

No. 15/3/2018-Trans-Part(1)  
Government of India  
Ministry of Power  
Shram Shakti Bhawan, Rafi Marg, New Delhi-110001  
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Dated, 16<sup>th</sup> July, 2021

**OFFICE MEMORANDUM**

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

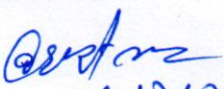
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The undersigned is directed to inform that Hon'ble Minister for Power has approved the implementation of following transmission schemes, which were recommended by 4<sup>th</sup> meeting of the National Committee on Transmission (NCT), under the Regulated Tariff Mechanism (RTM) mode by agencies as indicated in the table below:

Sl. No.	Elements	Agency
1	Implementation of 400kV bays for RE generators at Bhadla-II PS, Fatehgarh-II.	PGCIL
2	Implementation of 400kV bay for RE generators at Fatehgarh-III (erstwhile Ramgarh-II) PS	Powergrid Ramgarh Transmission Ltd. (Subsidiary of PGCIL)
3	Implementation of 220 kV bay at Shahjahanpur 400/220 substation (PGCIL)	PGCIL
4	Implementation of 1x80 MVAR, 765kV Spare Reactor at Bhadla-II S/s	PGCIL
5	Implementation of the 1x500 MVA, 400/220kV ICT (8 <sup>th</sup> ) at Bhadla Pooling Station	PGCIL
6	ICT Augmentation at 2x315 MVA, 400/220 kV Shujalpur (PG) substation	PGCIL
7	Regional System Strengthening scheme to mitigate the overloading of 400 kV NP Kunta-Kolar S/C line	PGCIL
8	Augmentation of transformation capacity at existing Hiriyur and Kochi S/stns	PGCIL
9	Restoring of one circuit of Kudankulam – Tuticorin PS 400 kV (quad) D/c line at Tirunelveli to control loadings/un-balancing on Kudankulam – Tirunelveli 400 kV (quad) lines.	PGCIL
10	Implementation of 1 no. of 230 kV bay at Tuticorin-II GIS PS	PGCIL

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

  
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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*  
16/7/2024

(Bihari Lal)

Bihari Lal (Trans)

Tele: 011-23325242

To

COO, CTUIL,  
Gurugram.

Copy to:

1. Member(PS), CEA, New Delhi.
2. CMD, PGCIL, Gurugram.

**Detailed scope of works for new ISTS schemes to be developed in RTM Mode**

- 1) **Implementation of 400 kV bays for RE generators at Bhadla-II PS, Fatehgarh-II PS:**

Sl. No.	Scope of the Transmission Scheme	Capacity / line length km
1.	3 no. of 400 kV bays at Bhadla-II	400 kV line bays – 3
2.	2 no. of 400 kV bay at Fatehgarh-II	400 kV line bays – 2

Implementation Timeframe: 15 months from MoP OM allocating the scheme or RE generator commissioning schedule whichever is later.

- 2) **Implementation of 400 kV bays for RE generators at Fatehgarh-III (erstwhile Ramgarh-II) PS:**

Sl. No.	Scope of the Transmission Scheme	Capacity / line length km
1.	1 no. of 400 kV bay at Fatehgarh-III	400 kV line bays – 1

Implementation Timeframe: 15 months from MoP OM allocating the scheme or RE generator commissioning schedule whichever is later.

- 3) **Implementation of 220 kV bay at Shahjahanpur (PG) 400/220 substation**

Sl. No.	Scope of the Transmission Scheme	Capacity / line length km
1.	Line bay at Shahjahanpur (PG) 400/220 kV substation	220 kV line bay(AIS) - 1 no.

Implementation Timeframe: 12 months from MoP OM allocating the scheme or matching timeframe of LILO of Sitapur – Shahjahanpur 220 kV S/c line at Shahjahanpur by UPPTCL, whichever is later.

- 4) **Implementation of 1x80 MVAR, 765 kV Spare Reactor at Bhadla-II S/s**

Sl. No.	Scope of the Transmission Scheme	Capacity / line length km
1.	1x80 MVAR, 765 kV Spare Reactor at Bhadla-II S/s for 2x240 MVAR switchable line reactors associated with Fatehgarh-II – Bhadla-II 765 kV 2 <sup>nd</sup> D/C line.	1x80 MVAR, 765kV reactor-1

Implementation time: Matching time frame of Fatehgarh-II – Bhadla-II 765 kV 2<sup>nd</sup> D/C line.

