



सत्यमेव जयते

भारत सरकार
Government of India
विद्युत् मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत् समिति
Eastern Regional Power Committee

सं /NO. ERPC/TCC&ERPC COMMITTEE/2026/ 1878

दिनांक/DATE: 07.01.2026

सेवा में/To,

सूची के अनुसार./ As per list

विषय: कलिम्पोंग (पश्चिम बंगाल) में दिनांक 16 दिसंबर और 17 दिसंबर 2025 को आयोजित 55वीं टीसीसी और ईआरपीसी बैठक का कार्यवृत्त - संदर्भ में।

Sub: Minutes of 55th TCC & ERPC Meeting held on 16th December & 17th December 2025 respectively at Kalimpong (West Bengal) - reg.

महोदय/ महोदया,
Sir/Madam,

कलिम्पोंग (पश्चिम बंगाल) में दिनांक 16.12.2025 (मंगलवार) और 17.12.2025 (बुधवार) को आयोजित 55वीं टीसीसी और ईआरपीसी बैठक का अनुमोदित कार्यवृत्त एतद्वारा जारी किया जा रहा है। यह आपकी सूचना और आवश्यक कार्रवाई के लिए है। यह ईआरपीसी की वेबसाइट (www.erpc.gov.in) पर भी उपलब्ध है। ईआरपीसी के निर्णयानुसार हरित पहल के तहत बैठक के कार्यवृत्त की हार्ड कॉपी का वितरण बंद कर दिया गया है। यह अध्यक्ष (ईआरपीसी) की स्वीकृति से जारी किया जाता है।

The approved minutes of 55th TCC & ERPC Meeting held on 16.12.2025 (Tuesday) & 17.12.2025(Wednesday) respectively at Kalimpong (West Bengal) are being issued herewith. This is for your kind information and necessary action. The same is also available at ERPC website (www.erpc.gov.in). As per decision of ERPC, distribution of hard copies of the minutes of the meeting has been discontinued as Go-Green initiative. This issues with the approval of Chairperson(ERPC).

संलग्न: उपरोक्त
Encl: As above

भवदीय / Yours faithfully

एन. एस. मंडल
07.01.2026

(एन. एस. मंडल) / (N. S. Mondal)
(सदस्य सचिव) / (Member Secretary)



सत्यमेव जयते

GOVERNMENT OF INDIA
MINISTRY OF POWER
Eastern Regional Power Committee

MINUTES
OF
55th TCC & ERPC MEETING

Date: 16.12.2025 & 17.12.2025

Time: 10:00 Hrs

Kalimpong, West Bengal

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EASTERN REGIONAL POWER COMMITTEE
MINUTES OF THE 55th TCC & ERPC MEETING

Date: 16th & 17th Dec 2025.

Place: Kalimpong, West Bengal

- ❖ Meeting was convened physically at Mayfair Himalayan Resort, Kalimpong
- ❖ List of participants is attached at **Annexure-A**.
- ❖ Host: IndiGrid

TCC meeting (16.12.2025)

- ✦ **In Chair: Shri Ajay Kumar Pandey, Director (R&T), WBSEDCL**

Shri Sunil Namboodiripad, Chief Operating Officer, IndiGrid, welcomed all Members of the Technical Coordination Committee and other participants and expressed gratitude to ERPC for giving IndiGrid the opportunity to host the meeting at Kalimpong. He conveyed his best wishes for fruitful deliberations and a pleasant stay for the delegates. He briefly recalled IndiGrid's long association with the Eastern Region power sector and reaffirmed its commitment towards reliable and secure operation of the Eastern Regional and National Grid. He also highlighted IndiGrid's transmission, renewable energy and battery storage assets, adoption of advanced technologies for operation and maintenance, and digital initiatives for asset management and system reliability.

Member Secretary, ERPC, thereafter welcomed the Chairperson, TCC, all TCC Members, representatives from State Load Despatch Centres, generating companies, transmission utilities, Independent Power Producers and other stakeholders. He emphasized the importance of active participation by all member utilities in technical forums such as TCC, OCC, PCC, TeST etc. for timely resolution of operational and planning issues. He highlighted emerging challenges in grid operation under high renewable energy penetration, particularly with respect to frequency control, ramping requirements and system security. He stressed the need for balanced development of renewable resources, including distributed generation, rooftop solar with battery storage and regional diversification, so as to minimize system costs and operational constraints. He thanked IndiGrid for hosting the meeting and expressed confidence that the deliberations would yield constructive outcomes.

Shri Ajay Kumar Pandey, Director (R&T), WBSEDCL and Chairperson, TCC, welcomed all Members and dignitaries and appreciated IndiGrid and ERPC for organizing the meeting. He highlighted the importance of collective deliberations in addressing emerging challenges of renewable energy integration. While supporting distributed generation, he cautioned about operational and commercial challenges from a load despatch and deviation settlement perspective in the absence of adequate control and coordination mechanisms. He concluded his remarks with the hope that the deliberation during the meeting shall be fruitful and requested Member Secretary, ERPC, to proceed with the agenda items.

ERPC meeting (17.12.2025)

✦ **In Chair: Shri Sabyasachi Roy, Director(Op), WBSETCL**

Member Secretary, ERPC, at the outset, warmly welcomed all ERPC Members, TCC Members, Special Invitees and other participants to the 55th ERPC Meeting and thanked them for attending the meeting. He informed the forum that the present Chairperson, ERPC, Shri Santanu Basu (IAS) (Principal Secretary, Power, Govt. of West Bengal), could not be physically present due to his sudden urgent official work and was expected to join the meeting through video conferencing. However, he had nominated Shri Sabyasachi Roy, Director (Operation), WBSETCL to chair the meeting on his behalf.

MS, ERPC also thanked entire team of Indigrd for making nice arrangements for the meeting & extended a special welcome to Shri Hemant Jain, Member (GO&D), CEA; Shri V. K. Singh, Member (Power System), CEA; Member Secretaries of WRPC and NERPC.

Member Secretary expressed that the valuable contribution rendered by Shri Sutradhar, during his tenure as ED, ERLDC may be placed on record as he is going to superannuate at the end of the month. He informed the forum that ERPC now comprises more than fifty members and expressed confidence that the deliberations of the meeting would be constructive and forward-looking.

Thereafter, Executive Director, ERLDC, presented a brief technical overview of system operation and renewable energy integration, outlining the prevailing system conditions, rising renewable energy penetration, and associated operational challenges such as renewable curtailment, ramping requirements, and frequency management. He also highlighted measures being undertaken, including minimum technical load operation of thermal units, expansion of AGC implementation, demand-side response initiatives, battery energy storage systems, and on-going research and development efforts, with reference to national and international experience.

Shri Bikash Deokota, Secretary (Power), Government of Sikkim assured full participation and cooperation of the Government of Sikkim in ERPC activities. He apprised the members regarding critical transmission constraints in the Gangtok–Nathula–Doklam corridor, recent outages faced in the region, and the transmission line strengthening proposals submitted to the Ministry of Power, and requested support from ERPC and POWERGRID for joint field inspection for the same. He also referred the issues related to free power and outstanding dues payable to West Bengal i.r.o Rammam HEP-I. In response to the free power issue, Shri A.K Pandey, Director(R&T) clarified that the agreement has no provisions of free power and in any case the project is in the state of West Bengal, the issue has resulted in piling up of huge outstandings over Rs 100 crores in the books of the discom vitiating the financial condition of the discom. He further pointed out that WBSEDCL has continued supplying power in terms of the agreement at virtually no cost but has in turn to purchase the same from the power market at much higher rates. He requested Sikkim to clear the dues at the earliest.

Shri Hemant Jain, Member (GO&D), CEA, welcomed all the participants and appreciated the efforts of ERPC and the host Indigrd for the comfortable arrangements. He highlighted the transition of the power sector from a shortage regime to one marked by high renewable energy penetration and the need for a robust, flexible and secure power system aligned with the national vision of Viksit Bharat 2047. He emphasized adherence to maintenance schedules, strengthening of system operation functions, protection and communication audits, cyber security preparedness, and the importance of demand-side response and cooperative resolution of techno-commercial issues.

Shri V.K. Singh, Member (Power System), CEA, highlighted the importance of intrastate transmission planning and preparation of Resource Adequacy plans by states. He appraised the forum about the status of RA plans in the Eastern Region and stressed the need for enhanced flexibility of thermal generation, particularly under conditions of increasing renewable energy penetration and assured continued technical guidance and support from CEA in this regard.

Shri Sabyasachi Roy, Director Operation, WBSETCL, the nominated chairperson of ERPC, requested all for their active participation in the meeting and directed MS to proceed with the agenda items.

With the permission of the Chair, the agenda of the meeting was thereafter taken up for discussion.

PART-A: Confirmation of Minutes

A1. Confirmation of Minutes of 54th TCC& ERPC Meeting held on 24th June 2025 at Chennai, Tamil Nadu and Special TCC & ERPC Joint Meeting Held on 11.08.2025

The minutes of 54th TCC & RPC meeting held on 23.06.2025 & 24.06.2025 at Chennai, Tamil Nadu were circulated vide letter no. ERPC/ TCC & ERPC COMMITTEE/2025/808 dated 18.07.2025. The minutes of 54th TCC Meeting held on 23.06.2025 was circulated vide letter dated 18.07.2025.

The minutes of Special TCC & ERPC Joint meeting held on 11.08.2025 through virtual mode was circulated vide letter no. ERPC/TCC&ERPC/2025/995 dated 12.08.2025.

Members may confirm the minutes of 54th TCC& ERPC meeting and Special TCC & ERPC Joint Meeting.

