सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड
(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)
(भारत सरकार का उद्यम)
CENTRAL TRANSMISSION UTILITY OF INDIA LTD.
(A wholly owned subsidiary of Power Grid Corporation of India Limited)
(A Government of India Enterprise)

संदर्भ/Ref: CTU/E/00/55thCMETS-ER

दिनांक/Date: 20-05-2026

वितरण सूची के अनुसार/ As per distribution list

विषय/Subject: पूर्वी क्षेत्र में पारेषण योजनाओं के विकास के लिए 55वीं परामर्श बैठक की कार्यावली (सीएमईटीएस-ईआर) / Agenda for 55th Consultation Meeting for Evolving Transmission Schemes in Eastern Region (CMETS-ER)

महोदय /महोदया /Sir /Ma'am,

आईएसटीएस योजना और ओपन एक्सेस आवेदन प्रसंस्करण के लिए पूर्वी क्षेत्र में पारेषण योजनाओं के विकास के लिए **55वीं** परामर्श बैठक (सीएमईटीएस-ईआर) वीडियो कॉन्फ्रेंसिंग के माध्यम से नीचे दिए गए विवरण के अनुसार आयोजित होने वाली है:

The **55th** Consultation Meeting for Evolving Transmission Schemes in Eastern Region (CMETS-ER) for ISTS planning and open access applications processing is scheduled to be held through video conferencing as per details below:

विषय/Topic	: 55th CMETS-ER
दिनांक/Date & समय/Time	: 28th May 2026 at 10:30 am
दिन/Day	: गुरुवार/ Thursday
बैठक लिंक/ Meeting Link	: MS-Teams (in email)

इस संबंध में बैठक की कार्यावली अलग से प्रसारित की जाएगी, जो सीटीयू वेबसाइट (*www.ctuil.in >> ISTS Planning & Coordination >> Consultation Meetings for ISTS >> ER*) पर भी उपलब्ध होगी। कृपया उपरोक्त लिंक के माध्यम से बैठक में शामिल होने और रिटर्न मेल के माध्यम से इस संबंध में भागीदार होने की पुष्टि करें।

In this regard, the agenda of the meeting shall be circulated separately and the same will also be available on CTU website (*www.ctuil.in >> ISTS Planning & Coordination >> Consultation Meetings for ISTS >> ER*). It is requested to join the meeting through the above link and send confirmation of participation in this regard through return mail.

धन्यवाद/Thanking you,

भवदीय / Yours faithfully,

राजेश कुमार
20.05.2026

(राजेश कुमार) / (Rajesh Kumar)
मुख्य महाप्रबंधक (टीपी-I)/ Ch. General Manager (TP-I)

A. वितरण सूची के अनुसार/ Distribution List:

1. **Chief Engineer, PSP&A-II** Central Electricity Authority Sewa Bhawan, R.K.Puram New Delhi-110066	2. **Member Secretary** Eastern Regional Power Committee 14, Golf Club Road, Tollygunge Kolkata-700033
3. **Director (SO)** Grid Controller of India Limited 9th Floor, IFCI Towers, 61, Nehru Place, New Delhi-110016	4. **Executive Director** Eastern Regional Load Despatch Centre 14, Golf Club Road, Jubilee Park, Golf Gardens, Tollygunge, Kolkata, West Bengal - 700095
5. **CMD** Bihar State Power Transmission Company Ltd. (BSPTCL) Vidyut Bhavan, 4th floor, Bailey Road Patna - 800021	6. **Principal Chief Engineer cum Secretary** Power Department Government of Sikkim Gangtok, Sikkim
7. **CMD** Jharkhand Urja Sancharan Nigam Limited (JUSNL) Engineering Building, HEC, Dhurwa Ranchi -834004	8. **Managing Director** West Bengal State Electricity Transmission Company Ltd. (WBSETCL) Vidyut Bhavan, 8th Floor, A-Block Salt Lake City, Kolkata-700091
9. **CMD** Odisha Power Transmission Corporation Ltd. Bhoinagar Post Office, Jan path Bhubaneshwar-751022	10. **CMD** Damodar Valley Corporation DVC Towers, VIP Road Kolkata-700054

B. विशेष आमंत्रित /Special invitee:

1. **Director (Projects)** Power Grid Corporation of India Ltd. "Saudamini", Plot No. 2, Sec-29, Gurugram, Haryana-122001	

C. आवेदक /Applicants:

1. **Sh. Sanjay Nagrare** Director Ocior Energy Gopalpur One Private Limited 26/36, Basement, East Patel Nagar, New Delhi, 110008 sanjay.nagrare@ocior.in abhishek.gupta@ocior.in	2. **Sh. Rajesh Sodhi** Head Secretarial ACME Cleantech Solutions Private Limited Plot No. 152, Sector-44, Gurugram, Haryana 122002, India rajesh.sodhi@acme.in yogesh@acme.in
3. **Sh. Kura Ravi Kumar** Addl General Manager NTPC Ltd. NTPC Bhawan Kavadiguda Road, Musheerabad, Bansilalpet, Hyderabad, Secunderabad, Telangana 500080 kuraravikumar@ntpc.co.in abhishekkhanna@ntpc.co.in	4. **Sh. Rakesh** Senior Manager, Commercial Patratu Vidyut Utpadan Nigam Limited PVUNL, Patratu Jharkhand rakeshkumar07@ntpc.co.in halderprasenjit@ntpc.co.in
5. **Sh. Indu Bhusan Chakroborty** Chief Power Management Rashmi Metallurgical Industry Private Limited 39, Premlata Building, 6th Floor Shakespeare Sarani, Kolkata, West Bengal 700017 indu@rashmigroup.com pkyadav@rashmigroup.com	

Agenda for 55th Consultation Meeting for Evolving Transmission Schemes in Eastern Region (CMETS-ER)

1. Confirmation of minutes of the 54th CMETS-ER

1.1. The minutes of the 54th CMETS-ER held on 27-04-2026 were issued vide letter dated 21-05-2026. As no comment has been received, the minutes may be confirmed as circulated.

