

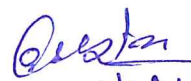
Dated: 1st December, 2021

OFFICE MEMORANDUM

Subject: New transmission schemes to be taken up under Regulated Tariff Mechanism (RTM).

The undersigned is directed to inform that Hon'ble Minister for Power has approved the implementation of following transmission schemes, which were recommended by 5th meeting of the National Committee on Transmission (NCT), under the Regulated Tariff Mechanism (RTM) mode by agencies as indicated in the table below:

SI. No.	Elements	Agency
1.	Transmission system strengthening beyond Kolhapur for export of power from Solar & Wind Energy Zones in Southern Region- Re-conductoring of Kolhapur (PG) – Kolhapur 400 kV D/c line	PGCIL
2.	Augmentation of 1x500 MVA, 400/220 kV ICT (3rd) at Bhatapara (PG)	PGCIL
3.	Transmission system for evacuation of power from REZ in Rajasthan (20GW) under Phase-III Part E1	PGCIL
4.	Transmission system for evacuation of power from REZ in Rajasthan (20GW) under Phase-III Part E2	PGCIL
5.	Transmission system for evacuation of power from REZ in Rajasthan (20GW) under Phase-III Part J	PGCIL
6.	System Strengthening scheme for Reconductoring of portion of Dulhasti-Kishtwar- Kishenpur 400 kV (Quad) S/c	PGCIL
7.	Grant of 400kV & 220kV bays to RE generators at Fatehgarh-III (erstwhile Ramgarh-II) PS under ISTS	M/s PRTL- Powergrid Ramgarh Transmission Limited)
8.	1x500 MVA, 400/220 kV ICT augmentation (3rd) at Sohawal (PG)) under system strengthening	PGCIL
9.	One no of 220kV bay at Chamera Pooling point for 2 nd Circuit stringing of 220 kV Karian – Chamera Pool line under implementation by HPPTCL	PGCIL
10.	220 kV bays at 400 kV substation PGCIL Khatkar (Jind) & Naggal (Panchkula) substation	PGCIL



11/21/2021

2. Detailed scope of works for the above schemes, as recommended by the NCT is at **Annexure**.

3. These schemes are awarded to CTUIL for their implementation under RTM mode. The CTUIL is requested to take necessary action for entering into a concession agreement with agencies as mentioned in table at para 1 above, for implementation of these schemes.

4. This issues with the approval of Competent Authority.

Encl: as stated.



(Bihari Lal)

Under Secretary (Trans)

Tele: 011-23325242

To:

COO, CTUIL,
Gurugram.

Copy to:

1. Chairperson, Central Electricity Authority, New Delhi..
 2. CMD, PGCIL, Gurugram.
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Detailed scope of works for new ISTS schemes in Western Region for implementation through RTM route

1. Re-conductoring of Kolhapur (PG) – Kolhapur 400 kV D/c line

SI. No.	Scope of the Transmission Scheme	Capacity /km
1.	Re-conductoring of Kolhapur (PG) – Kolhapur 400 kV D/c line with conductor of minimum capacity of 2100 MVA/Ckt at nominal voltage along with bay up-gradation work at Kolhapur (MSETCL).	Re-conductoring length – 60 km approx. 400 kV bay upgradation- 2 nos.

Implementation timeframe: 15 months from date of issue of MoP OM.

2. Augmentation of 1x500 MVA, 400/220 kV ICT (3rd) at Bhatapara (PG)

SI. No.	Scope of the Transmission Scheme	Capacity /km
1.	Augmentation of 1x500 MVA, 400/220 kV ICT (3 rd) at Bhatapara (PG)	400/220 kV, 500 MVA ICT –1 nos. 400 kV ICT bays – 1 nos. 220 kV ICT bays – 1 nos.
Approximate cost (Rs. Cr)		30

Note: To be implemented in the timeframe of implementation of LILO of one circuit of Bhatapara (PG) – Suhela 220 kV T/c line at Bhatapara (CSPTCL) under intra-state.

Implementation timeframe: 15 months from date of issue of MoP OM or implementation of LILO of one circuit of Bhatapara (PG) – Suhela 220 kV T/c line at Bhatapara (CSPTCL) under intra-state, whichever is later.

@s/ks
11/2/2021

Detailed scope of works for new ISTS schemes in Northern Region for implementation through RTM route

3. Transmission system for evacuation of power from REZ in Rajasthan (20GW) under Phase-III Part E1”

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1.	Establishment of 3x1500 MVA 765/400kV & 3x500 MVA ,400/220 kV pooling station at Fatehgarh-3 (new section*) (In addition to 4x500 MVA ICT proposed under Rajasthan SEZ Ph-II- of Section-1) along with 2x330 MVAR, 765kV & 2x125 MVAR, 420kV Bus Reactors	765/400kV 1500 MVA ICT: 3 nos (10x500 MVA, including one spare unit) 330 MVAR, 765 kV bus reactor- 2 (7x110 MVAR, including one spare unit) 765kV ICT bays - 3 nos. 400/220 kV, 500 MVA ICT - 3nos. 400 kV ICT bays –6 nos. 220 kV ICT bays - 3 nos. 765 kV line bays - 2nos. 765kV reactor bay- 2 nos. 125 MVAR, 420kV bus reactor - 2 nos. 420 kV reactor bay - 2 nos.

Note: Provision of suitable sectionalization shall be kept at Fatehgarh-3 at 400kV & 220kV level to limit short circuit level

Implementation Timeframe: 18 months from MoP OM or matching timeframe of Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase III - Part A1, whichever is later.