Deliberation in ERPC meeting

Members confirmed the minutes of 54th TCC& ERPC Meeting held on 23.06.2025 & 24.06.2025 and Special TCC& ERPC Meeting held on 11.08.2025. However, WBSEDCL submitted a gentle reminder regarding the issuance of a letter from the ERPC Secretariat to the Power Department, Government of Sikkim, concerning the outstanding dues payable to West Bengal by Sikkim, in accordance with the minutes recorded under Agenda No. 2.37 of the 54th TCC Meeting.

PART-B: ITEMS DISCUSSED in 55th TCC MEETING AND REFERRED TO ERPC

B.1: Items for follow up of decisions of previous TCC & ERPC Meeting

B1.1.: Urgent Review of Phase I Compliance for CEA Flexible Operation Regulations, 2023: ERPC

CEA has issued a gazette notification dated January 30, 2023, regarding flexible operation of coal-fired generating units.

As per CEA gazette notification extraordinary, part III, section 4, no. 61 (CG-DL-E-31012023-243299) , the coal-based power generating units shall have flexible operation capability with minimum power level of 55%. This capability includes a ramp rate of 2% between 55%-70% and a ramp rate of 3% above 70%. This capability was mandated within one year of the notification, i.e., by Jan 2024. Further, the regulation mandates that generating units not capable of achieving a minimum power level of 40% shall achieve the same as per the phasing plan (Attached as **Annexure B.2.1.a**).

It may be noted that CEA's flexible operation regulations were notified after successful pilot

test/study conducted across the country in association with international partners and BHEL. In this regard, it is pertinent to mention that 91 Units of total installed Capacity 51,080 MW in aggregate of various thermal power plants have been notified under Phase I (July 2024 – June 2026) for operation at 40% MTL (Minimum Technical Load). These units are required to carry out the necessary retrofitting/modifications as recommended by the respective OEMs so as to be fully prepared for sustained operation at 40% MTL by June 2026 , as mandated under the provisions of the aforesaid Regulations.

It may also be noted that successful and sustained operation at 40% MTL with Indian coal has been demonstrated by other generating utilities (Under Pilot Phase) such as West Bengal Power Development Corporation Limited (WBPDCL) at Sagardighi Unit-8⁵ and Damodar Valley Corporation (DVC) at Mejia Unit-8, following suitable retrofits as advised by the OEMs.

Further, in order to compensate the losses on account of flexible operation, CERC has already incorporated most of the recommendations of CEA's compensation methodology such as for additional Capex, oil consumption, additional auxiliary power consumption, and heat rate degradation.

Therefore, all generating utilities are requested to complete the retrofit, control system tuning, trial runs etc. of all units under Phase I by June 2026 in consultation with the OEM positively.

It is also requested to furnish the progress and updates (as per attached format) of First Phase units by the end of November 2025 and thereafter every month.

DVC & IBEUL may update. Members may discuss.

Deliberation in TCC meeting

- *MS, ERPC informed the forum about the requirement of implementing 40% Minimum Technical Load (MTL) in thermal power plants in line with CEA directives, to cater to increased Renewable Energy (RE) penetration and to ensure stable and reliable grid operation.*
- *He highlighted that the following Eastern Region thermal generating units are required to complete continuous operation at 40% MTL by June 2026, as per CEA directives:*
 - *Bokaro TPS Unit-1 (500 MW)*
 - *RTPS Unit-2 (600 MW)*
 - *IBEUL Unit-1 (350 MW)*
- *DVC apprised that all necessary retrofitting works and other process modifications required for 40% MTL operation have been taken up i.r.o. above two identified units of DVC.*
- *Further, DVC informed that RTPS Unit-2, being a Chinese make unit, is facing challenges due to non-availability of OEM support, and hence the required tuning for flexible operation has not yet been undertaken. However, Mejia Unit-7 has been successfully demonstrated 40% MTL test run for a short duration. DVC therefore requested the forum to consider Mejia Unit-7 as a substitute for RTPS Unit-2 to meet CEA flexible operation requirements.*

- *IBEUL informed that both its units are capable of operating at 44% MTL, and 24-hour trial operation has already been successfully conducted to demonstrate its readiness. However, for stable continuous operation at 40% MTL, further combustion optimization would be required.*
- *NTPC informed that all its thermal units are presently capable of smooth operation at 55% MTL. However, achieving further reduction to 40% MTL would require technical & operational modifications and the constraints faced by Generators for sustainable operation at 40% MTL has been communicated to CEA.*
- *JITPL updated that all its units can operate at 55% MTL. For enhanced flexibility, boiler-side modifications, including combustion process optimization and C&I retuning, would be required.*

TCC Decision

- *TCC advised DVC to explore possibilities for the implementation of 40% MTL at the earliest & Technical constraints faced during necessary system modification may be shared with CEA.*
- *TCC acknowledged the operational difficulties faced by the thermal power plants in implementing the mandated flexibility. It was opined that the issue should be flagged to CEA, with a request to reconsider continuous flexible operation and achievement of 40% MTL.*
- *The matter was referred to ERPC for further deliberation and guidance.*

Deliberation in ERPC meeting

DVC stated that maintaining 40% load on a continuous basis is difficult due to poor coal quality, particularly from BCCL, which has low volatile matter and contains extraneous material.

- *DVC further highlighted that testing & subsequent sustained operation at 40% technical minimum for other 500 MW units shall be pursued jointly with other major generators, OEMs etc.*
- *It was also discussed that some states have not yet implemented the 55% technical minimum norm for their respective generating units. DVC proposed that compliance with the 55% norm should be implemented on pan India basis before moving to the 40% technical minimum.*

Member(GO&D), CEA suggested that MS ERPC may be authorized to intimate the issues faced by ER Generators in implementing the 40 % MTL to CEA on behalf of ER states.

ERPC Decision:

ERPC opined that the necessary compensation mechanism may be formulated at the earliest & the utilities/Gencos which are capable of running at desired 40% MTL may come forward to contribute voluntarily for supporting the Grid amid increasing RE penetration.

ERPC advised all thermal generating stations to intimate their preparedness as well as technical difficulties, if any in achieving 40 % MTL to ERPC Secretariat. ERPC Secretariat would subsequently forward the issues to CEA & also flag the issue of supplying superior

quality of coal to the thermal units earmarked for operating at 40% MTL.

B1.2.: Bus split operationalization at NTPC Kahalgaon: ERPC

As decided in 219th OCC Meeting, a committee comprising of members from ERPC and ERLDC visited NTPC Kahalgaon on 17-10-2024 to assess the status of Bus splitting at 400kV level and way forward for operationalization of 400 KV Bus sectionalizer.

Following works need to be done to complete the installation of ICT 3 & 4:

1. Determination of underground cable conduit path for 400/132 kV ICT-3, 4 and 5 allocated for stage 2 supply.
2. Excavating the existing cable and relaying from Stage-1 132kV to New Stage-2 132kV switchyard, where ICT 3 & 4 will be connected.
3. Laying of additional 22.8 ckt. km control cable for STs.
4. Jumpering of ICTs in 132kV & 400kV level.
5. Bay equipment testing.

In 54th TCC meeting:

As the issue is long pending, TCC sought a firm timeline from NTPC for its completion.

- NTPC informed that the delay was caused by the intermittent rain and failure of a 132 kV power cable.
- He updated that to expedite the process, NTPC approached Bihar for providing the cable jointing kit. Bihar agreed to supply the required kit within a week and accordingly, the work is expected to be completed by August 2025.
- TCC advised NTPC to strictly adhere to the timeline and implement the bus splitting scheme at Kahalgaon within Aug-2025.

In 229th OCC Meeting,

NTPC informed that 132 kV cable joining kit has been received from BSPTCL and as per the present work progress, KSTPP ICT 3 charging will be done by 15.08.2025.

- The expected bus splitting operationalization was expected to be completed by Oct, 2025. NTPC may update. Members may discuss.

Deliberations in TCC meeting

NTPC informed the forum that, as per the current progress of works, idle charging of ICT-3 and ICT-4 is expected to be completed by December 2025, and bus splitting at NTPC Kahalgaon is tentatively scheduled for completion by April 2026.

TCC Decision

1. *TCC took serious note of the inordinate delay in implementation of the bus splitting operational scheme at NTPC Kahalgaon, which is critical for reduction of fault level at Kahalgaon.*
2. *TCC advised NTPC to:*
 - *Share weekly progress reports with ERPC and ERLDC, and*
 - *Expedite the bus splitting works to ensure completion strictly as per the submitted timeline.*

3. The matter was referred to ERPC for further deliberation and further guidance.

Deliberation in ERPC meeting

ERPC advised that a letter may be sent to CMD, NTPC on this subject from Chairperson, ERPC.