A. Connectivity and GNA application(s) related matters in ER

2. Connectivity/GNA/GNA$_{RE}$ applications under GNA Regulations, 2022

No new Connectivity/GNA/GNA$_{RE}$ application in Eastern Region has been received in the month of April 2026.

3. Connectivity/GNA/GNA$_{RE}$ applications under GNA Regulations, 2022 from previous CMETS-ER meeting

The following applications for grant of Connectivity/GNA/GNA$_{RE}$ have been received in Eastern Region in previous months:

Sl. No.	Application ID	Name of the Applicant	Applicant Type	Submission Date	Connection to ISTS (requested)	Quantum (MW)	Start date of GNA	End date of GNA
1	2200003400 (Revised)	Patratu Vidyut Utpadan Nigam Limited (PVUNL)	Injecting entity connected to Intra State	27-02-2026 (Original) 12-03-2026 (revised)	400 kV level at Katia, Patratu (JUSNL) S/s	360 (Within: 120 Outside:240)	01-03-2026	01-03-2051

- Applicant i.e. PVUNL [as an eligible entity under Regulation 17.1 (vi)] has applied for GNA as an injecting entity connected to Intra State transmission system for 360MW (Within Region: 120MW & Outside Region: 240MW) with start and end date as 01-03-2026 and 01-03-2051 respectively in Jharkhand.
- Applicant has submitted No Objection Certificate (NOC) dated 20-06-2025 of Jharkhand STU viz. JUSNL for 360MW (15% of 2400MW i.e. 3x800MW) with **Start date of NOC**: Date of COD of first unit and **End date of NOC**: 25 years from the COD of last unit. Further, applicant has mentioned the date of start of commercial operation of Unit#1 of Patratu STPP Phase-1 (3x800MW) as 05-11-2025. Furthermore, vide email dated 07-04-2026 regarding Units#2 & 3 (including last unit), it has been mentioned by the applicant that the said units are yet to be commissioned. Thus, 25 years from last unit shall be falling after 01-03-2051. Therefore, end date of the subject GNA shall be considered at 01-03-2051.

- PVUNL is connected to Ranchi (New) 400kV through PVUNL – Katia – Ranchi (New) 400kV line. Ranchi (New) is connected to ISTS grid through various 400kV & 765kV high capacity lines. No constraints are envisaged in ISTS-STU periphery and inter-regional corridors for exchange of 360MW from Jharkhand to ISTS network.
- In the 54th CMETS-ER, JUSNL had confirmed that start date and end date of NOC and all terms and conditions (including Intra state transmission charges) shall remain the same as mentioned in the NOC. However, the applicant had raised objections on the applicability of intra state transmission charges.
- It was also informed in the 54th CMETS-ER that as the start date of GNA mentioned as 01-03-2026 in the application is already passed, considering Regulation 22.2 (b-ii) and taking into account the Clause 5 (ix) (f) of the extant Procedure, the start date shall be 30 days from date of issuance of final intimation.

  5 (ix) (f) Date from which the Connectivity is sought Applicant shall only submit a singular date as the start date of Connectivity and such date shall be subsequent to the date of the application;

  Provided that the start date submitted in the application shall not by itself entitle the applicant for grant of Connectivity from such a date;

  Provided further that in case the start date sought by the entity has passed at the time of grant of connectivity and connectivity is proposed to be granted with existing transmission system, CTU shall grant connectivity with a start date of 30 days from date of issuance of final intimation. The Connectivity grantee shall be obligated to complete post-grant compliances including signing of Cat-1 Agreement at least 7 days prior to the start date stipulated by CTU in the final intimation.
- In 54th CMETS-ER, applicant had mentioned that they need further deliberations with JUSNL regarding payment of Intra-state transmission charges of Jharkhand. In view of differences between applicant and JUSNL on applicability of Intra-state transmission charges of Jharkhand, and uncertainty from applicant regarding revised start date, it was decided that matter may be resolved within 10 days and decision may be intimated to CTUIL for further processing of the application. **The applicant and JUSNL may update.**
- In view of the above and **subject to clarifications from JUSNL/applicant**, it is proposed to grant 360MW GNA (Within Region: 120MW & Outside Region: 240MW) to PVUNL as an injecting entity connected to intra state system through existing ISTS (no augmentation required). Accordingly, as per Regulation 22.2 (b-ii) read with Regulation 8, the applicant shall be liable to submit Conn-BG1 of ₹ 50 Lakh and Conn-BG3 at ₹ 2 Lakh/MW. Further, as per Regulation 22.2 (d), the applicant shall also be liable to furnish one-time GNA charge of ₹ 1 Lakh/MW for the quantum of GNA one month prior to the start date of GNA.
- **The applicant and JUSNL may update.** Matter may be deliberated.

