 21.12.2018 has approved the implementation of following transmission schemes along with the broad scope by Power Grid Corporation of India Limited (POWERGRID), under compressed time schedule through regulated tariff mechanism (RTM):

Sl. No.	Name of the Scheme
1	**WRSS- 21 Part-A (RTM)- Conversion of existing 2x63MVAR line reactors at Bhachau end of Bhachau – EPGL 400kV D/c line to switchable line reactors** **Scope:** Conversion of existing 2x63MVAR line reactors at Bhachau end of Bhachau – EPGL 400kV D/c line to switchable line reactors: 400kV Reactor bay -2 Implementation time frame is December 2020
2	**Additional 1x500MVA 400/220kV (9th) ICT, for injection from any additional RE project (other than 4000MW injection under SECI bids upto Tranche IV) at Bhuj PS:** 1. Additional 1x500MVA 400/220kV (9th) ICT, for injection from any additional RE project (other than 4000MW injection under SECI bids upto Tranche IV) in existing Bhuj PS with associated 400 kV GIS bay and 220kV AIS bay. — 1x500MVA, 400/220kV; 400kV ICT bay-1; 220kV ICT bay-1 2. 3 nos. of 220kV line bays(hybrid/MTS) for termination of dedicated lines of RE developers with Stage-II connectivity — 220kV bays -3 **Note:** Implementation to be taken up in case there is injection requirement beyond 4000 MW at Bhuj PS at 220 kV level.

	Implementation time frame is November 2019- March 2020
3	**400kV line bay at Solapur PS for St-II connectivity to M/s Toramba** **Scope:** **Scope of the Transmission Scheme** / **Capacity /km** 1 nos. of 400kV bay at Solapur (PG) for St-II connectivity to M/s Toramba / 400kV line bay -1 Implementation time frame is December 2019
4	**Transmission system associated with LTA applications from Rajasthan SEZ Part-A(RTM)** **Scope:**

Sl. No.	Scope of the Transmission Scheme	Capacity /ckm
1	Establishment of 3x1500MVA (765/400kV), Fatehgarh-2 Pooling station at suitable location near Fatehgarh 400kV S/s in Jaisalmer Distt. with 765kV (2x240MVAR) and 400kV (1x125 MVAR) bus reactor Future provisions: Space for : 765/400kV ICT along with bays: 3 nos 400/220kV ICTs along with bays: 10 nos. 765kV line bays: 4 nos 400kV line bays: 6 nos. 220kV line bays: 18 nos 400kV bus reactor along with bays: 1no 765kV bus reactor along with bays: 1no	3x1500MVA, 765/400kV, 765kV ICT bay-3 400kV ICT bay-3 400kV line bay-2 765kV line bay-2 125 MVAr 765 kV reactor-1 240 MVAr 400 kV reactor-2 765kV reactor bay-2 400kV reactor bay-1
2	LILO of Fatehgarh (TBCB) – Bhadla (PG) D/c (765kV line op. at 400kV) line at Fatehgarh-2 so as to establish Fatehgarh (TBCB) – Fatehgarh -2 400kV D/c line (765kV line op. at 400kV) and Fatehgarh -2- Bhadla 400kV	10km

	D/c line (765kV line op. at 400kV) * Charging of Fatehgarh-2 –Bhadla section at 765kV level	
3	2 no of 765kV bays at Bhadla for charging of Fatehgarh-2 –Bhadla section at 765kV level	765kV line bay-2
4	Establishment of 765/400kV, 2x1500MVA (765/400kV) Bhadla-2 Pooling station at suitable location near Phalodi/ Bhadla in Jodhpur with 765kV (2x240MVAR) and 400kV (1x125 MVAR) bus reactor Future provisions: Space for 765/400kV ICT along with bays: 2 Nos 400/220kV ICTs along with bays: 9 nos. 765kV line bays: 6nos 400kV line bays: 6nos. 220kV line bays: 16 nos 400kV bus reactor along with bays: 1no 765kV bus reactor along with bays: 1no	2x1500MVA, 765/400kV 765kV ICT bay-2 400kV ICT bay-2 400kV line bay-2 765kV line bay-4 125 MVAr bus reactor-1 240 MVAr bus reactor-2 765kV reactor bay-2 400kV reactor bay-1
5	Bhadla-2 – Bhadla (PG) 400kV D/c Line (Twin HTLS)*	30km
6	LILO of both ckts. 765kV Ajmer – Bikaner D/c line at Bhadla-2	2x135 km route length (approx)
7	1x240 MVAr Switchable line reactor at Bhadla-2 end for Bikaner-Bhadla-2 765kV line (after LILO)	240 MVAr reactor-2 765kV reactor bay-2
8	1x330 MVAr Switchable line reactor at Bhadla-2 end for each circuit of Ajmer-Bhadla-2 765kV line (after LILO)	330 MVAr reactor-2 765kV reactor bay-2