B1.3.: Additional Items for follow up

SI No	Issues	Decision taken in ERPC
1	<p>Sharing AMR system application web client access with Utilities-pilot testing / roll out for WBSETCL Utility: POWERGRID ER- II</p>	<p>In 54th TCC meeting, PowerGrid apprised that AMR network of ER has been successfully updated to layer3/layer 4 and project has gone live on 18.06.2025.</p> <p>It was further informed that pilot testing of AMR data sharing for 59 meters in WB control area shall be carried out and subsequently the same shall be done for other state SLDCs as well.</p> <p>The total cost of the completion of this project is Rs. 1,03,07,428/- the excluding taxes and including HW/SW and application development and it was further proposed that PowerGrid should charge 15% consultancy charges post completion of the project.</p> <p>TCC concurred the proposal of Powergrid with the cost implications of 1,03,07,428 without taxes and consultation charges of 15% will be implied after completion.</p> <p>TCC directed the Powergrid to complete the Pilot testing for WB system.</p> <p>POWERGRID may update the current status.</p> <p><u>Deliberations in TCC meeting</u></p> <p><i>PGCIL updated that pilot testing for WB system has been implemented on Nov,2025.</i></p> <p>➤ <i>SLDC, Odisha apprised that the same AMR system may be implemented in Odisha network for seamless data visibility at their end.</i></p> <p><u>TCC Decision</u></p> <p><i>TCC applauded Powergrid for carrying out pilot testing of AMR data sharing successfully.</i></p> <p><i>TCC also advised Powergrid to carry out a joint meeting involving all the SLDCs to address the additional requirements of States and implement the same in other SLDCs of ER for seamless data visibility and aiding in operational flexibility of State networks.</i></p> <p><u>Deliberation in ERPC meeting</u></p> <p><i>Powergrid intimated that the template which has been</i></p>

		<p><i>implemented for West Bengal will be implemented for other states.</i></p> <p><i>Director(SLDC), Odisha suggested that MVAR flow information in the AMR data is also important which may be incorporated in future.</i></p> <p><i>Member(GO&D) suggested that the experience gained from the pilot testing can also be shared in other regions where the AMR is yet to be implemented.</i></p> <p>ERPC Decision:</p> <p><i>Powergrid was advised to complete implementation of the AMR data sharing system for other states by end of March'26 with the template which has been implemented in West Bengal.</i></p> <p><i>All the SLDCs were advised to intimate additional requirements to ERPC secretariat.</i></p>
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	<p>Update on Reconductoring of ISTS lines under Eastern Region Expansion Scheme-44</p>	<p>In 230th OCC meeting, PowerGrid informed that the reconductoring of Chuka Transmission System involves significant financial implications. As such, the Letter of Award (LOA) will be issued after the approval of the POWERGRID Board, the meeting for which is tentatively scheduled for the end of August 2025. Additionally, PowerGrid apprised that once the LOA is awarded, the reconductoring work of the Malda–Gazole section (18 km) will commence. The work is planned to be completed by the end of the upcoming winter, as the line is heavily loaded during the summer season.</p> <p><u>Deliberation in TCC meeting</u></p> <p><i>PGCIL apprised the forum that as per the earlier commitments in 230th OCC meeting reconductoring of 220KV Malda–Gazole section (18 km) will be commenced on priority. However, LOA is not awarded yet.</i></p> <p><i>WBSLDC submitted the following,</i></p> <ul style="list-style-type: none"> ➤ <i>The shutdown of the said line is only can be allowed during winter period since no progress has been made by PGCIL in this winter so the reconductoring work is now delayed by another one year which will have a serious impact on catering the increased load of WB leading to overloading of these lines.</i> ➤ <i>As a mitigating measure, Bus split operation at Gazole is required for limiting the line loading.</i> <p><u>TCC Decision</u></p> <p><i>TCC critically noted the inordinate delay caused in carrying out the HTLS reconductoring of 220KV Malda–Gazole D/C which</i></p>
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		<p><i>is very much essential to aid in operational flexibility WB.</i></p> <p><i>TCC also advised Powergrid to explore all the possibilities for diverting HTLS conductors from other projects on loan basis so that Reconductoring can be completed at the earliest and after LOA has been awarded the HTLS conductor may be returned to the concerned utility.</i></p> <ul style="list-style-type: none"> ➤ <i>TCC also opined that PowerGrid may take the help of WB for procurement of the required HTLS reconductor through a separate tender.</i> ➤ <i>The matter was referred to ERPC for further Deliberation</i> <p><u>Deliberation in ERPC meeting</u></p> <p><i>Powegrid stated that LoA will be placed by Jan'26.</i></p> <p><i>ERPC advised Powergrid to complete the reconductoring work before onset of coming summer.</i></p>
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B.2: Utilization of 7th ICT and of Bay-217 [for Baruipur 220 KV SS at Subhasgram 400 KV SS [PG]: WBSETCL

As per discussions held in the 54th ERPC meeting in June-2025 [SI-B-1.4 of the MoM] regarding utilization of 7th ICT at Subhasgram 400 KV SS [PGCIL], it was recorded as follows:

“... Considering, the load profile already detailed above the methodology of consideration of 500MVA ICT-7 (Interim) to be considered as a permanent asset under RTM”.

It was also recorded i.r.o. Baruipur Bay that *“...The status quo of bay 217 will be maintained for future use by WBSETCL”.* The same were agreed by the representatives of all the eastern regional entities, ERPC, ERLDC and CTUIL present in the meeting.

In the 48th CMETS meeting held on 30-10-2025, CTU pointed out that approval of CEA will be required for finalization of seven nos. of ICT (2760 MVA) at Subhasgram 400 KV SS[PG] and subsequent utilization of the bay by WBSETCL. Concerned entities requested CTU for necessary action at the earliest since the transportation and commissioning works for 6th ICT were in progress and scheduled to be commissioned by December-2025.

In line with the perusal of CTU, one meeting was convened by CEA in this regard on 04-12-2025. In the meeting CEA stated to carry out the work of installation of 6th ICT as per schedule and opined that the issue of installed capacity beyond 2500 MVA to be discussed on 09-12-2025 with Resource Adequacy Plan for West Bengal up-to Year 2034-35 which is under preparation.

Accordingly, the matter was further discussed and studied at CEA on 09-12-2025 jointly in presence of CEA, CTU and WBSETCL. CEA opined that the combination with 2760 MVA of installed ICT capacity at Subhasgram 400 KV SS[PG] may be continued as per requirement on temporary basis.

Deliberation in TCC meeting

Powergrid informed that the issue of utilization of Bay-217 at Baruipur will be taken up in the coming CEMTES meeting and detailed scheme for this bay-217 is not yet prepared.

- PGCIL further updated that 6th ICT commissioning is under process and it's expected to be completed by January 2026.
- CTU informed that as per the latest meeting held with CEA , It was deliberated that 7th ICT at Subhasgram has been commissioned as an interim measure and until it's permanent status is established, then Bay-217 utilization at Baruipur can't be taken into consideration.
- In response to CTU, WBSETCL highlighted that in 54th ERPC meeting it was deliberated that 7th ICT(Interim) would be considered as permanent asset under RTM and also status quo of bay 217 will be maintained for future use by WBSETCL” where the concerned agencies were present.
- WBSLDC informed that 7th ICT at Subhasgram is very essential considering it's criticality in ensuring Reliable and quality power to Capital city of WB and with 6 nos of ICT in service, it will not even meet N criteria during 2027 summer peak. Moreover with 6 numbers of ICTs in service condition, N-1 criteria will not be there during the forthcoming summer 2026.
- WBSLDC further apprised that with prevailing status as stands since sacrificing the 220 kV 2nd bay / circuit between Subhasgram(PG)-Baruipur, there is no (n-1) contingency in respect of 220 kV Subhasgram-Subhasgram(PG) circuits and a single trip can invite total power interruption in South 24 Parganas in coming summer. This can be handled only on commissioning of 2nd bay to establish the 3rd circuit between Subhasgram(PG)-Subhasgram.
- MS, ERPC opined that there is a SPS scheme under operation at Subhasgram to limit the overloading of the ICTs during peak summer period, which signifies the requirement of 7th ICT as a permanent requirement.

TCC Decision

TCC acknowledged the need of 7th ICT at Subhasgram to meet the growing demand of Kolkata and any deviation with the existing status quo will severely affect the power scenario in WB.

- TCC took the note of WBSLDC regarding in-service SPS scheme at Subhasgram.
- TCC opined that operational and technical requirements of this ICT need to be highlighted before CEA for the consideration towards putting 7th ICT with permanent status in lieu of present temporary status & subsequently clearance may please be given by CEA towards allocating bay number 217 at Subhasgram (PG) for 220 kV Baruipur circuit II, which was sacrificed earlier by WBSETCL for commissioning of 7th ICT as an interim arrangement
- TCC referred the matter to ERPC for further deliberation and guidance.

Deliberation in ERPC meeting

Member(GO&D), CEA opined that the installation of 7th ICT at Subhasgram may be considered as a special case against limits defined in planning criteria and the issue may be dealt with accordingly

Member(PS), CEA informed that Resource Adequacy plan for West Bengal is going to be finalized by CEA shortly. Based on the RA plan, the requirement of 7th ICT at Subhasgram will be decided. However, he stated that the technical difficulties in transportation of the ICTs to Subhasgram is well noted and the factor would be considered before taking final decision

of the requirement of the 7th ICT. (Future transportation of such ICT's are hugely difficult as experienced earlier).

B.3: Construction of Nawada–Durgapur–Jeerat (New) 765kV corridor for improve reliability in the Eastern Region and improve reliability of power supply to Kolkata: CTU

A 765kV ring was planned in ER from Ranchi (New) – Medinipur – Jeerat (New) – Gokarna – Banka – Gaya and Ranchi – Gaya through 400kV D/c (Quad) line. Ranchi (New) – Medinipur–Jeerat (New) 765kV D/c line has already been implemented. In order to 765kV ring was planned in ER from Ranchi (New) – Medinipur – Jeerat (New) – Gokarna – Banka – Gaya and Ranchi – Gaya through 400kV D/c (Quad) line. Ranchi (New) – Medinipur – Jeerat (New) 765kV D/c line has already been implemented. In order to improve reliability in the Eastern Region and improve reliability of power supply to Kolkata area, need for implementation of balance portion of the ring viz. Jeerat (New) – Gokarna – Banka – Gaya came up as per operational feedback.

The matter was discussed in the joint study meeting held on 25-09-2025 wherein to reduce the number of 765kV substations and to reduce line length, a new corridor option viz. Nawada – Durgapur – Jeerat (New) was explored. The Nawada S/s along with Nawada – Durgapur – Jeerat (New) 765kV corridor was agreed to be taken up for strengthening 765kV interconnection to Kolkata area. Further, for the drawal requirement of BSPTCL, 765/400/220kV ICTs shall also be implemented at Nawada (ISTS). BSPTCL shall implement Nawada – Guraru – Kaler 220kV D/c line for drawal of power from ISTS. For seamless integration of Nawada into the ISTS grid, LILO of Gaya – Balia 765kV D/c line has also been proposed.