4. Connectivity applications under GNA Regulations, 2022 received in previous months

Sl. No.	Application ID	Name of the Applicant	Applicant Type	Submission Date	Connection to ISTS (requested)	Quantum (MW)	Connectivity sought from
1	2200003012 (Revised Application)	NTPC Limited	Generating station(s), including REGS(s), without ESS	09-01-2026	Darlipalli Stage-I generation switchyard	400	31-07-2029

- Applicant i.e. NTPC Limited [as an eligible entity under Regulation 4.1] has applied for ISTS connectivity as Generating station(s), including REGS(s), without ESS for 400MW with start date as 31-07-2029 for its NTPC Darlipalli STPP Stage-II (1x800MW) generation project in Odisha. NTPC has also informed that the commissioning schedule of the plant is 30-11-2029. The Stage-II is proposed as dual connected unit (ISTS as well as intra-state).
- Presently, the total GNA of Darlipalli Stage-I generation project (2x800MW) is 1600MW [1498MW deemed GNA under 18.1 and 102MW under Regulation 37.6(1)]. NTPC has requested that Darlipalli STPP Stage-II project may be connected with existing Stage-I switchyard for ISTS Connectivity. Darlipalli Stage-I is connected to ISTS through Darlipalli – Sundargarh (POWERGRID) 765kV D/c line.
- NTPC in instant application has sought 400MW ISTS connectivity and has mentioned that for other 400MW Intra-state (OPTCL) connectivity has already been applied by NTPC Ltd. to OPTCL. OPTCL has confirmed their 400MW share for power drawal from Darlipalli Stage-II generation.
- OPTCL vide email dated 20-03-2026 has informed that the evacuation of the intra-state share is proposed through the 765kV Darlipalli – Kolabira transmission corridor and the same shall be implemented by OPTCL. Further evacuation system comprises of 765/400kV Kolabira (OPTCL) S/s, 765/400kV Duburi S/s along with Sundargarh-B (POWERGRID) – Kolabira 765kV D/c line and Kolabira – Duburi 765kV D/c line to be implemented under Intra-State scheme of OPTCL with expected commissioning schedule of 2029-30.
- Regulation 5.6 of GNA Regulations inter alia provide that "*An Applicant may apply for grant of Connectivity at (i) a terminal bay of an ISTS sub-station already allocated to another entity which has been intimated in-principle or final grant of Connectivity under Regulation 4 of these regulations or (ii) switchyard of a generating station having Connectivity to ISTS [application under Regulation 4.1 (e)], or (iii) a terminal bay of an ISTS sub-station already allocated to an entity covered under Regulation 17.1(iii) of these regulations, with an agreement duly signed between the Applicant and the said entity for sharing the terminal bay, switchyard, and dedicated transmission lines, as the case may be*…"
- ISTS Connectivity at switchyard of a generating station having Connectivity to ISTS is applicable to application under Regulation 4.1 (e) viz. *"REGS or standalone ESS with an installed capacity of 5 MW and above applying for grant of Connectivity to ISTS through the electrical system of a generating station already having Connectivity to ISTS"*. In the instant case, applicant has requested Connectivity

of Stage-II at its Stage-I generation switchyard. Accordingly, the matter regarding Connectivity of Stage-II to Stage-I needs review. Moreover Stage-II is planned as dual connected whereas Stage-I is ISTS connected, accordingly, connection of both phases shall also result in connection of Stage-I to intra-state system.

- In the 53rd CMETS-ER, NTPC mentioned that with coming into effect of 3rd amendment of GNA Regulations, above change has occurred in Regulation 5.6. They further mentioned that they shall also parallelly take up the matter with CERC. Accordingly, it was agreed that matter should be deliberated in the forthcoming CMETS-ER meeting upon clarity on providing Connectivity of Stage-II at Stage-I and detailed studies are also required in view of Stage-II becoming dual connected. It was understood that applicant vide letter 06-04-2026 has taken up the matter with CERC requesting clarification.
- In the 54th CMETS-ER meeting, following was deliberated and agreed:
  - NTPC mentioned that as per their interpretation above changes made through the 3rd amendment of GNA Regulations are to facilitate additional integration of REGS and standalone ESS in the existing switchyard. However, these changes made through the amendment does not limit the connectivity like instant application. Accordingly, NTPC requested to grant the instant connectivity on the basis of technical grounds.
  - ERPC, ERLDC and CTU had jointly agreed that technical feasibilities for instant connectivity application can be explored or examined. However, grant of instant connectivity is bound by regulatory aspect. Accordingly, the instant application shall be processed upon receipt of clarifications or amendment from the CERC.
  - CTU had presented the system studies with alternative proposed by NTPC and OPTCL for instant application. It was observed that with interconnection of Stage-I and Stage-II of Darlipalli generation, the power flows through Darlipalli – Kolabira 765kV D/c intra state transmission line towards Intra-state system of OPTCL, much more than their share of 400MW. OPTCL was requested to review the intra-state system so that power flow to In-STS is commensurate with In-STS Connectivity quantum. ERLDC requested to share the study files for their comments. Accordingly, it was decided that upon receipt of comments/observations from Grid-India and OPTCL on technical studies, the matter shall be deliberated in a joint study meeting among stakeholders. Application shall be processed upon receipt of clarification on the matter raised with CERC.
- GRID-INDIA and OPTCL may update on the studies.
- Applicant may update regarding receipt of clarification on the matter raised with CERC.

2	2200001419	Rashmi Metallurgical Industry Private Limited (RMIPL)	Captive generating plant	30-10-2024	Not mentioned	180	30-04-2029

