Office Memorandum

Sub: Agenda for 3rd Meeting of the Empowered Committee on Transmission (ECT) - reg.

The undersigned is directed to refer to this Ministry’s Meeting Notice of even number dated 12.12.2018 regarding 3rd Meeting of the Empowered Committee on Transmission (ECT) and to forward herewith the agenda for the subject meeting for your information and necessary action.

Encl: As above.

(Bihari Lal)
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To,

1. Chairperson, CEA, New Delhi.
2. Member (PS), CEA, New Delhi.
3. Joint Secretary (Trans), MoP, New Delhi.
4. CMD, POWERGRID, Gurugram
5. COO, CTU-Plg, POWERGRID

Copy to: PPSs to Secretary (Power) / JS (Trans) / Director (Trans), M/o Power.
Agenda for the 3rd meeting of Empowered Committee on Transmission (ECT)

Venue: Shram Shakti Bhawan, New Delhi
Date: 21.12.2018 time 12.00 PM

A: Confirmation of the minutes of the 2nd meeting of National Committee on Transmission:

In regard to ATS of Arun-III, SJVN has requested to consider its implementation and not to defer for further discussion with stakeholders as decided in 2nd ECT meeting. ECT may like to deliberate to confirm the minutes of the 2nd meeting of the Empowered Committee on Transmission.

B: DELIBERATIONS ON THE NEW TRANSMISSION SCHEMES

B1. Additional ISTS Transmission Schemes in Western Region:

i. 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. NCT recommended the above scheme for implementation through RTM.

ii. WRSS-21 Part-A- "Transmission System strengthening for relieving over loadings observed in Gujarat Intra-state system due to RE injections in Bhuj PS". NCT recommended the above scheme for implementation through TBCB by December 2020. BPCs may be requested to complete the bidding process in 140 days.

iii. WRSS-21 Part-B- Transmission System strengthening for relieving over loadings observed in Gujarat Intra-state system due to RE injections in Bhuj PS: NCT recommended the above scheme for implementation through TBCB by December 2020. BPCs were requested to complete the bidding process in 140 days.

iv. Transmission system associated with RE generations at Bhuj-II, Dwarka & Lakadia: NCT recommended the above scheme for implementation through TBCB by June 2021 or as per the progress of connectivity/LTA applications of RE projects from WEZ in Gujarat.

v. Transmission System for providing connectivity to RE projects at Bhuj-II (2000MW) in Gujarat: NCT recommended the scheme for implementation through TBCB with commissioning schedule of December 2020 or as per progress of connectivity/LTA applications at Bhuj-II.
vi. Jam Khambhaliya Pooling Station for providing connectivity to RE projects (1500 MW) in Dwarka (Gujarat): NCT recommended for implementation through TBCB with commissioning schedule of June 2020.

vii. Interconnection of Jam Khambhaliya Pooling Station for providing connectivity to RE projects (1500 MW) in Dwarka (Gujarat): NCT recommended the scheme for implementation through RTM with commissioning schedule of June 2020.

viii. 400kV line bay at Solapur PS for St-II connectivity to M/s Toramba-NCT recommended the implementation of the scheme through RTM by December 2019.

ix. Installation of 400/220 kV ICT along with associated bays at M/s CGPL Switchyard NCT recommended the above scheme for implementation through TBCB mode

B2: New ISTS Transmission Schemes in Northern Region:

i. Transmission system associated with LTA applications from Rajasthan SEZ Part-A: NCT recommended the above scheme for implementation through RTM by September 2020 in a compress time schedule of 21 months:(18 months’ implementation + 3 months bidding).

ii. Transmission system associated with LTA applications from Rajasthan SEZ Part-B: NCT recommended the above scheme for implementation through TBCB route. Time frame to be decided based on connectivity/LTA applications at Fatehgarh-II.

iii. Transmission system associated with LTA applications from Rajasthan SEZ Part-C: NCT recommended the above schemes for implementation in through TBCB by December 2020 in 24 months(19 months’ implementation + 5 months bidding time).

iv. Transmission system associated with LTA applications from Rajasthan SEZ Part-D: NCT recommended the above schemes for implementation in through TBCB by December 2020 in 24 months(19 months’ implementation + 5 months bidding time).

v. ICT Augmentation works at existing Moga (PG) ISTS S/S associated with LTA applications from SEZs in Rajasthan: NCT recommended the above scheme for implementation through RTM in compressed time schedule of 9 months by September 2019.
vi. ICT Augmentation works at Bhadla (PG) associated with 1630 MW LTA granted at Bhadla – NCT recommended the above scheme for implementation through RTM with compressed time schedule of 8/9 months.

vii. ICT Augmentation works at existing Bhiwani (PG) ISTS S/S associated with LTA applications from SEZs in Rajasthan: NCT recommended the scheme for implementation through TBCB with implementation schedule of September 2020.

viii. 125 MVAR bus reactor at KalaAmb substation – NCT recommended the above scheme for implementation through RTM.

ix. 12-ohm series reactor at 400kV Mohindergarh S/s of M/s Adani. NCT recommended the above scheme for implementation through RTM.

x. 2 Nos. of 220kV bays at 3x315 MVA, 400/220kV Samba (Jatwal) (PG) S/s NCT recommended the scheme for implementation through RTM in the matching time frame of the transmission line (November 19).