Accordingly, the “ERES-47: Nawada – Durgapur – Jeerat (New) 765kV corridor” scheme was

agreed to be implemented as a strengthening scheme in the 47th CMETS-ER held on 29-09-2025. It was also observed that this link can also be utilized for grant of 1200MW ISTS Connectivity to NTPC for its Nabinagar STPP Stage-II generation plant (3x800MW).

The final scope of works was discussed and agreed in 48th CMETS-ER held on 30-10-2025 to improve reliability in the Eastern Region and improve reliability of power supply to Kolkata.

Detailed scope of works is enclosed at **Annexure B.2.5**

- i. Establishment of Nawada (ISTS) 765/400/220kV S/s with 2x1500MVA+2x500MVA ICTs
- ii. LILO of Gaya – Balia 765kV S/c line at Nawada (ISTS) S/s – (Loop in 82km and Loop out 82km)
- iii. Establishment of 765kV level in GIS at existing Durgapur (POWERGRID) S/s along with installation of 765/400kV, 2x1500MVA ICTs in 400kV Section-B (the section having 400/220kV ICTs)
- iv. Nawada (ISTS) – Durgapur (POWERGRID) 765kV D/c line along with 1x240MVA (3x80MVA 1-Ph) switchable line reactor in both ckts at both ends – about 258km

- v. Durgapur (POWERGRID) – Jeerat (New) 765kV D/c line along with 1x240MVar (3x80MVar 1-Ph) switchable line reactor in both ckts at Jeerat (New) end – about 152km
- vi. Extension at Jeerat (New) 765/400kV S/s **Estimated Cost of the project: INR**

5676.25 Cr.

CTU may update. Members may discuss.

Deliberation in TCC meeting

CTU informed that the scheme includes establishment of New S/s at Nawada, Upgradation of Durgapur S/s and Nawada – Durgapur – Jeerat (New) 765kV D/c line alongwith LILO of Gaya – Balia 765kV S/c line at Nawada & the scheme has been evolved in consultation with stakeholders after detailed deliberations in 46th, 47th and 48th CMETS-ER.

- *CTU also informed that the said scheme will be utilized for grant of 1200MW ISTS Connectivity to NTPC for its Nabinagar STPP Stage-II generation plant (3x800MW).*
- *West Bengal highlighted the insufficient loading observed in 765/400 kV ICTs during joint study with the CTU.*
- *WBSETCL informed that considering the increased overloading of the existing 400KV lines, more focus needs to be given for construction of additional 400kV lines for evacuation of 765 kV corridor transmitted power as far as CTU planning criteria is concerned which will further ensure better utilization of the proposed 765KV corridor and ensure reliable supply to ER.*
- *MS, ERPC informed that as this link would also receive power from Northern Region through Asana – Nawada 765kV D/c line being planned under “Transmission scheme for evacuation of power as part of Rajasthan REZ Ph-IV (Part-6: 6GW) (Bikaner Complex) (Bikaner V: 6GW)” Scheme, the entire ERES-47 scheme may be considered as “National Component - RE”.*
- *WBSETCL further suggested the followings:*
 1. *Future provision for 765/400 KV ICTs along with at least 2 numbers of additional 400 kV bays may be kept at Durgapur S/s.*
 2. *At Durgapur 765 kV level, only switching arrangements along with reactive compensation may be made at present. The requirement of ICT & downstream bays may be planned in future based on the system study & load growth.*
- *PGCIL submitted that Durgapur S/S operated by them is under lease and as per the agreement further sub-lease or selling of land to other Utilities is not legally permissible. Hence construction of Bay and commissioning of other substation equipment will be carried out by PowerGrid by RTM mode to avoid any complicity and same may be highlighted at NCT.*
- *CTU reiterated that additional study without Durgapur ICTs shall be discussed in a separate meeting with CEA, Grid-India, WBSETCL and the final scheme (with or without ICT at Durgapur) shall be suitably forwarded to the NCT, based on the decision of the above meeting. Further, the views of ERPC regarding categorization of the scheme as National Component - RE, shall be forwarded to NCT for consideration.*

TCC Decision

TCC referred the matter to ERPC for necessary guidance and discussion.

Deliberation in ERPC meeting

ERPC in-principally agreed with the proposal of CTUIL.

❖ *Further, ERPC suggested the following:*

➤ *The present scheme of ERES-47 may be considered in tandem with the RE evacuation scheme for Rajasthan REZ PH-IV since it is anticipated that RE power from Northern states shall flow upto the load centers of West Bengal during solar hours through this corridor and it may be treated under comprehensive scheme of evacuation of RE power and the comprehensive scheme may be treated as National Component - RE, may be forwarded to NCT for consideration.*

➤ *The detailed study in this regard as deliberated in TCC may be completed at the earliest and the same may be communicated to ERPC.*

➤ *ERPC is in agreement with the submission of Powergrid for any construction of the substation bay & equipment at Durgapur(PG) S/s under RTM since the land belongs to SAIL and given to Powergrid on lease mode. This may be highlighted at NCT Meeting.*

B.4: Transmission scheme for Rajasthan REZ Ph-IV(Part-6:6GW) (Bikaner Complex)

CTUIL vide email dated 08/10/2025 informed that a transmission scheme evolved for evacuation of 6GW RE power from Bikaner complex (Bikaner V PS) in Rajasthan to various load centres of Northern region. The scheme details are enclosed in Annexure-A. The scheme involves LILO of both circuits of 400kV Varanasi – Biharsharif D/c line at Asana S/s and LILO of both circuits of 400kV Balia – Patna D/c line at Asana S/s. The scheme was recommended in 40th CMETS-NR meeting held on 12.09.25 & 47th CMETS-ER meeting held on 29.09.25.

The scheme was discussed in 232nd OCC Meeting of ER held on 24.10.2025 and

➤ OCC suggested that if the scheme is extended to Gaya/Banka S/S, it would be of greater benefit to ER for further transmission of RE power towards the eastern part of ER grid. Also, ER may be benefited commercially as the project falls under the national component.

➤ OCC urged CTU to consider the possibility of implementing the suggested modification so that ER can be benefited.

Subsequently the scheme was discussed in 56th TCC & 81st NRPC Meeting held on 30-31st Oct'25, wherein based on observation of ERPC and Grid-India, NRPC Forum advised that a separate meeting under Member (Power System), CEA may be convened within one month by CTU with concerned stakeholders and outcome of the meeting shall be discussed at NRPC/ERPC forum of respective region before taking into it to NCT meeting. Further CTU and STU may do necessary studies & take up corrective measures in matching timeframe of the proposed scheme to address the observation raised by

GRIDINDIA.

Deliberation in TCC Meeting:

CTU gave a brief presentation elaborating the power scheme evolved for evacuation of 6GW RE power from Bikaner complex (Bikaner V PS) in Rajasthan to various load centers of Northern region.

Further, CTU updated that they have reviewed the studies for additional interconnection to ER. In the revised study, LILO of both circuits of 400 kV Balia-Patna D/c line at Asana S/s was not considered and in place of above LILO arrangement, a direct interconnection between Asana & Nawada S/s through 765kV D/c line is considered.

CTU added that a separate meeting under Member(PS), CEA was held on 27/11/2025 where MS, ERPC in principle agreed for scheme after above modification.

WBSETCL agreed on the point of extending the corridor up to New Jeerat if the project is treated as national component with conditions given in agenda number 2.3.

TCC Decision:

TCC opined as ER states does not have much RE potential, the proposed scheme may be extended further so that other ER states will benefit from the scheme.

- *TCC suggested that the interconnection between Asana & Nawada S/s through 765kV D/c line may further be extended up to Durgapur & New Jeerat.*
- *The matter was referred to ERPC for further deliberation.*

Deliberation in ERPC meeting

CTU informed that upon review of the scheme as deliberated in the NRPC meeting held on 31-10-2025, LILO of Patna – Ballia 400kV D/c (Quad) line at Asana S/s has been modified to Asana – Nawada 765kV D/c line.

- *Members opined that this proposal would also help ER states in import of RE power from Rajasthan complex and shall be treated as “National Component - RE”.*
- *CTU stated that revised scheme shall be forwarded to NCT for subsequent approval.*

ERPC Decision

ERPC agreed with the revised scheme as deliberated in the NRPC meeting held on 31.10.2025 & shall be treated as “National Component – RE”.

ERPC further suggested that ERES-47 shall be considered simultaneously for evacuation of RE power upto New-Jeerat.

B.5: Establishment of proposed TCF-II 220/132/33 KV SS by WBSETCL.

Proposal for TCF-II 220/132 KV SS is an Intra-State sub-station with ISTS connectivity [D/C LILO of Siliguri PG-Kishanganj 220 KV D/C Line with HTLS conductor proposed]. The sub-station has been considered for meeting the growing load demand in and around Ghoshpukur and TCF area as projected by WBSEDCL which includes increasing demand of Dinajpur(N) and Darjeeling district of West Bengal.

The proposal had already been discussed at CMETS-ER level for last few months [since May-

2025] considering different scenarios and multiple operational aspects.

The latest PSSE studies were submitted prior to the last 48th CMETS-ER meeting held on 30-10-2025. It was found as per the study that loading of Binaguri PG - Siliguri PG under N-1 condition is 393 MW [considering 1500 MW setting for APD-Agra DC Link as suggested by Grid India] which is within the 90% of thermal limit of the line [considering 450 MW rating of HTLS conductor].