- M/s Rashmi Metallurgical Industry Private Limited (RMIPL) [erstwhile Orissa Metallurgical Industry Private Limited (OMIPL)] under regulation 4.1 as Captive generating plant had applied for 270MW & 180MW ISTS Connectivity under GNA Regulations, 2022 for its captive plant in West Bengal.
- The said applications were deliberated in the 37th and 38th CMETS-ER, wherein it was agreed to grant ISTS Connectivity to M/s RMIPL for both applications (270MW & 180MW) with LILO of one circuit of Chaibasa (POWERGRID) – Kharagpur (WBSETCL) 400kV D/c ISTS line at RMIPL generation switchyard. Further, it was also agreed that proposed LILO arrangement shall be implemented as an ATS under ISTS scheme namely Eastern Region Generation Scheme-IV (ERGS-IV).
- M/s RMIPL vide letter ref. no. OMIPL/ISTS/CTUIL/25-26/01 dated 09-05-2025 had submitted withdrawal of its 270MW connectivity application (Application No. 2200001245). Accordingly, CTUIL vide letter dated 30-05-2025 closed the 270MW ISTS connectivity application and adjusted applicable Conn-BG2 amounting to ₹38.4 Cr. linked with application no. 2200001419 in respect of ATS i.e. ERGS-IV was furnished by M/s RMIPL. The intimation for final grant of connectivity of 180MW was issued to RMIPL vide letter dated 29-09-2025 with a start date of connectivity as 30-04-2029.
- Meanwhile, Transmission Licence petition (824/TL/2025) of ERGS-I scheme filed by M/s Angul Sundargarh Transmission Limited (ASTL) [acquired by M/s H.G. Infra Engineering Limited] was ongoing at CERC. The ERGS-I scheme includes LILO of both circuits of Angul – Sundargarh (Jharsuguda) 765kV 2xS/c lines at NLC-Talabira generation switchyard for providing ISTS Connectivity of 2000MW to NLC Ltd. for its Talabira (2400MW) generation project (400MW Connectivity is in intra-state). In the said petition, CERC vide RoP dated 13-11-2025 had inter alia directed that *"(e) CTUIL to clarify the reasons for not planning the instant transmission line as a dedicated transmission line for the generating station in terms of Section 10 of the Act, read with Regulation 12.1 of the 2022 GNA Regulations, on an affidavit, within two weeks."*.
- As the ATS of M/s RMIPL i.e. ERGS-IV was of similar nature of ERGS-I and the start date as well as planned SCoD of ERGS-IV was 30-04-2029, the scheme was not taken up for further approvals. It was decided to wait for CERC order in petition no. 824/TL/2025.
- Hon'ble CERC vide interim order dated 13-02-2026 mentioned the following:

  "…

  The Dedicated Transmission Line (DTL) emanating from a generating station is required to be established, operated, and maintained by such generating station. ***(Para no. 28)***

  …"

  "…

  the LILO has arisen solely to carry power for the instant generating station and not to carry power of other generating stations. The definition of "DTL" under clause 16 of Section (2) of the Act states that any electric supply line, herein impugned LILO, connecting a

power plant (herein NLC Talabira TPP) to any transmission lines (herein Angul- Sundergarh A (Jharsuguda) 765kV D/c line). Accordingly, DTL is not only a sub-station to sub-station inter-connection, but it also includes interconnection of a sub-station to a transmission line, as the impugned LILO is an arrangement connecting a generating switchyard to an ISTS line, securing a dedicated path for power flow. We note that the since Act and the regulations put the responsibility of construction and maintenance of such DTL on the generating station, the same should have been considered accordingly by CTUIL. ***(Para no. 30)***

…"

"…

Since the bidding process under Section 63 of the Act has already been completed, and the TSA has been signed, the transmission system is required to be constructed for evacuation of power from the generating station. Considering the material on record, we are constrained to propose the grant of the transmission licence to the Petitioner company. However, the transmission charges shall be recovered from the generating station. The parties are directed to submit their comments on the proposal for the grant of a transmission licence along with the recovery of transmission charges as proposed above, within two weeks. ***(Para no. 33)***

…"

- In continuation of the above interim order, Hon'ble CERC vide order dated 07-04-2026 mentioned the following:

  "…

  Vide interim Order dated 13.02.2026, we have observed that the instant transmission scheme for evacuating power from the NLC Talabira Generation Station, being a Dedicated Transmission Line, ought to be established by NLC Talabira TPP. In such a case, there was no requirement to grant a transmission licence. However, considering that the bidding process under Section 63 of the Act has already been completed and the TSA has been signed, the Commission had proposed granting the transmission licence to the Petitioner, to ensure the timely availability of the transmission system for the evacuation of power from the generating station. The transmission licence was proposed, and it was also indicated that transmission charges for the instant scheme shall be recovered from the generating station, i.e., NLC Talabira, to which no objections/ suggestions have been filed by any party. ***(Para no. 10)***

  …"

- From above CERC orders it is understood that wherever LILO arrangement is planned for ISTS Connectivity, the LILO portion is to be treated as DTL and should be under the scope of the applicant. In the instant case, the ISTS scheme viz. ERES-IV is of similar nature of ERGS-I and is yet to be taken up for approval. Accordingly, keeping in view the above CERC orders, following is proposed:

(a) Instant Connectivity (180MW) may now be granted through existing transmission system instead of ATS, with requirement that LILO of one circuit of Chaibasa (POWERGRID) – Kharagpur (WBSETCL) 400kV D/c ISTS line at RMIPL generation switchyard shall be implemented as DTL by the applicant.

(b) In view of no ATS, Conn-BG2 of ₹ 38.4 Cr. (cost of ATS) shall be returned upon submission of Conn-BG3 of ₹ 3.6 Cr. (2 Lakh / MW x 180 MW) due to revision in nature of Connectivity system from ATS to existing transmission system along with above mentioned DTL (under the scope of applicant). The revised requirement of Conn-BGs shall be intimated through a letter to the applicant.

(c) Conn-BG1 already submitted can be retained.

(d) Final grant of Connectivity shall be revised upon submission of revised Conn-BGs.

- Matter may be deliberated.