4. Transmission system for evacuation of power from REZ in Rajasthan (20GW) under Phase-III Part E2

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1.	Augmentation of 3x1500 MVA 765/400kV & 2x500 MVA 400/220 kV pooling station at Fatehgarh-3 (new section)	765/400kV 1500 MVA ICT:3 nos. 400/220 kV 500 MVA ICT:2 nos 765kV ICT bay – 3 nos 400kV ICT bay -5 nos. 220 kV ICT bay- 2nos

Note: Implementation to be taken up at later stage based on evacuation requirement beyond 3000 MW cumulative at Fatehgarh-3 (new section) & Fatehgarh-4 PS.

Q. S. S. S.
1/14/2021

Implementation Timeframe: 15 months from MoP OM or evacuation requirement beyond 3000 MW cumulative at Fatehgarh-3 (new section) & Fatehgarh-4 PS, whichever is later.

5. Transmission system for evacuation of power from REZ in Rajasthan (20GW) under Phase-III Part J”

Sl.No.	Scope of the Transmission Scheme	Capacity /km	Implementation Timeframe- 15 months from MoP OM or conditions as given below, whichever is later.
1.	Augmentation with 400/220kV, 1x500MVA Transformer (10 th) at Fatehgarh-2 PS	400/220kV 500 MVA ICT:1 no 400 kV ICT bays – 1 nos. 220 kV ICT bays – 1 nos.	<ul style="list-style-type: none"> Evacuation requirement beyond 4490 MW at 220 kV level of Fatehgarh-2 Presently 3660 MW LTA granted at 220 kV level of Fatehgarh-2
2.	Augmentation with 765/400kV, 1x1500MVA Transformer (5 th) at Bhadla-2 PS	765/400kV 1500 MVA ICT: 1 no. 765kV ICT bays – 1no. 400 kV ICT bays – 1 no.	<ul style="list-style-type: none"> Evacuation requirement beyond 4000 MW at Bhadla-2 PS At present 5945MW Stage-II connectivity applications and 2645 MW LTA applications granted at Bhadla-2 PS.
3.	Augmentation with 765/400kV, 1x1500MVA Transformer (3 rd) at Bikaner (PG)	765/400kV 1500 MVA ICT: 1 no 765kV ICT bays – 1no. 400 kV ICT bays – 1 no.	<ul style="list-style-type: none"> Evacuation requirement beyond 3900 MW LTA at Bikaner(PG) /Bikaner-2 PS At present 3935 MW Stage-II connectivity applications and 2975 MW LTA applications granted at Bikaner/Bikaner-2 PS.
4.	Augmentation of 1x1500 MVA ICT (3 rd), 765/400kV ICT at Jhatikara Substation (Bamnoli/Dwarka section)	765/400kV 1500 MVA ICTs : 1 no 765kV ICT bays – 1no. 400 kV ICT bays – 1 no.	In matching timeframe of Transmission system for evacuation of power from REZ in Rajasthan (20GW) under Phase-III Part D

Q. S. S.
11/21/2021

6. **System Strengthening scheme for reconductoring of portion of Dulhasti-Kishtwar-Kishenpur 400 kV (Quad) S/c”**

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1.	Reconductoring of Dulhasti-Ratle LILO tap Point of Dulhasti - Kishenpur 400 kV line (approx. 13 kms) implemented through twin moose conductor, with Quad moose conductor in matching time frame of Pakaldul HEP generation.	Length – 13 km

Implementation Timeframe: In matching time frame of Pakaldul HEP generation.

7. **Grant of 400 kV & 220 kV bays to RE generators at Fatehgarh-III (erstwhile Ramgarh-II) PS under ISTS**

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1.	6 nos. of 220 kV bays and 3 nos. of 400 kV bays along with bus extension of 220 kV & 400 kV bus as well as bus sectionaliser arrangement between both the levels i.e 400 kV new section and 220 kV new section with under implementation section at Fatehgarh-III PS	400 kV line bays - 3 nos. 220kV line bays - 6 nos. 400kV bus sectionaliser: 1 no. 220kV bus sectionalizer: 1 no.

Implementation Timeframe: 15 months from MoP OM.

8. **1x500 MVA, 400/220 kV ICT augmentation (3rd) at Sohawal (PG) under system strengthening”**

Sl.No.	Scope of the Transmission Scheme	Capacity /km
1	Augmentation with 400/220kV, 1x500 MVA Transformer (3 rd)at Sohawal (PG)	400/220kV 500 MVA ICT: 1 no 400 kV ICT bays – 1 nos. 220 kV ICT bays – 1 nos.

Implementation Timeframe: 15 months from MoP OM.

Qs/Ans
1/12/2021

9. One no of 220 kV bay at Chamera Pooling point for 2nd Circuit stringing of 220 kV Karian – Chamera Pool line”

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1	One no of 220kV bay at Chamera Pooling point (PG) for 2 nd Circuit stringing of 220 kV Karian – Chamera Pool line	220 kV line bay -1 no

Implementation Timeframe: 12 months from MoP OM

10. 220 kV bays at 400 kV substation PGCIL Khatkar (Jind) & Naggal (Panchkula) substation”

Sl. No.	Scope of the Transmission Scheme	Capacity /km	Implementation timeframe
1	220 kV bays at 400 kV substation PGCIL Khatkar (Jind) for LILO of both circuits of 220 kV Jind HVPNL to PTPS D/C line at 400 kV substation PGCIL Khatkar (Jind)	220 kV line bays -2 nos	July' 2023
2	220 kV bays at 400 kV PGCIL Naggal (Panchkula) substation for 220 kV D/C line from 400 kV PGCIL Naggal (Panchkula) to proposed 220 kV substation Sadhaura	220 kV line bays -2 nos	September' 2023

Q. S. S.
11/01/2021.