Observations of Grid India has been obtained on 14-11-2025. It is understood that Grid India has further considered 1000 MW setting for APD-Agra DC Link instead of 1500 MW during N-1 condition of peak load scenario creating additional contingency over and above N-1 condition.

However, loading of one circuit of Binaguri PG - Siliguri PG even under this additionally contingent condition is found to be 426 MW which is also well within the thermal limit of the line [considering 450 MW rating of HTLS conductor] as per CI-4.4.2 of CEA's Manual on Transmission Planning Criteria-2023. It is also noteworthy that this quantum of power will flow for a limited period of time only satisfying the special conditions pointed out by Grid India.

In the last CMETS-ER meeting CTU proposed to pose the proposal before CEA to discuss with Resource Adequacy Plan for West Bengal by the Year 2034-35 which is in progress and may take time. Considering the immediate requirement, WBSETCL requested CTU to resolve the issue at CMETS-ER level.

WBSETCL may update. Members may discuss.

Deliberation in TCC meeting

WBSETCL informed that as per the system study conducted by them, there is no N-1 violation in Binaguri PG - Siliguri PG in 5 years resource adequacy plan.

➤ *CTU updated that the matter is presently under consideration of CEA and as per the resource adequacy plan of CEA keeping in view of the surge in demand of WB in near future it would be prudent to go for 400KV substation in TCF-II instead of 220KV substation proposed by WBSETCL.*

➤ *In response WBSLDC submitted that there is a urgent requirement of TCF-II 220/132/33 KV SS since the proposed scheme is to cater the load 100-120 MW loading for the forthcoming Ghoshpukur 132 kV sub-station which is urgently needed by the DISCOM to accommodate "Data Centre Load". This was further mentioned that as per policy of the Central Govt to encourage Data Centre establishment, this initiative is in line with the facilitation of establishing data center as desired by CEA through online meeting in 2nd December 2025.*

TCC Decision

TCC opined that in order to meet the additional load requirement of 120MW including data center load in immediate future, it would be prudent to go for 220/132/33 KV SS instead of 400kV system as of now for early implementation of the proposed scheme and the 400 kV scheme may be considered subsequently.

➤ *TCC referred the matter to ERPC for further deliberation.*

Deliberation in ERPC meeting

Member (PS), CEA opined that the requirement of the TCF-II ss would be finalized based on resource adequacy study of West Bengal.

➤ ERPC emphasized the requirement of 220/132/33 KV SS at TCF-II by LILO of 220 kV Siliguri-Kishanganj D/C line to meet the additional load requirement of 120 MW under yearly rolling plan and requested CEA to consider the above requirement.

B.6: Proposal regarding procurement of capital spares for reliable operation of DVC Grid: DVC

DVC Grid consists of 5 nos. 400kV Powerhouse Switchyards, 14 nos. of 220kV Sub-stations, 3 nos. of 220kV Powerhouse Switchyards, 24 nos. of 132kV Sub-stations, 2 nos. of 132kV Hydel Switchyards & 1 no. 33kV Hydel Switchyards and 483 ckm of 400kV, 3029 ckm of 220kV, 3765 ckm of 132kV & 1841 ckm of 33kV transmission lines spread across the state of Jharkhand and West Bengal.

1. Evacuation of generation from DVC's Power Houses/RE Plants and transmission & distribution of power to DVC's internal system is done utilizing this grid. The grid supplies 3273 MVA of power to DVC's firm consumers across DVC Command Area in the state of Jharkhand and West Bengal. In addition, power of 1015 MW is fed to PPA beneficiaries like Tata Steel, Railways, IPCL, JBVNL and JUSCO in DVC Command Area.

2. At present, very less or nil capital spares are available with DVC.

3. In order to minimize down time in the event of equipment failure, an adequate number of capital spares, as per industry norms/standards, are to be maintained with DVC.

4. The following tables depict the exiting population of equipment viz a viz proposed quantity of capital spares:

A. ICTs, ATRs & PTRs:

Equipment Details	Existing population in DVC	Proposed quantity of Capital Spares to be maintained
500/315MVA, 400/220/33kV ICT	10	1 no. 500 MVA ICT
200/160/150 MVA, 220/132kV ATR	27	2 nos. 200 MVA ATR
100/80/50 MVA, 220/33kV PTR	26	2 nos. 100/80 MVA PTR
80/50 MVA, 132/33kV PTR	59	4 nos. 80/50 MVA PTR
31.5 MVA & below, 132/33kV PTR	7	1 no. 31.5 MVA PTR

Note: - Spares to be strategically located across DVC command area for ease of logistics and to minimize downtime in the event of failure.

B. Shunt Reactors:

Equipment Details	Existing population in DVC	Proposed quantity of Capital Spares to be maintained
50 MVA, 400 kV Reactor	6	1 no. 50 MVA, 400 kV

C. 220kV & 132kV Circuit Breakers:

Equipment Details	Existing population in DVC	Proposed quantity as Capital Spares (5%)
220kV Circuit Breakers	147	7
132kV Circuit Breakers	376	19

5. The **capital spares** as mentioned above are listed below and placed for kind deliberation/consideration at ERPC(TCC) meeting:

Equipment	Total Quantity
500/315MVA, 400/220/33kV ICT	1
50 MVA, 400 kV Reactor	1
200/160/150 MVA, 220/132kV ATR	2
100/80/50 MVA, 220/33kV PTR	2
80/50 MVA, 132/33kV PTR	4
31.5 MVA & below, 132/33kV PTR	1
220kV Circuit Breakers	7
132kV Circuit Breakers	19

DVC may update. Members may Discuss.

Deliberations in the meeting

DVC highlighted the need to maintaining spare of capital equipment as highlighted in the above table in order to minimize down time in the event of equipment failure as per industry norms/standards.

TCC Decision

TCC principally agreed with the proposal of DVC with the following modifications

1. 220kV & 132kV Circuit Breakers:

Equipment Details	Existing population in DVC	Proposed quantity as Capital Spares
220kV Circuit Breakers	147	5
132kV Circuit Breakers	376	10

- *TCC also advised DVC that before placing the final order for procurement of spares present spare status shall be considered.*
- *TCC referred to ERPC for concurrence.*

Deliberation in ERPC meeting

ERPC concurred the proposal of DVC for spare requirement with the quantity as recommended by TCC.

B.7: URTDSM Phase-II Project (ISTS Portion) – Implementation through RTM route: POWERGRID

Background of URTDSM Phase-II project:

1. The WAMS system installed under URTDSM Phase-I project comprises of 1400+ PMUs and 32 Control centres. This project was implemented with 70% of the project cost as PSDF grant and 30% was through POWERGRID Equity (RTM for 30% portion and no tariff for 70% grant portion).
2. The URTDSM Phase-I project is proving its significance and usefulness to the Grid Operators for wide area monitoring of the Grid and Event Analysis. Further, the expanding Indian Power Grid with increased penetration of renewable energy sources and Govt of India’s plan to achieve 500GW RE power by 2030, needs Smart Grid tools to proactively monitor, manage, and operate the Grid.
3. The URTDSM Phase-I Control centres at SLDCs, RLDCs and NLDCs (32 No’s) are nearing their Operational life and are becoming technically obsolete. Hence to keep the WAMS URTDSM Control centres functional, the URTDSM Phase-II project which includes replacement of existing control centres, is to be implemented on priority. URTDSM Phase-II project also envisages advanced WAMS analytics for Oscillation monitoring, Disturbance analysis, inertia monitoring, measurement of RE generator(inverter) response, which shall enhance the Grid observability for efficient and safe operation of the Grid.
4. Brief BOQ Cost Estimate of URTDSM Phase-II ISTS portion is attached in **Annexure B.2.10**

Previous Deliberations for Approval of URTDSM Phase-II Project:

S No	NPC/RPC Meeting	Date of Meeting	Meeting Outcome	Remarks // Actions taken
i	13 th NPC Meeting	05.07.2023	“The DPR of URTDSM project phase-II in accordance with the recommendation of the committee may be prepared by the PowerGrid within three months. PSDF funding for URTDSM project phase-II may also be sought subsequently. RPCs were requested to provide full cooperation in preparation of DPR”	POWERGRID Prepared DPR for URTDSM Phase-II Project, which included 4000PMUs (new) and 34 control centres proposed with funding pattern of 70% PSDF grant and 30% POWERGRID equity in line with Phase-I. DPR with an estimate of Rs.3922 Crores, was submitted to NPC/CEA on 11.03.2024.

ii	14 th NPC Meeting	03.02.2024	“POWERGRID may revise the scope of DPR in line with above suggestions ((d) to (h)) and submit the DPR by March 2024”	POWERGRID presented Various options for optimisation and discussed with GRID-INDIA. These Options were presented to NPC on 30.05.2024 for further deliberations.
iii	Email from NPC reg PSDF	18.04.2024	“In accordance with the decision of the 22nd Monitoring Committee meeting, funding for the DPR regarding URTDSM project Phase II will not be provided through PSDF as of now. POWERGRID is hereby requested to explore alternative funding sources for URTDSM project Phase II ”.	Hence, POWERGRID proposed to implement the URTDSM Phase-II Project on RTM basis (70% debt and 30% equity) and approached the Constituents in all the five RPCs for concurrence of the RTM proposal.
iv	Various RPC meetings		SLDCs of all Regions have expressed in-principle technical acceptance for implementation of the URTDSM Phase-II Project, but the RTM proposal was not concurred by States due to funding constraints	The initial DPR prepared by POWERGRID was based on the sub-committee recommended philosophy of PMU placement. However, CEA was preparing a revised PMU placement philosophy to bring clarity in various regulation/guideline/recommendation. The new guidelines for unified philosophy of PMU placement in Indian Grid were published in March 2025, which will supersede all existing guidelines and sub-committee report etc.
v	15 th NPC Meeting	14.11.2024	“PowerGrid is to submit the revised proposal in consultation with	Accordingly, POWERGRID prepared DPR for URTDSM Phase-II ISTS portion (upgradation of control centres at NLDCs, RLDCs and installation of