5. GNA applications under GNA Regulations, 2022 received in previous months

Sl. No.	Application ID	Name of the Applicant	Applicant Type	Submission Date	Connection to ISTS (requested)	Quantum (MW)	Start date of GNA_{RE}	End date of GNA_{RE}
1	2200003016	ACME Cleantech Solutions Private Limited (ACSPL)	Bulk consumer (including Green Hydrogen/Green Ammonia) seeking to connect to ISTS directly	09-01-2026	400 kV level at **Gopalpur** (ISTS)	2000 (Within: 0 Outside:2000)	31-08-2029	31-08-2054
2	2200003030	OCIOR Energy Gopalpur One Private Limited (OEGOPL)	Bulk consumer (including Green Hydrogen/Green Ammonia) seeking to connect to ISTS directly	17-01-2026	220 kV level at **Gopalpur** (ISTS)	200 (Within: 0 Outside:200)	31-03-2029	31-03-2054
3	2200003064	ACME Cleantech Solutions Private Limited (ACSPL)	Bulk consumer (including Green Hydrogen/Green Ammonia) seeking to connect to ISTS directly	23-01-2026	400 kV level at **Paradeep** (ISTS)	1300 (Within: 0 Outside:1300)	31-08-2029	31-08-2054
4	2200003065	ACME Cleantech Solutions	Bulk consumer (including Green Hydrogen/Green	23-01-2026	400 kV level at **Paradeep** (ISTS)	3000 (Within: 0 Outside:3000)	31-08-2028	31-08-2053

		Private Limited (ACSPL)	Ammonia) seeking to connect to ISTS directly					

- The above applications [as an eligible entity under Regulation 17.1 (iii)] were received in January 2026 for grant of GNA_{RE} as a Bulk consumer (including Green Hydrogen/Green Ammonia) seeking to connect to ISTS directly at 765/400kV Gopalpur (ISTS) and 765/400kV Paradeep (ISTS) S/s in Odisha as detailed above. These applications are in conformity to the prevailing GNA Regulations, 2022.
- Gopalpur ISTS substation has been planned with 2x1500MVA, 765/400kV ICTs under the ERES-XXXIX transmission schemes. The project is presently under execution with expected COD of Dec 2028 (SCOD: 31-12-2027). Presently, M/s Avaada Greenh2 Pvt Ltd. has been granted 700MW of GNARE at 400kV level of Gopalpur substation. Accordingly, considering N-1 contingency criteria, the available transmission margin at the 765/400 kV transformation level with 2x1500 MVA ICTs is 800 MW. Further, OPTCL has mentioned that they have anticipated a load of about 960MW at Gopalpur (OPTCL) S/s.
- Paradeep ISTS substation has been planned with 2x1500MVA, 765/400kV ICTs under the ERES-XXXIV transmission schemes. The project is presently under execution with expected COD of Dec 2027 (SCOD: 06-11-2026). Presently, M/s ReNew E-Fuels Private Limited (REFPL) has been granted 750MW of GNARE at 400kV level of Paradeep (ISTS) substation. Accordingly, considering N-1 contingency criteria, the available transmission margin at the 765/400 kV transformation level with 2x1500 MVA ICTs is 750 MW. Now, M/s ACME Cleantech Solutions Private Limited (ACSPL) has applied for 4300MW (3000MW+1300MW) GNARE and requested to grant GNARE at 400kV level of Paradeep substation. Further, OPTCL has mentioned that they have anticipated a load of about 1100MW at Paradeep (OPTCL) S/s.
- At the para 11 of the recent CERC order dated 13-02-2026 in petition no. 73/TL/2025, the commission has directed the following:

  "We direct that the entities covered under Regulation 17.1(iii) shall deposit cost of Rs. 16lacs/MW for the GNA/ GNARE quantum for such entities covered under Regulation 17.1(iii), who have been granted GNA/GNARE (or who shall be granted GNA/GNARE) at such substation Navinal: 4500 MW, Kandla: 3000 MW, Kakinada GH: 3000 MW, Tuticorin GH: 3000 MW, Pendurthi GH: 4500 MW, Paradeep: 1500 MW, Gopalpur: 1500 MW. The CTUIL is directed to raise the bill @16 lac/MW to the GNA/GNARE grantees within 15 days of this Order. The entities are directed to deposit the intimated amount, within 30 days of intimation, in terms of the earlier Order dated 18.12.2025. In the event of failure, the GNA/ GNARE grants to such entities shall be cancelled, and available BGs shall be treated as per the extant GNA Regulations. CTUIL shall keep this amount in a separate account under an appropriate deposit scheme."
- In the 54th CMETS-ER, the following was deliberated:
  - M/s OEGOPL and M/s ACSPL had confirmed that after detailed evaluation they have concluded to connect at 400 kV to meet their drawl requirements.

- CTU informed that the load profile of M/s OEGOPL has been received. The submitted data comprises of only active power (MW), and the reactive power drawal by the applicant was missing. Further, it was observed that there was vide variation in active power drawl during the day. M/s OEGOPL mentioned that the drawal requirement is based on the mix of solar and wind profile from which they would source power.
- CTU stated that the load profile of M/s ACSPL has not yet been received. In response, M/s ASCPL informed that they have a load profile of a similar 1550 MW plant and requested CTU to extrapolate it as per current drawl requirements, to which CTU agreed that the load profile may be submitted in Excel format for analysis and proper interpretation.
- Both M/s OEGOPL & M/s ACSPL confirmed that they would meet the reactive power requirement at their end according to all the technical criteria as per extant CEA and CERC Regulations.
- CTU had presented an alternative proposal to provide GNA to the applicants through LILO of Angul-Srikakulam D/c line at Gopalpur and Paradeep – Gopalpur 765kV D/c line alongwith associated 765/400kV ICTs at Paradeep and Gopalpur. GRID-INDIA and OPTCL, prima facie, agreed to the new proposal and requested study files from CTU for detailed evaluation. It was decided that a joint study meeting would be convened for further discussion on the proposal upon receipt of comments from GRID-INDIA.
- M/s OEGOPL & M/s ACSPL had requested CTU to deliberate the necessary augmentation required to connect to ISTS. According to the interpretation of CERC order dated 13-02-2026 in petition no. 73/TL/2025 by them, necessary augmentation only comprise of 765/400kV ICTs alongwith associated bays. Therefore, they suggested CTU to review the interpretation of the order.
- CTU had mentioned that the said CERC order is specific in nature for 7 locations indicating quantum of initially planned transmission capacity [i.e. Navinal: 4500 MW, Kandla: 3000 MW, Kakinada GH: 3000 MW, Tuticorin GH: 3000 MW, Pendurthi GH: 4500 MW, Paradeep: 1500 MW, Gopalpur: 1500 MW]. CTUIL is in receipt of GNA_{RE} applications which are beyond initially planned transmission capacities at these locations, which may happen at other locations as well, in future. Thus, the additional GNA/GNA_{RE} beyond the quantum mentioned in the CERC order shall be granted in accordance with Regulation 12.5 (which is reproduced below) i.e. the DTL along with associated line bays and necessary augmentation for providing connection to the ISTS, has to be constructed and maintained either by the entity itself or by a licensee at the cost of such entity.