B3: New ISTS Transmission Schemes in Southern Region:

i. High loading of Nellore - Nellore (PS) 400kV (Quad) D/c line: NCT recommended the above scheme for implementation through RTM.

B4: New ISTS Transmission Schemes in Northern Eastern Region:

i. Construction of 2 nos. 132 kV feeder bays at Malda 400 kV substation of POWERGRID. NCT recommended the above scheme for implementation through RTM.

C: TRANSMISSION SCHEMES DEFERRED FOR IMPLEMENTATION:

C1: Transmission schemes for providing connectivity to RE projects in potential wind energy and solar energy zones in WR [Lakadia(2000MW), Osmanabad(2000MW)& Solapur(1000 MW)]:

i. Name of Scheme: Transmission System for providing connectivity to RE projects in Gujarat [Lakadia(2000MW)]:

ii. Name of Scheme: Transmission system associated with RE generations from potential wind energy zones in Osmanabad area of Maharashtra

iii. Name of Scheme: Transmission system associated with RE generations from potential Solar Energy Zone in Maharashtra (1000 MW under Ph-I)

C2: Transmission system for providing connectivity to RE projects at Bikaner(PG), Fatehgarh-II & Bhadla –II:

i. Name of Scheme: Transmission system for providing connectivity to RE projects at Bikaner(PG):
ii. Name of Scheme: Transmission system for providing connectivity to RE projects in Bhadla-II:

iii. Name of Scheme: Transmission system for providing connectivity to RE projects in Fatehgarh-II:

C3: Evacuation of power from RE sources in Wind Energy Zones in Tamil Nadu, Karnataka and Andhra Pradesh

i. Name of Scheme: Evacuation of power from RE sources in Tirunelveli and Tuticorin Wind Energy Zone (Tamil Nadu)(500MW)

ii. Name of Scheme: Evacuation of power from RE sources in Karur / Tiruppur Wind Energy Zone (Tamil Nadu)(2500MW)

iii. Name of Scheme: Evacuation of power from RE sources in Koppal Wind Energy Zone (Karnataka) (2500MW)


It is proposed that the same may be developed as potential area of RE Generation and the SECI would apply for LTA for the same after relevant CERC orders are issued. It is mentioned that CERC order in respect of declaring SECI as eligible entity for LTA is expected soon.

C4: Name of Scheme: Strengthening of transmission system in Assam including formation of second 400kV node in ER-NER corridor-

NCT decided to defer the scheme till finalization of 765kV link with Bangladesh and explore other measures to enhance reliability of Bongaigaon sub-station.

D SCHEME FOR DE-NOTIFICATION:

"Transmission system for Phase-1 generation projects in Arunachal Pradesh":

In view of non-implementation of the HEPs planned to be pooled at Dinchang Pooling station, it was agreed in NCT that the scheme may be recommended for de-notification.

E: Any other issue with the permission of Chair

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### Summary of the Schemes:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of Scheme:</th>
<th>Estimated cost (in Rs. Crores)</th>
<th>NCT recomm.</th>
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<tr>
<td>1</td>
<td>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: WRSS-21 Part-A- “Transmission System strengthening for relieving over loadings observed in Gujarat Intra-state system due to RE injections in Bhuj PS</td>
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<td>RTM</td>
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<td>WRSS-21 Part-B- Transmission System strengthening for relieving over loadings observed in Gujarat Intra-state system due to RE injections in Bhuj PS:</td>
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<td>TBCB</td>
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<td>Transmission system associated with RE generations at Bhuj-II, Dwarka &amp; Lakadla</td>
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<td>Transmission System for providing connectivity to RE projects at Bhuj-II (2000MW) in Gujarat</td>
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<td>Transmission System for providing connectivity to RE projects in Gujarat [Lakadia(2000MW)]</td>
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<td>10</td>
<td>Transmission system associated with RE generations from potential Solar Energy Zone in Maharashtra (1000 MW under Ph-I)</td>
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12. Installation of 400/220 kV ICT along with associated bays at M/s CGPL Switchyard

13. Transmission system associated with LTA applications from Rajasthan SEZ Part-A

14. Scheme Transmission system associated with LTA applications from Rajasthan SEZ Part-B

15. Transmission system associated with LTA applications from Rajasthan SEZ Part-C

16. Transmission system associated with LTA applications from Rajasthan SEZ Part-D

17. ICT Augmentation works at existing Moga (PG) ISTS S/S associated with LTA applications from SEZs in Rajasthan

18. ICT Augmentation works at Bhadla(PG) associated with 1630 MW LTA granted at Bhadla

19. ICT Augmentation works at existing Bhiwani (PG) ISTS S/S associated with LTA applications from SEZs in Rajasthan

20. Transmission system for providing connectivity to RE projects at Bikaner(PG)

21. Transmission system for providing connectivity to RE projects in Fatehgarh-II

22. Transmission system for providing connectivity to RE projects in Bhadla-II

23. 125 MVAR bus reactor at KalaAmb substation

24. 12ohm series reactor at 400kV Mohindergarh S/s of M/s Adani

25. 2 Nos. of 220kV bays at 3x315 MVA, 400/220kV Samba (Jatwal) (PG) S/s

26. Evacuation of power from RE resources in Wind Energy Zones in Tamil Nadu, Karnataka and Andhra Pradesh

27. High loading of Nellore – Nellore (PS) 400kV (Quad) D/c line
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