			Grid India, only for the existing network after segregating the PMUs and control centres under ISTS and STUs system. The proposal may also be revised to optimized number of control centres and PMUs at ISTS & STUs system separately. The revised proposal for ISTS portion may be put up to the NCT for further consideration”.	new PMUs for Central Sector stations as per latest CEA guidelines) at an estimated cost of Rs. 1124 Crores & discussed the same in 16th NPC Phase-II project for ISTS portion comprises of control centres (7 nos.) of NLDC and RLDCs and PMUs at central sector stations (1070 nos.) Tentative cost and BOQ for STUs portion (Control centres of SLDCs across India and new PMUs for State sector substations) is also prepared by POWERGRID for further deliberations in NPC at a cost of Rs. 2550 Crores for 26 SLDC portion and 1210 PMUs
vi	16 th NPC	04.07.2025	The 16 th NPC recommended following actions: “URTDSM project phase-II proposal may be put up in RPC forum for further discussion” “The mode of implementation of the URTDSM project phase-II may be put up in upcoming NCT meeting for deliberation and approval”	Accordingly, POWERGRID is taking up the URTDSM Phase-II ISTS proposal for discussion in RPC Meetings. A brief on the URTDSM Phase-II Project ISTS portion along with Cost Estimate and BOQ are attached for kind reference
vii	52 nd TCC & 55 th SRPC Meeting	25.07.2025 & 26.07.2025	“SRPC approved the proposal for Unified Real time Dynamic State Measurement System (URTDSM) Phase-II Project with an estimated cost of Rs. 1122 Crores, for ISTS portion comprising of control centres (7 nos.) of NLDC and RLDCs and PMUs at central sector stations (1070 nos.) under RTM”	SRPC Approved

viii	56 th TCC & WRPC meeting	26.09.2025 & 27.09.2025	WRPC Members deliberated & agreed for the ISTS proposal	WRPC Approved
	56 th TCC & 81 st NRPC Meeting	30.10.2025 & 31.10.2025	<p>“TCC forum was of view that proposal for ISTS portion may be approved.</p> <p>“Forum technically agreed with the proposal for implementation of the URTDSM Phase-II Project (ISTS portion) on a pan-India basis, to be executed by POWERGRID under a cost-sharing mechanism via the 100% Regulated Tariff Mechanism (RTM) route, with a 70:30 Debt-Equity ratio, at a Detailed Project Report (DPR) cost of 1,124.00 crore”.</p>	NRPC Approved
x	30 th TCC & 30 th NERPC Meeting	13.11.2025 & 14.11.2025	<p>forum accorded technical concurrence for the Proposal.</p> <p>“After detailed deliberation RPC forum concurred for the same.”</p>	NERPC Approved
xi	229 th OCC Meeting of ERPC	25.07.2025	<p>“ERPC OCC Decision”</p> <p>OCC agreed with the proposal of POWERGRID regarding implementation of URTDSM Phase-II system.</p>	To be taken up in upcoming 55 th TCC & 55 th ERPC Meeting

POWERGRID Proposal for URTDSM Phase-II ISTS Portion:

Keeping in view of the above factors, “*it is proposed to take up URTDSM Phase-II Project (for*

ISTS portion) on pan India basis, with an estimated cost of Rs. 1111 Crores, for ISTS portion comprising of control centres (7 nos.) of NLDC and RLDCs and PMUs at central sector stations (1026 nos.) under RTM on cost sharing mechanism (100% RTM route with 70:30 Debt Equity ratio) to be implemented by POWERGRID". Upon Approval in all RPCs, POWERGRID will put up the proposal in NCT for final approval. POWERGRID may update.

Members may discuss.

Deliberations in TCC meeting

Powergrid informed that the proposed URTDSM phase-II has been approved in all other RPCs except ERPC.

TCC Decision

TCC agreed with the proposal of Powergrid and put it up for approval of ERPC.

TCC advised PowerGrid to share detail BOQ with all the ER stakeholders along with their place of installations.

Deliberation in ERPC meeting

Director(SLDC), Odisha submitted that they wish to use the WAMS analytics applications developed by IIT Bombay under the URTDSM project with customization as per their requirement on payment basis.

Power Dept Sikkim informed that they have additional requirements of PMUs for the intra-state portion.

ERPC Decision:

- ERPC concurred with the proposal of Powergrid for implementation of URTDSM phase-II through RTM mode.
- Powergrid was advised to look into the requirements of Odisha regarding use of WAMS analytics and extend necessary cooperation in this regard.
- The additional requirement of PMUs by Sikkim would be taken care by Powergrid under quantity variation clause.

B.8: Proposal for Installation of OPGW & associated communication systems on the existing lines of ISTS and STU: CTU

CEA has intimated vide letter dtd.22.05.2024 (attached at **Annexure-B.2.11.1**) that all the transmission lines of 110kV and above should have Optical Ground Wire (OPGW) along with necessary terminal equipment for speech transmission, line protection, and data channels. Further as per regulations & standards i.e. Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, CEA Technical Standards for Communication Systems (2020) and the Manual of Communication Planning in Power System Operation (2022), primary path for tele-protection shall be on point-to-point Optical Ground Wire and alternative path shall be either on Power Line Carrier Communication or predefined physically diversified Optical Ground Wire paths.

In this regard, CEA requested CTU & POWERGRID to identify all such ISTS lines wherein OPGW implementation is yet to be done & take up its implementation. Subsequently, CEA vide their letter dtd. 22.11.24 (attached at **Annexure-B.2.11.2**) communicated that all the upcoming lines shall be provided with 48 Fiber OPGW to cater for broadband and internet requirements in the rural areas and hinterlands to provide reliable Telecom connectivity.

The growing power demand, coupled with the rapid expansion of generation capacity including renewables, necessitates the planning and implementation of LILO of existing transmission lines. However, the absence of OPGW on primary transmission lines results in challenges such as reduced tele-protection capability, lack of route diversity, and insufficient redundancy for transmitting Grid Operation SCADA data to RLDC. Subsequent planning & Installation of OPGW on existing lines which are undergoing LILO often leads to a mismatch in implementation timelines between proposed LILO and the OPGW installation on the main line, as OPGW work on the main line typically takes more time than executing planned TBCB/RTM LILO schemes, due to live-line installation requirements, PTW approvals from RLDCs, and ROW challenges.

Accordingly, CTU has prepared the list of lines which don't have OPGW in consultation with TSPs for planning of OPGW installation on such lines. The details of such lines are given below

POWERGRID Transmission lines under RTM without OPGW: Tentative figure is given Below:

S.No	Region	Total Transmission Length
1	NR	4142
2	WR	4876
3	SR	810
4	ER	2297

5	NER	290
	Grand Total (Approx.)	12415

➤ Powerlink (Joint Venture of POWERGRID & TATA Power) Transmission lines without OPGW:

S.No	Region	Total Transmission Length
1	ER	314
2	NR	846
	Total	1160

➤ Parbati Koldam Transmission Company Limited (Joint Venture of POWERGRID & Reliance Power)
Transmission lines without OPGW:

S.No	Region	Total Transmission Length
1	NR	67
	Total	67

Private TBCB Transmission Lines without OPGW:

S.No	TSP Name	Region	Total
1	Indigrid	ER	721
2	Adani	WR	1356
3	Indigrid	WR	515
4	Sekura	SR	93
5	Sekura	NR	149
		Total	2834

Grand Total for the Transmission Lines without OPGW – 16,476 Kms (Pan-India).

It is requested that all the TSPs (POWERGRID, Adani, Indigrid, Sterlite/Resonia, TATA Power, Aparava, etc.) and RLDC may also check and intimate if any lines without OPGW is not mentioned here so that same may be included for further consideration. Further, detail of required FOTE may also be checked and confirmed by respective TSPs.

State lines without OPGW:

Many STU lines also got LILoed on the ISTS substations, for which OPGW installation in the main line is to be taken care by respective State Utilities. STUs are also requested to identify and list out such lines for planning OPGW installation and update RPC forum for timely implementation of ISTS/STU schemes.

As a proactive approach, all the Central and State Sector utilities are to prioritize the implementation of the 48 F-OPGW laying across the transmission network to ensure compliance with regulatory requirements and directives as mentioned above

Accordingly,

1. For ISTS lines CTU has prepared the schemes for implementation of OPGW on existing transmission lines of voltage 132kV and above, on which OPGW is not available, along with estimated cost are as follows:
 - a. For TBCB projects, the scheme would be implemented by respective TSP under Change in Law / RTM
 - b. For RTM projects, the scheme would be implemented by respective TSP under RTM
 - c. The tentative cost for implementing the OPGW laying scheme across **pan-India ISTS network is ₹985 crores.**
2. For intra state projects, it is suggested that STUs shall formulate the scheme of implementation of OPGW on existing system for their respective states.

This agenda has been discussed in 16th NPC dtd 04.07.2025. NPC suggested that the proposal for installation of OPGW on the existing lines of ISTS may be put in upcoming RPCs/NCT meeting for deliberation. STU may also put up the scheme for OPGW on existing lines in respective RPCs.

The agenda has already been discussed & in principle approved in **80th NRPC dtd. 18.07.2025** and **55th SRPC dtd. 26.07.2025**. This agenda for OPGW laying along with cost for NER has been approved in **30th NERPC dtd. 14/11/25**.