- Based on the deliberation in the 54th CMETS-ER, following was agreed:
  - CTU shall share the study files to GRID-INDIA and OPTCL and they shall review the same and submit their observations.
  - Applicants shall submit hourly load profile (MW and MVAR) of the green hydrogen demand.
  - Reactive compensation requirement at applicant facility and ISTS end shall be finalised based on above load profile and further system studies (to be carried out considering load profile).
  - DTL along with associated line bays and necessary augmentation for providing connection to the ISTS, has to be constructed and maintained either by the entity itself or by a licensee at the cost of such entity.

- Based on the comments/observations from GRID-INDIA, OPTCL, and the additional inputs from the applicants, detailed studies shall be carried out and presented in the next CMETS-ER meeting.

- CTU vide email dated 15-05-2026 and subsequent reminder dated 19-05-2026 has requested applicants to submit hourly load profile (MW and MVAR) of the green hydrogen demand. **The data is yet to be received from the applicants. It may be noted that in case of non-submission of reactive power drawal data, CTU shall be constrained to assume the worst case reactive power drawal requirement as per CEA's Manual on Transmission Planning Criteria i.e. 0.95 lagging and carry out the studies for finalization of transmission system including reactive power compensation requirement for subject GNA_{RE}.**
- CTU vide email dated 07-05-2026 has shared the PSSE files to GRID-INDIA, OPTCL & ERPC. **GRID-INDIA and OPTCL may provide their comments/observations** on the planned transmission system required for providing GNA_{RE} to the applicants.
- Matter may be deliberated.

B. ISTS expansion schemes in ER

6. Status of downstream 220kV or 132kV network by STUs from the various commissioned and under-construction ISTS substations in ER

6.1. Numbers of ISTS sub-stations have been commissioned and some are under construction for which the downstream system is being implemented by the STUs. Based on the information provided by the states, updated information on planned/under-construction downstream system is given at **Annexure-I**.

6.2. STUs may update the status of the downstream system given at **Annexure-I** prior to the meeting for further deliberations in the meeting, if any.

7. Status of 400kV substations being implemented by STUs/entities in ER to be connected through ISTS

7.1. Various 400kV substations have been approved in the intra-state strengthening schemes in ER having interconnection with ISTS grid involving LILO of ISTS lines or direct connection to ISTS substations. Status of such intra-sate substations as per available information is given at **Annexure-II**.

7.2. STUs may update the status of the transmission system given at **Annexure-II** prior to the meeting for further deliberations in the meeting, if any.

8. Status of space allocated at various ISTS substations to STUs for implementation of line bays under intra state system) for their intra state lines

8.1. Space at various ISTS substations have been allocated to STUs for creation of line bays for termination of their new intra-state. List of such ISTS substations as per available information is given at **Annexure-III**.

8.2. STUs may update the status of the bays given at **Annexure-III** prior to the meeting for further deliberations in the meeting, if any.

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Annexure-I

Status of Downstream Transmission Network in ER

Sl. No.	ISTS S/s	State	Voltage ratio, Trans. Cap	Downstream Voltage level (kV)	Unutilised bays	Status of ISTS	STU lines for unutilised bays	Status of Lines	
								Date of Award	Completion schedule
1.	Chaibasa	Jharkhand	400/220kV, 2x315MVA	220	2	Existing bay	Chaibasa (POWERGRID) – Jadugoda (JUSNL) 220kV D/c	31st Jan 2025	Mar 2027
2.	Daltonganj	Jharkhand	400/220/132kV, 2x315MVA+ 2x160MVA	132	2	Existing bay	Daltonganj (POWERGRID) – Chatarpur 132kV D/c	22-10-2019	April 2026
3.	Dhanbad	Jharkhand	400/220kV, 2x500MVA	220	2	Existing bay	Dhanbad – Baliyapur 220kV D/c line	07-11-2023	Nov 2026
4.	Malda	West Bengal	400/220kV 2x500MVA + 220/132kV, 3x160MVA	132	2 no. new 132kV GIS line bays	132kV upgradation in GIS ongoing. 4 out of 7 bays completed. Balance 3 to be completed by end of Dec 23	Malda (POWERGRID) – Manikchak (WBSETCL) 132kV D/c line	15-02-2023	Line works completed and charged at no-load on 17-08-2024. Date of Commissioning of Manikchak 132kV Substation is 19-11-2024. Connectivity agreement with CTUIL is under progress. (Application Id – 2200003014)
5.	Maithon	West Bengal	400/220kV 3x500MVA	220	2	2 No. of 220kV line bays are under ISTS Scope SCoD: 31-12-2028	Dendua (WBSETCL) – Maithon (POWERGRID) 220kV D/c HTLS line	-	2030-31 (As per resource adequacy plan of West Bengal)
6.	Sitamarhi (New)	Bihar	400/220/132kV, 2x500MVA + 2x200MVA	132	2	Existing bay	LILO of Benipatti - Pupri 132kV S/c at Sitamarhi (New)	Awarded	Expected by May 2026 due to RoW issue.
7.	Saharsa (New)	Bihar	400/220/132kV, 2x500MVA + 2x200MVA	132	2-ISTS (addln.4 by state)	Existing bay	LILO of 3 no. of 132 kV intra-state lines (viz. LILO of Saharsa (BSPTCL) –	Awarded	Bays charged on 07.12.2024. Connectivity agreement with CTUIL