* with charging of Fatehgarh-II –Bhadla section at 765kV level, 2nos. of 400kV bays would be spared at Bhadla S/s, which could be utilized for Bhadla-II – Bhadla (PG) 400kV D/c line.

Implementation time frame is September 2020 i.e. in a compress time schedule of 21 months (18 months implementation + 3 months bidding)

5	**ICT Augmentation works at existing Moga (PG) ISTS S/S associated with LTA applications from SEZs in Rajasthan:** **Scope**: **Scope of the Transmission Scheme** / **Capacity /ckm** Augmentation with 765/400kV, 1x1500MVA transformer (3rd) at Moga S/s / 1x1500MVA, 765/400kV; 765kV ICT bay-1; 400kV ICT bay-1 **Note:** Implementation time frame is compressed schedule of practically feasible time period of 12 months.
6	**ICT Augmentation works at Bhadla(PG) associated with 1630 MW LTA granted at Bhadla:** **Scope:** **Scope of the Transmission Scheme** / **Capacity/Ckm** Additional 3x500 MVA, 400/220kV 5th, 6th & 7th ICT at Bhadla Pooling station. / 3x500 MVA, 400/220kV; 400 kV ICT bay-3; 220 kV ICT bay-3 **Note:** Implementation time frame is compressed schedule of practically feasible time period of 12 months.
7	**ICT Augmentation works at existing Bhiwani (PG) ISTS S/S associated with LTA applications from SEZs in Rajasthan:** **Scope**: **Scope of the Transmission Scheme** / **Capacity /ckm** Augmentation with 765/400kV, 1x1000MVA, transformer (3rd) at Bhiwani (PG) S/s / 1x1500MVA, 765/400kV,; 765kV ICT bay-1; 400kV ICT bay-1 Implementation time frame is September 2020

8 **125 MVAR bus reactor at Kala Amb substation:**

Scope:

Scope of the Transmission Scheme	Capacity /km
1x125 MVAR, 420 kV Bus Reactor at Kala Amb	1x125 MVAR, 420kV bus reactor 420kV reactor bay- 1 no.

9 **2 Nos. of 220kV bays at 3x315 MVA, 400/220kV Samba (Jatwal) (PG) S/s**

Scope:

Scope of the Transmission Scheme	Capacity/Ckm
2 nos. of 220kV line bays at Samba (Jatwal) (PG)	220 kV line bays- 2

Implementation time frame is November 2019 in matching time frame of Samba (Jatwal)(PG) – Samba (JKPDD) 220 kV D/c line

10 **High loading of Nellore – Nellore (PS) 400kV (Quad) D/c line:**

Scope:

Sl. No.	Scope of the Transmission Scheme
1	Bypassing of Nellore PS – Nellore PG 400kV D/c (Quad) line & Nellore PG – Thiruvalam 400kV D/c (quad) line at Nellore PG to form Nellore PS – Thiruvalam 400kV D/c (Quad) direct line
2	Conversion of 2x50 MVAR fixed line reactors at Nellore PG on Nellore PG – Thiruvalam 400kV D/c (Quad) line as bus reactor at Nellore PG 400kV sub-station

11 **Construction of 2 nos. 132 kV feeder bays at Malda 400 kV substation of POWERGRID:**

Scope:

Scope of the Transmission Scheme
Replacement of existing Single Main & Transfer (SMT) scheme with Double Main (DM) scheme at 132kV level at Malda (POWERGRID) substation in GIS along with additional 2 no. of 132kV GIS line bays for Manikchak/Paranpur – Malda (POWERGRID) 132kV D/c line

2. It is requested that necessary action may be taken accordingly.

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Copy forwarded to CMD, PGCIL, Gurugram, for information and necessary action.