Accordingly, the scheme for laying of OPGW along with associated Communication System on existing ISTS lines wherein OPGW isn't present is being formulated on Pan-India basis. In ER Region, the total length of ISTS transmission lines that don't have OPGW is approx. **2992 km**. The approximate cost for laying OPGW on these lines in ER is **182.88 Crs**.

OPGW laying on cross border transmission lines shall be considered later in coordination with Bhutan as suggested by CEA & ERPC.

The detail of proposed scheme for laying of the OPGW along with associated Communication System on existing ISTS lines wherein OPGW isn't present for ER Region is attached as **Annexure -B.2.11**

CTU may update. Members may discuss.

Deliberation in TCC meeting

CTU informed that as per the existing plan Powegrid, PowerLink and Indigrid is expected to complete the laying of OPGW in existing ISTS and CTU lines in 30months,30 months and 34

months respectively.

CTU further informed that the proposed OPGW scheme includes FOTE(minm 5 direction) and amplifiers/Optical interfaces/Repeater station.

TCC Decision

TCC in principally agreed with the proposal of CTU and refereed the matter to ERPC for concurrence.

TCC also opined that in case LILO portion of any ISTS or CTU line belongs to other licensee OPGW laying of that section shall be carried out by Licensee of the main line.

Deliberation in ERPC meeting

ERPC concurred the proposal of CTU for installation of OPGW & associated communication systems on the existing lines of ISTS.

B.9: Third party protection audit for critical substations: ERPC Secretariat

As per IEGC 2023 Clause 15.2, “All users shall also conduct third party protection audit of each sub-station at 220 kV and above (132 kV and above in NER) once in five years or earlier as advised by the respective RPC.”

Further, IEGC 2023 Clause 15.3 states that “After analysis of any event, each RPC shall identify a list of substations / and generating stations where third-party protection audit is required to be carried out and accordingly advise the respective users to complete third party audit within three months.”

As per deliberation in 52nd ERPC meeting ERPC approved expenditure of Rs. 35 lakhs (including taxes) for hiring of outsourcing services through an agency to assist in carrying out third party protection audit in some of the critical substations of ER in FY 2024-25.

Consequently, a bid was floated on 4th Jan 2025 by ERPC secretariat for hiring third party agency to assist in carrying out third party protection audit for 7 number of substations listed as follow

1. 400/220 k V Tenughat S/s

2. 400k V Kahalgaon S/s

3. 400/220 k V Jeerat S/s

4. 400/220 k V Lapanga S/s

5. 220/132 k V Biharsharif S/s

6. 400/220 k V Meeramundali S/s

7. 220/132 k V Ramchnadrapur S/s and after complete bid evaluation bid work order was issued to M/s PRDC on 20th May 2025 for price Rs 29,79,500 including GST and all taxes as applicable.

As audit was started in June 2025 for above mentioned substations hence in 54th ERPC Meeting, ERPC approved the budget of Rs. 35 lakhs in FY 2025-26 for the purpose of protection audit.

Protection audit for mentioned 7 numbers of substations has been completed successfully.

Hence, for FY 2026-27, third party protection audit of around 15 nos is proposed to be carried out by ERPC for which Rs 60 lakh will be required for expenses involved in hiring third party agency for assisting ERPC in carrying out third party protection audit.

Members may discuss.

Deliberation in TCC Meeting:

ERPC Secretariat representative highlighted key observations of third-party protection audit of seven number of substations.

TCC Decision

TCC noted and advised to share the observations with the concerned utility and the compliance of the same shall be monitored in PCC Meeting.

- *TCC further recommended the proposal of ERPC Secretariat to carry out third party protection audit for fifteen substations in FY 2026-27 with a budget estimate of Rs. 60 lakhs (Rupees sixty lakh only) and referred it to ERPC for approval.*
- *TCC also suggested that the location of the proposed 15 substations shall be finalized in the OCC/PCC meeting.*

Deliberation in ERPC meeting

ERPC approved the budget estimate of Rs. 60(sixty) lakhs to carry out third party protection audit of 15(fifteen) nos. substation by ERPC Secretariat in FY 2026-27.

B.10: Support Service for Protection Database Project of ER for FY 2026-27 : ERPC Secretariat

As per clause 14(3a) of CERC(IEGC)-2023, RPCs are required to maintain a centralized database of relay and protection settings of their concerned region.

In 53rd ERPC Meeting held on 11.02.2025, the proposal for continuing support service for existing project "Creation and Maintaining a Web based Protection Database and Desktop based Protection Setting Calculation tool for Eastern Regional Grid" for an interim period of one year w.e.f. 01.04.2025 was approved which is continuing and support service will expire on 31st March 2026.

To ensure reliable and up-to -date database, continuation of support service of the project is very much necessary therefore it is proposed that support service may be extended/ renewed for period of one year for the protection database project.

It is further proposed that PDMS portal may be enhanced to include features such as sorting relay settings by type, generating summary reports for quick reference, and enabling automated checks for deviations from the standard protection philosophy. These enhancements will

facilitate timely audits, ensure adherence to protection standards, and help prevent incidents caused by incorrect settings.

Based on scope of work and escalation factor, Rs 80 lac per annum needs to be approved for existing project "Creation and Maintaining a Web based Protection Database and Desktop based Protection Setting Calculation tool for Eastern Regional Grid" for a period of one year w.e.f 01.04.2026.

Members may discuss.

Deliberation in TCC Meeting

TCC recommended the proposal of ERPC Secretariat for renewal of the support service of Protection database for FY 2026-27 with an estimated cost of Rs. 80 lakhs (Rupees Eighty Lakhs) and referred it to ERPC for approval.

Deliberation in ERPC meeting

ERPC approved the proposal of ERPC Secretariat for renewal of the support service of Protection database for FY 2026-27 with an estimated cost of Rs. 80 lakhs (Rupees Eighty Lakhs).

MS, ERPC informed that the servers and other hardware of the protection database project has completed more than 8 years of service life and therefore equipment needs replacement as and when failure occurs. ERPC agreed to it and suggested that the hardware may be replaced as per the requirement and the expenditure approval may be taken in subsequent ERPC Meeting.

B.11: Renewal of AMC Services -for AMR system in Eastern Region for the period April-26 to March-29: POWERGRID

In the ongoing AMR project for the Eastern Region, the LOAs have been awarded on a phase manner by considering the number of Meters available at the time of LOA placement. Each LOA had scope of installation, warranty and AMC services. At present in AMR, there have been a total of five phases awarded with different sets of Meters. Each phases AMC scope is getting ended on different timelines. Details given below: -

Project	Meter Count	AMC Contract Start	AMC Contract End
AMR Phase1&2	656	01-Apr-21	31-Mar-26
AMR Phase3	326	01-Sep-22	31-Mar-26
AMR Phase5	300	19-Feb-26	19-Oct-26
AMR Phase4	200	1-May-23	30-Apr-27

AMR SEM data is critical for performing the weekly accounting for the constituents hence the renewal of the AMC contract is required. The scope of AMC Services will be the same as per the ongoing requirements and in addition to that, the newly developed requirements like 05 min Load Survey Data, 01 min instant data etc. will also be part of the AMC Services scope under this contract.

Detailed scope of work to be done in the AMC support period is attached in **Annexure B.2.13**. Considering the same, year wise breakup as below:

ar-1 (same unit rate)						
Project	Meter Count	AMC Start	AMC End	Unit Rate (per year, Meter)	AMC (per per)	Total AMC Rate
AMR Phase 1 & 2 + AMR Phase-3	982	1-Apr-26	30-Apr-27	15117		16081969
AMR Phase5	300	1-Nov-26	30-Apr-27	15117		2267550
				Total		18349519
ar-2 (04% escalation on unit rate)						
Project	Meter Count	AMC Start	AMC End	Unit Rate (per year, Meter)	AMC (per per)	Total AMC Rate
AMR Phase1&2 + AMR Phase3+AMR Phase4+AMR Phase5	1482	1-May-27	31-Mar-28	15722		21357902
ar-3 (06% escalation on unit rate)						
Project	Meter Count	AMC Start	AMC End	Unit Rate (per year, Meter)	AMC (per per)	Total AMC Rate
AMR Phase1&2 + AMR Phase3+AMR Phase4+AMR Phase5	1482	1-Apr-28	31-Mar-29	16665		24697502
tal AMC cost for Three Years						64404922

Total cost of ownership of AMC extension till 31-Mar-29 will be 6,44,04,922 INR (without taxes).

In 232nd OCC Meeting,

- POWERGRID informed the forum that the Annual Maintenance Contracts (AMC) for AMR (Automated Meter Reading) systems under Phases 1, 2, and 3 are set to expire by March 2026, while those for Phases 4 and 5 will conclude by October 2026 and April 2027, respectively.

- In view of the above timelines, POWERGRID requested the forum to consider extending the AMC period for an additional three years, i.e., up to March 2029, to ensure continued support and maintenance of the AMR infrastructure.
- Additionally, POWERGRID highlighted that the hardware components of all AMR systems have already been updated, and only software updates remain pending.

In 55th CCM Meeting,

SE (Comml) informed that the issue was deliberated in details in the OCC meeting and OCC agreed with the operational necessity of extending the AMC for AMR to maintain reliable data acquisition and system functionality.

- Powergrid's representative apprised the Committee that the renewal of AMC services covering all five integrated phases of the AMR system in the Eastern Region up to 31st March 2029 is estimated to cost **Rs. 6,44,04,922/-**, exclusive of applicable taxes. It was further indicated that a final negotiation exercise with **M/s TCS** is planned to achieve cost optimization further.
- MS ERPC enquired whether any process has been initiated by Powergrid for installation of new AMR after expiry of integrated AMC services i.e., after March 2029 and the estimated cost involved for the new project.
- Representative of Powergrid submitted that the proposal is likely to be initiated during the year 2027. He further submitted that at this point of time no cost estimation is possible.
- The Committee in-principally agreed with the proposal of extension of AMC till 31st March 2029 of all existing AMRs along with the estimated cost of Rs. 6,44,04,922/-, exclusive of applicable taxes and requested Powergrid to negotiate further with M/s TCS. It was decided to forward the agenda to the 55th TCC and ERPC meetings for consideration and necessary approval.