Sl. No.	ISTS S/s	State	Voltage ratio, Trans. Cap	Downstream Voltage level (kV)	Unutilised bays	Status of ISTS	STU lines for unutilised bays	Status of Lines	
								Date of Award	Completion schedule
							Banmankhi (BSPTCL) 132kV S/c, Saharsa (BSPTCL) – Udakishunganj (BSPTCL) 132kV S/c, one circuit of Madhepura (BSPTCL) – Sonebarsa (BSPTCL) 132kV D/c lines) at 400/220/132 kV Saharsa (New) (PMTL) ISTS S/s along with construction of 4 nos. of 132 kV line bays at Saharsa (New) (PMTL) S/s		is under progress. (Application Id – 2200002100)
8.	Banka	Bihar	400/220/132kV, 2x500MVA + 2x200 & 1x315MVA	220	2	Oct 2024	Banka (POWERGRID) – Goradih (Sabour New) 220kV D/c line (around 45km) along with 2 nos. 220kV GIS line bays at Goradih (Sabour New) S/s/	**Line:** 03-03-2023. **Bays:** 05-03-2024	**Line**: Line charged on 30.10.2024 (Ckt-I) & 05.11.2024 (Ckt-II) **Bays**: May 2026
9.	Lakhisarai	Bihar	400/220kV, 2x500MVA	220	2	May 2025	Lakhisarai (POWERGRID) – Haveli Kharagpur 220kV D/c line along with 2 no. 220kV line bays at Haveli Kharagpur	05-03-2024	April 2026

Annexure-II

Status of 765kV, 400kV & 220kV substations being implemented by STUs/entities in ER to be connected to ISTS.

Sl. No.	Substation/Location	Transformation Capacity/ Element	Date of Award	Completion Schedule
A	**Bihar (to be implemented by BSPTCL)**			
I	**Chappra (New)**	400/220/132kV, 2x500MVA + 2x200MVA	21-06-2024 (land acquisition acquired)	07-02-2027
a)	LILO of 400 kV Barh (NTPC) – Motihari (DMTCL) D/C (Quad) transmission line at Chappra	400kV 2xD/c	Dec-23	Feb 2027
B	**Odisha (to be implemented by OPTCL)** #			
I	**Gopalpur GIS**	400/220kV, 2x500MVA	LoA Issued.	Dec 2027
a)	Pandiabili (POWERGRID) – Gopalpur 400kV D/c (AAAC Twin Moose) line	400kV D/c	Kept on hold	-
II	**Therubali**	400kV switching station along with 420kV, 1x125MVAr bus reactor	Survey completed. Land schedule is under preparation. Tender will be floated by Mar 2026.	24 Months from award
a)	Gopalpur – Therubali – Jeypore (POWERGRID) 400kV D/c line	400kV D/c	To be taken after tendering of Therubali S/s.	24 Months from award
III	**Bhadrak**	400/220kV, 2x500MVA	Location shifted to Ramakrushunapur near Bhadrak. Land identification & survey completed.	24 Months after award
a)	LILO of Baripada – New Duburi and Baripada – Pandiabili 400kV line sections at Bhadrak	400kV D/c	Earlier tender of Bhadrak was cancelled due to high cost. LoA shall be issued by Jan'26.	24 Months after award
IV	**Paradeep**	400/220kV, 2x500MVA	Dec 2022	June 2026
a)	Paradeep – New Duburi 400kV D/c line (136 km)	400kV D/c	Line work delayed due to RoW issues.	Dec 2026
V	**Joda New / Basudevpur**	400/220kV, 3x500MVA	Govt. of Odisha has decided that the scheme shall be implemented by OPTCL and not under TBCB. Tender floated, yet to be awarded.	24 Months after award
a)	LILO of Rourkela (POWERGRID) – Talcher (NTPC) 400kV D/c line at Joda New / Basudevpur	400kV D/c	Govt. of Odisha has decided that the scheme shall be implemented by OPTCL and not under TBCB. Taken up along with Joda New / Basudevpur S/s.	24 Months after award
VI	**Duburi**	765/400kV 2x1500MVA	-	OPTCL may update
a)	LILO of both circuits of Angul – Paradeep 765kV D/c line at Duburi	765kV 2xD/c	-	OPTCL may update

