



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली योजना एवं मूल्यांकन - I प्रभाग

Power System Planning &amp; Appraisal - I Division

सेवा में / To

-As per enclosed list-

विषय: "ट्रांसमिशन पर राष्ट्रीय समिति" (एनसीटी) की 8<sup>th</sup> बैठक की कार्यसूची।Subject: Additional Agenda for the 8<sup>th</sup> Meeting of "National Committee on Transmission" (NCT)

महोदया / महोदय / Sir / Madam,

The 8<sup>th</sup> meeting of the "National Committee on Transmission" (NCT) is scheduled to be held on 25.03.2022 at 11:00 am under the chairmanship of Chairperson, CEA & Chairman, NCT, through Video Conferencing (Microsoft Teams). The agenda for the meeting and the meeting link has already been circulated and uploaded on CEA's website.

In addition to the main agenda, CTUIL vide its email dated 22.03.2022 has requested for incorporational of an Additional Agenda item. The same is attached herewith.

भवदीय,

for.  25.03.2022

(रविंद्र गुप्ता / Ravinder Gupta)  
मुख्य अभियन्ता / Chief Engineer & Convener (NCT)

**Copy to:**

- (i) Joint Secretary (Trans), Ministry of Power, Shram Shakti Bhawan, New Delhi-110001.

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**List of addressees:**

1.	Chairperson, Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	2.	Member (Power System), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.
3.	Member (Economic & Commercial), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	4.	Director (Trans), Ministry of Power Shram Shakti Bhawan, New Delhi-110001.
5.	Sh. Dilip Nigam, Scientist 'G', MNRE, Block no. 14, CGO Complex, Lodhi Road, New Delhi – 110003	6.	Chief Operating Officer, CTUIL, Saudamini, Plot No. 2, Sector-29, Gurgaon – 122 001.
7.	Sh. Rajnath Ram, Adviser (Energy), NITI Aayog, Parliament Street, New Delhi – 110 001.	8.	CMD, POSOCO, B-9, Qutub, Institutional Area, Katwaria Sarai, New Delhi – 110010
9.	Dr. Radheshyam Saha, Ex. Chief Engineer, Central Electricity Authority	10	Shri Sushanta Kumar Ray Mohapatra, Ex. Chief Engineer, Central Electricity Authority

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**Additional Agenda for the 8<sup>th</sup> meeting of National Committee on Transmission****1. ISTS Network Expansion scheme in Western Region & Southern Region for export of surplus power during high RE scenario in Southern Region**

S. No.	Items	Details		
1.	Name of Scheme	ISTS Network Expansion scheme in Western Region & Southern Region for export of surplus power during high RE scenario in Southern Region		
2.	Scope of the scheme	<i>Sl.</i>	<i>Scope of the Transmission Scheme</i>	<i>Capacity /km</i>
		1.	Narendra New (GIS) – Pune (GIS) 765kV D/c line with 1x330MVA switchable line reactor on each ckt at both ends	340 km 765 kV line bays -2 (GIS) (at Narendra New) 765 kV line bays -2 (GIS) (at Pune) 765 kV, 330 MVA SLR – 2 nos (7 X 110 MVA incl. 1 switchable spare unit) at Pune (GIS) 765 kV, 330 MVA SLR – 2 nos (6 X 110 MVA) at Narendra (New) (GIS)
		2.	Upgradation of Narendra (New) (GIS) to its rated voltage of 765 kV level along with 4x1500 MVA transformer and 2x330 MVA Bus Reactor.	765/400 kV, 1500 MVA- 4 no. (13 X 500 MVA incl. 1 spare unit) 765 kV ICT bays- 4 nos.(GIS) 400 kV ICT bays- 2 nos.(GIS)^ 765 kV, 330 MVA BR – 2 nos. (7 X 110 MVA inc. 1 switchable spare unit to be used for both bus/line reactors) 765 kV Bus Reactor bays – 2 nos. (GIS)

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S. No.	Items	Details
		<p>*Narendra (New)(GIS) - Kolhapur 765kV D/c line to be kept charged at 400kV level</p> <p>^Out of required 04 nos. of 400kV ICT bays (GIS) for 765/400kV ICTs, 02 nos. of 400 kV ICT bays (GIS) for 765/400kV ICTs are under implementation through TBCB route under the scheme “Evacuation of Power from RE Sources in Koppal Wind Energy Zone (Karnataka) (2500 MW)”</p>
3.	Depiction of the scheme on Transmission Grid Map	<b>Annexure-I</b>
4.	Upstream/downstream system associated with the scheme	Not applicable
5.	Objective / Justification	<p>To cater to export requirement from SR under high RE scenario as well as to mitigate operational constraints being faced on Kolhapur – Kolhapur(MSETCL) 400kV D/c line under real-time as elaborated below:</p> <ol style="list-style-type: none"> <li>1. NLDC as part of operational feedbacks has highlighted the high loadings on transmission lines beyond Kolhapur (i.e. Kolhapur(PG)-Kolhapur(MH) 400kV D/c line, Kolhapur(MH)-Karad 400kV D/c line) which is attributable to multiple factors viz. high generation at Kudgi TPS, low generation at plants in southern Maharashtra, high load around Kolhapur area, high renewable (Solar) generation in Southern Region etc. In addition, number of large RE based generation projects are envisaged in Southern Region especially in the prioritized REZs of Koppal, Gadag, Karur and Tuticorin areas. Stage-II Connectivity and LTA applications have already been received / granted from a number of generation projects in these areas.</li> <li>2. Transmission system for integration and immediate evacuation of power from these REZs has already been planned and is under different phases of implementation. However, constraints are observed for export of surplus power from REZs in Southern Region to Western Region under high RE scenario in SR.</li> </ol> <p>Considering above aspects, the subject network expansion scheme has been proposed between WR and SR for export of surplus power from SR.</p>