- 5) **Implementation of the 1x500 MVA, 400/220 kV ICT (8th) at Bhadla Pooling Station**

Sl. No.	Scope of the Transmission Scheme	Capacity / line length km
1.	1x500 MVA, 400/220kV ICT (8th) at Bhadla Pooling Station	500 MVA, 400/220kV ICT – 1 no. 400 kV ICT bay- 1 no. 220 kV ICT bay- 1 no.

Implementation time: 15 months from date of MoP OM allocating the scheme

- 6) **ICT Augmentation at 2x315 MVA, 400/220 kV Shujalpur (PG) substation**

Sl. No.	Scope of the Transmission Scheme	Capacity / line length km
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*Asst. Engr*  
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1.	1x500MVA, 400/220 kV ICT augmentation at Shujalpur alongwith associated bays	(PG)1	400/220 kV, 500 MVA ICT-1 400 kV ICT bays- 1 220 kV ICT bays- 1
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Implementation Timeframe: In matching time frame of Reconductoring of Shujalpur (PG) Shujalpur (MP) 220kV D/c line by MPPTCL.

**7) Regional System Strengthening scheme to mitigate the overloading of 400 kV NP Kunta-Kolar S/C line**

Sl. No.	Scope of the Transmission Scheme	Capacity / line length km
1.	Temporary Bypassing of Cudappah – NP Kunta 400 kV S/c line and NP Kunta – Kolar 400 kV S/c line with suitable arrangement at NP Kunta sub-station to form Cudappah – Kolar 400 kV S/c line	
2.	Re-conductoring of the NP Kunta – Kolar 400 kV S/c line (twin Moose) section with high capacity conductors (like twin HTLS equivalent or Quad Moose).	131
3.	Upgradation of 400 kV bays equipments at NP Kunta and Kolar for NP Kunta – Kolar 400 kV line section: <b>Kolar Substation:</b> Bay equipments (Circuit Breaker, Isolators , CT, Wave traps, Erection hardware etc.) of complete 400kV diameter is to be upgraded to 3150A rating. <b>NP Kunta substation:</b> 7 nos. 400KV, 2000A DBR existing Isolators and Existing erection hardware needs to be upgraded to suit proposed high capacity conductors (current rating of 3150A).	
4.	Restoration of LILO arrangement to form Cuddappah – NP Kunta 400 kV S/c line and NP Kunta – Kolar 400 kV S/c line upon completion of re-conductoring works of NP Kunta – Kolar line.	

Implementation Timeframe: 15 months from date of MoP OM allocating the scheme.

**8) Augmentation of transformation capacity at existing Hiriyyur and Kochi S/stns**

Sl. No.	Scope of the Transmission Scheme	Capacity / line length km
1.	1x500 MVA, 400/220 kV ICT augmentation at Hiriyyur (PGCIL) alongwith associated bays	400/220 kV, 500 MVA ICT-1 400 kV ICT bays- 1 220 kV ICT bays- 1
2.	1x500 MVA, 400/220 kV ICT augmentation at Kochi (PGCIL) alongwith associated bays	400/220 kV, 500 MVA ICT-1 400 kV ICT bays- 1 220 kV ICT bays- 1

Implementation Timeframe: 15 months from date of MoP OM allocating the scheme

**9) Restoring of one circuit of Kudankulam – Tuticorin PS 400 kV (quad) D/c line at Tirunelveli to control loadings/un-balancing on Kudankulam – Tirunelveli 400 kV (quad) lines**

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Sl. No.	Scope of the Transmission Scheme	Capacity / line length km
1.	Restoring of one circuit of Kudankulam – Tuticorin PS 400 kV (quad) D/c line at Tirunelveli to control loadings/un-balancing on Kudankulam – Tirunelveli 400 kV (quad) lines	

Implementation Timeframe: Already Implemented (as intimated by PGCIL/CTUIL vide email dated 24.05.2021)

**10) Implementation of 1 no. of 230 kV bay at Tuticorin-II GIS PS**

Sl. No.	Scope of the Transmission Scheme	Capacity / line length km
1.	1 no. of 230 kV bay at Tuticorin-II GIS PS	230 kV line bay- 1

Implementation Timeframe: In matching timeframe of 230 MW solar Project of NTPC at Ettayapuram, Tuticorin, Tamil Nadu or 12 months from the date of MoP OM allocating the scheme, whichever is later.

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*[Handwritten Signature]*  
16/7/21