Sl. No.	Substation/Location	Transformation Capacity/ Element	Date of Award	Completion Schedule
VII	**Kolabira**	765/400kV, 2x1500MVA	Land is identified.	24 Months after award
a)	Sundargarh-B (POWERGRID) – Kolabira 765kV D/c line	765kV D/c	Survey work order in process. Re-locating the new land site.	24 Months after award
b)	Kolabira – Duburi-765kV 765kV D/c line	765kV D/c	Survey work order in process	24 Months after award
VIII	**Tarkera**	400/220kV 2x500MVA	Upgradation of existing 220/132kV Tarkera S/s	24 Months after award
a)	LILO of both circuits of Sundargarh-A – Rourkela 400kV D/c line (ckt. no. 1 and 3) at Tarkera S/s	400kV D/c	-	24 Months after award
C	**Jharkhand (to be implemented by JUSNL)**			
I	**Chandil (New)**	400/220kV, 2x500MVA	Awarded in Jan 2024	July 2027
a)	PVUNL – Chandil 400kV D/c (Quad) line (130km) (80MVAr sw. line reactor at Chandil end)	400kV D/c (Quad)	20-07-2023	Dec 2026
b)	Chandil – Chaibasa (POWERGRID) 400kV D/c (Quad) line (50km)	400kV D/c (Quad)	20-07-2023	June 2026
c)	Chandil – Dhanbad (ISTS) 400kV D/c (Quad) line (130km)	400kV D/c (Quad)	20-07-2023	June 2026
II	**Extn. at Chaibasa (ISTS) S/s**	2 no. 400kV line bays at Chaibasa (ISTS) S/s for termination of Chandil – Chaibasa (ISTS) 400kV D/c (Quad) line	JUSNL mentioned that they initially focused on award of lines first. Now, bay works would be taken up. CTU highlighted that as line works have already been awarded in July 2023 with 24 months completion schedule, associated line bay works at Chaibasa and Dhanbad ISTS substations may also be taken up expeditiously to avoid mismatch in line and bay implementation. **Bay space along with bay no. have already been indicated in the 28th CMETS-ER held 23-02-2024. JUSNL agreed to expeditiously take up implementation of terminal bays at Chaibasa and Dhanbad ISTS substations. Cost estimate prepared and looking for funding.**	
III	**Extn. at Dhanbad (ISTS) S/s**	2 no. 400kV line bays at Dhanbad (ISTS) S/s for termination of Chandil – Dhanbad (ISTS) 400kV D/c (Quad) line		
IV	**Koderma**	400/220/132/33kV, 2x500MVA + 2x200MVA + 2x80MVA	July 2024	July 2026 (24 months from the award date)
a)	PVUNL – Koderma 400kV D/c (Quad) line (133km) (80MVAr sw. line reactor at Koderma end)	400kV D/c (Quad)	20-07-2023	July 2026
V	**Latehar**			
a)	Patratu – Latehar 400kV D/c line	400kV D/c	Forest Stage-I clearance is awaited.	**Not updated.**

Sl. No.	Substation/Location	Transformation Capacity/ Element	Date of Award	Completion Schedule
b)	Latehar – Chandwa (POWERGRID) 400kV D/c line	400kV D/c	Work in Progress. However, progress is slow.	Completed and commissioned on 14-12-2024. **(Connectivity agreement is not signed yet)**
D	**West Bengal**			
(to be implemented by WBSETCL)				
I	**Laxmikantpur (Upgradation of existing 220/132kV to 400kV level)**	400/132kV, 2x315MVA		Mar 2028
a)	LILO of one circuit of Jeerat (New) – Subhasgram 400kV D/c (Quad) line at New Laxmikantpur *(Interim arrangement: LILO of Haldia – Subhasgram 400kV D/c line at Laxmikantpur)*	400kV D/c		Mar 2028
II	**NT AA-III (up-gradation from NT AA-III 220/132kV to 400/220/132kV)**	400/220kV, 2x500MVA		
a)	LILO of the Jeerat (WBSETCL) – Subhasgram (POWERGRID) 400kV S/c line with HTLS conductor	400kV S/c		
E	**DVC (to be implemented by DVC)**			
I	**Gola-B**	400/220/132kV 2x500MVA + 2x200MVA	DVC has decided for implementation of the projects concerned utilizing own resources instead of TBCB mode. LILO augmentation of 400kV Ranchi–RTPS D/c Line (at Gola-B) is already sanctioned by CEA. However, after sincere consideration based on necessary Load flow analysis, it has been decided to construct Ramkanali-B as 220/132kV Substation with future provision for creation of LILO of RTPS–DSTPS 400kV D/c line at Ramkanali-B. The same is endorsed by CEA. Land identification work is under progress.	December 2028
a)	LILO of both circuits of Ranchi – RTPS 400kV D/c line at Gola-B	400kV D/c		
II	**Ramkanali-B**	400/220/132kV 2x500MVA + 3x200MVA (3rd ICT to be installed progressively with load growth)		
a)	LILO of both circuits of RTPS – DSTPS 400kV D/c line at Ramkanali-B	400kV D/c		

#*Status as recorded in 52nd CMETS-ER.*

Annexure-III

Space allocated at various ISTS substations to STUs for implementation of line bays under intra state system for their intra state lines

Sl. No.	Substation/ Location	Space for	Date of award of line and bays	Completion Schedule	Agreed in CMETS-ER
1.	Maithon (POWERGRID)	2 No. 220kV lines bays for implementation of Maithon (POWERGRID) – Asansol 220kV D/c line	Line bays to be constructed by PGCIL as a deposit work of WBSETCL on consultancy basis. The agreement between WBSETCL & PGCIL has been executed on 18-07-23. LOA by PGCIL for 2 nos 220KV Fdr bays at Maithon SS placed in Nov'23. LOA for 220 KV D/C line & 2 nos 220KV Fdr bays at Asansol 220KV SS has been placed by WBSETCL on 13.03.2024.	Mar 2026	7th
2.	Sitamarhi (New) (PMTL)	2 no. line bays for termination of Sitamarhi (New) (PMTL) – Sheohar (BSPTCL) 132kV D/c line	Awarded	Oct 2026	24th
3.	Chandauti (New) (PMTL)	2 no. line bays for termination of Chandauti (New) (PMTL) – Sherghati (BSPTCL) 132kV D/c line	Retendered and yet to be awarded	Jun 2027	24th
4.	Angul (POWERGRID)	2 no. line bays for termination of Angul (POWERGRID) – Khuntuni 765kV D/c line	Land Identified	2027-28	30th