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S. No.	Items	Details
6.	Estimated Cost	Rs. 2374 Crore
7.	Impact on the total Annual Transmission charges in % along with the existing ATC	A. ATC (considering Levelized Tariff @15% of estimated cost): 356.1 Crore B. Present ATC: Rs. 41,292.01 Crore <sup>#</sup> C. A/B (%): 0.862%
8.	Need of phasing, if any	Not Applicable
9.	Implementation timeframe	<b>18 months</b> from date of allocation to implementing agency / SPV Transfer (as the case may be).  Tentative time-frame: <b>Feb'24</b> (Considering 6 months for necessary approvals & subsequent award of the project)
10.	Inclusion of any wild life/protected area along the transmission line route	No major National Park, Wildlife Sanctuary or other protected areas observed. However, for details of forest/protected areas, survey is required to be done.
11.	Deliberations with RPC along with their comments	<b><u>SRPC:</u></b> The scheme was deliberated in the 40 <sup>th</sup> & 41 <sup>st</sup> SRPC meetings held on 31.01.2022 & 02.03.2022 respectively. The MoM of 41 <sup>st</sup> WRPC as well as views of SRPC vide their letters dated 07.03.2022 are attached at <b>Annexure-III &amp; Annexure-IV</b> respectively.  Subsequently, CTU vide letter dated 10.03.2022 (attached at <b>Annexure-V</b> ) requested SRPC to revise the MoM of 41 <sup>st</sup> SRPC meeting as well as its views vide letters dated 07.03.2022 reflecting the consolidated views of SRPC including States/SRLDC/POSOCO/CTU in line with actual deliberations held in the meeting.  <b><u>WRPC:</u></b> The scheme was deliberated in the 41 <sup>st</sup> WRPC meeting held on 23.02.2022. The views of WRPC vide their letter 04.03.2022 are attached at <b>Annexure-VI</b> .  Subsequently, CTU vide letter dated 10.03.2022 to WRPC (attached at <b>Annexure-VII</b> ) submitted its response to comments received from MSEDCL on the proposal.
12.	System Study for evolution of the proposal	Minutes of Joint study meeting for Western Region & Southern Region regarding transmission system strengthening beyond Kolhapur for export of power from Solar & Wind Energy Zones in Southern Region held on 16.12.2021 are attached at <b>Annexure-II</b> with details of study considerations, load flow and short circuit results for various alternatives studied during the meeting.

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## 2. ICT Augmentation associated with Transmission scheme for evacuation of 1500 MW from Gadag SEZ under Phase-II

- 2.1. Transmission scheme for evacuation of 1500 MW from Gadag SEZ Part A under Phase-II broadly comprised of 400/220 kV, 3x500 MVA ICT Augmentation at Gadag Pooling Station alongwith Gadag PS-Koppal PS 400 kV (high capacity equivalent to quad moose) D/c line. The same was taken up for deliberation in the 7<sup>th</sup> meeting of NCT held on 03.12.2021
- 2.2. 7<sup>th</sup> NCT agreed that ICT augmentation at Gadag PS scheme may be approved by CTU based on the progress of RE generations so that the transformation capacity can be optimized. The balance part of the scheme comprising of Gadag PS-Koppal PS 400 kV alongwith associated bays was approved by NCT for implementation through TBCB route. Accordingly, Transmission scheme for evacuation of 1500 MW from Gadag SEZ Part A : Phase-II comprising of the scope of works approved by 7<sup>h</sup> NCT has been notified vide Gazette notification dated 04.03.2022.
- 2.3. Subsequently, CTUIL vide its letter dated 23.12.2021 has informed that total Stage-II Connectivity at Gadag PS has reached 1560 MW. Further, as per information provided by SECI, additional connectivity applications for 600 MW and corresponding LTA applications are expected to be submitted by RE developers shortly for which PPA has already been signed between SECI and RE developers. In view of above, CTUIL has requested that augmentation of balance 400/220 kV, 3x500 MVA ICT (alongwith associated bays) and 4 nos. of 220 kV line bays for facilitating connectivity to RE developers may be taken up for deliberations/recommendations/approval in the upcoming NCT. The details of Stage-II and LTA is as indicated below:

S.No	RE Developer	Bidding Category	Stage-II	Connectivity start date as per intimation	LTA granted for (MW)	LTA Start date (Requested / Granted)	Beneficiary
1.	Vena Energy Vidyuth Private Limited	SECI Tr-IX	160	01.05.2022	160 (1200003276)	31.03.2023	Firm
2.	Renew Solar Power Pvt Ltd	SECI-RTC-I	300	31.12.2022	300 (1200003268)	31.12.2022	Target
3.	Azure Power India Private Ltd	SECI	120 +50	15.06.2023 22.07.2023	NA	NA	
4.	Green Infra Wind Energy Ltd	SECI	180	20.06.2023	180	31.07.2023/	Target (WR)
5.	Adani Renewable Energy Holding	SECI	450	31.07.2023	-	-	

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	Fifteen Limited						
6.	ReNew Naveen Urja Private Limited	SECI	300	31.07.2023	-	-	
7.	Roha Renewables India Pvt. Ltd.	Connectivity through Land & Finance route	115 MW		NA	31.12.2024/	
	<b>Total</b>		<b>1675</b>		<b>640</b>		

NCT may deliberate.