POWERGRID may update. Members may discuss.

Deliberations in TCC meeting

TCC agreed with the proposal of Powergrid for extension of AMC till 31st March 2029 for all existing AMRs with the estimated cost of Rs. 6,44,04,922 /- exclusive of applicable taxes and referred it to ERPC for concurrence.

Deliberation in ERPC meeting

ERPC noted and approved the proposal for extension of AMC till 31st March 2029 for all existing AMRs with the estimated cost of Rs. 6,44,04,922 /- exclusive of applicable taxes.

B.12: Concern Regarding the AMC Proposal Submitted by M/s Chemtrols for SCADA System Post-ULDC-II: WBSLDC

The SCADA AMC for the period 2015–2025 was awarded to M/s Chemtrols by Power Grid Corporation of India Ltd. (POWERGRID) on behalf of all Eastern Region constituents. Under the terms of this contract, the actual payment that SLDC made for one year AMC period (July 23 to July 2024) is Rs. 35.33 Lakh (highest amount paid for 1 year so far) including GST and price variation adjusted with consumer price index.

Upon the expiry of the existing AMC, M/s Chemtrols has submitted a proposal for continuation of the AMC for one additional year (until the commissioning of ULDC-III) at **₹1.32 crore**, which has subsequently been negotiated by POWERGRID to **₹1.20 crore**. This revised figure

represents an escalation of nearly 300% over the prevailing combined annual cost (AMC + price variation). Such a steep increase is not commensurate with inflation levels, established price-indexation practices, or any other rational cost-justification mechanism.

SLDC, West Bengal wishes to formally record its strong objection to this disproportionately high quoted value. The absence of competitive alternatives—arising from M/s Chemtrols prior assignment as the ULDC-II vendor—appears to place constituents in a position where acceptance of an excessive, non-competitive rate becomes unavoidable. This not only poses a significant financial burden on the beneficiaries but also raises the possibility of future audit observations.

It is further requested that the representative from POWERGRID deliberate on the matter and initiate appropriate action to ensure that a fair, transparent, and financially prudent resolution is reached prior to finalizing the AMC extension.

Deliberations in the OCC meeting

WBSLDC reported that the existing AMC for the SCADA System maintaining by System Integrator i.e. M/s Chemtrols Industries Pvt. Ltd, expired in Oct' 2025. For the renewal of the AMC for one additional year (until the commissioning of ULDC-III), M/s Chemtrols has quoted a new price of ₹1.20 crore. This quoted price is a 300% escalation over the prevailing combined annual cost (AMC + price variation).

- ERLDC reiterated the background of this AMC extension, noting that it had been discussed in the 230th OCC meeting held on 22.08.2025, Bhubaneswar and subsequently in the 231st OCC meeting held on 22.09.2025 at the ERPC, Kolkata.
- Subsequently, in compliance to the direction of OCC, PowerGrid organized a special meeting held on 30.10.2025 at the POWERGRID, ER-II office in Kolkata to finalize the modalities, terms & conditions & cost. In this meeting, M/s. Chemtrols was advised to submit a fresh offer to each constituent in line with the recently awarded AMC of ERLDC, while also factoring in the specific facts, end of life of assets, scope, and requirements of each constituent.
- It was also deliberated that the unified negotiation approach was taken at the request of SLDC Bihar in the 230th OCC meeting to enable them to facilitate further approval processes at their respective organizations.
- ERLDC also updated that it will take another one year for implementation as well as integration of New SCADA system in ER.

In 233rd OCC Meeting,

OCC opined that SCADA AMC renewal is inevitable for a safe, secure and reliable operation of the Grid since SCADA is the backbone of modern power system.

- OCC opined that the choice of accepting the new price as quoted by M/S Chemtrols Pvt Ltd lies with the States & accordingly advised all the states to take up the matter of SCADA AMC cost escalation with POWERGRID and to find a suitable resolution bilaterally.

In 55th CCM Meeting,

SE (Comml) intimated that the issue was discussed in OCC and OCC opined that SCADA AMC renewal is inevitable for a safe, secure and reliable operation of the Grid since SCADA is the

backbone of modern power system.

- Representative of West Bengal informed the house that Rs. 35.33 Lakh (highest amount paid for 1 year so far) including GST and price variation adjusted with consumer price index was paid by SLDC made for one year AMC period (July 23 to July 2024). For the new AMC, after negotiation, M/s Chemtrols has quoted a new price of ₹1.20 crore.
- Representative of West Bengal raised their concern over abnormal high price (around 3 times of previous AMC value) offered by M/s Chemtrols for the AMC of the existing SCADA system for 1 year and subsequently the same may attract audit objection.
- Representative of Powergrid submitted that they had already carried out negotiation with M/s Chemtrols. The new SCADA system is likely to be commissioned within 6 months of time. Though the AMC is for a period of 1 year and as the payment mode is on quarterly basis, contract may be terminated after commissioning of the new SCADA system as per the contract agreement.
- Considering the essentiality of the SCADA, the Committee advised Powergrid to further negotiate with M/s Chemtrols for said AMC rate.

POWERGRID may update. Members may discuss.

Deliberations in TCC meeting

Powergrid appraised that ULDC-III will be implemented within 6 months for a period of 7 years which can be extended by further 2 years at the same AMC price.

- *WBSETCL however urged*
 1. *the forum that the commissioning of ULDC-IV may be ensured before the expiry of the AMC contract for ULDC-III so that any exorbitant cost escalation may be avoided. In case of any extension beyond (7+2) years, same rate of AMC should be confirmed by Power Grid.*
 2. *Any further scope of price reduction for AMC cost offered by M/S Chemtrol may please be explored by Power Grid.*

TCC suggested to WB to agree with the cost of AMC till the commissioning of ULDC-III.

Deliberation in ERPC meeting

West Bengal agreed with the proposed cost of AMC till the commissioning of ULDC-III. However, Powergrid was again requested to further negotiate with M/s Chemtrol for reducing the AMC Cost.

Power Grid stated that for this one-year extended warranty after their final negotiation, there is no further scope to reduce the AMC price. However, they will take adequate steps to ensure no further similar situation to crop up in future during transition of ULDC III to ULDC IV.

B.13: Withdrawal of RTDA charges for power scheduled from Dagachhu, Bhutan to WBSEDCL – TPTCL

References:

1. ERPC 52nd Commercial Committee Meeting held on 28.01.2025 and Item no. B13
2. ERPC 53rd TCC Meeting held on 10.02.2025 and item no. 2.23

With reference to the outcome of 53rd TCC Meeting 10.02.2025; ED, ERLDC informed that NLDC is going to issue clarification in the above matter shortly and it was decided that ERPC Secretariat will revise the account accordingly.

Accordingly, ED, NLDC issued letter dtd. 11.02.2025 clarifying that NLDC laid cognizance to the merits of scheduling power as per IEGC 2023 clause 45(14) and considering the contracts of Dagachhu HEP as legacy contracts as considered in CERC order dated 09.11.2021 in the petition number 214/MP/2019, NLDC had considered the contracted quantum of Dagachhu, Bhutan to WBSSEDCL to be as a deemed grant of access for the generator.

Hence, with the above clarification and TPTCL's continued persuasion with related stake holders we submit this agenda for ERPC 55th Commercial Committee Meeting scheduled on 09.12.2025; with a hopeful anticipation of concluding this matter to withdraw the RTDA charges of Rs 77.70 lakhs and process for refund to TPTCL.

Submitted for consideration and approval by the competent authorities.

In 55th CCM meeting,

Representative of TPTCL explained the issue from their end.

- SE (Commercial), ERPC provided a brief background of the issue and submitted that the RTDA charges of TPTCL for March 2024 cannot be withdrawn, and the RTDA accounts placed on hold for the period from October 2023 to February 2024 cannot be held upon further by the ERPC Secretariat or the CCM forum on a Suo motu basis.
- ERPC Secretariat or the CCM forum could not take any decision in this regard. The matter requires detailed deliberation and approval at appropriate higher forums.
- The Committee referred the issue to the upcoming 55th TCC and ERPC meetings for further deliberation and take a suitable decision.

TPTCL may update. Members may discuss.

Deliberations in TCC meeting

CTU informed that Tata Power Trading Company Limited (TPTCL) vide application no. 2200000488 dated 02-01-2024 had applied for 126MW GNA as a Trading Licensee engaged in cross border trade of electricity for injection of power from Dagachhu Hydro Power Plant (2x63MW) located in Bhutan into the Indian Grid with start & end date as 01-03-2024 and 31-03-2040 respectively.

The said application was deliberated in the 28th CMETS-ER meeting held on 23-02-2024 wherein it was mentioned that considering the fulfilment of requisite regulatory requirements viz. furnishing applicable Conn-BG(s), One-time GNA charges, signing of the agreement, etc., the start date may be changed from 01-03-2024 to 01-04-2024. All stakeholders including applicant agreed to change the start date. Accordingly, the 126MW GNA was granted to M/s TPTCL for the said application vide CTU intimation dated 14-03-2024 with start date as 01-04-2024 & end date as 31-03-2040.

Subsequently, M/s TPTCL had furnished applicable Conn-BG(s) and one-time GNA charges in line

with GNA Regulations, 2022. Accordingly, the 126MW GNA granted to M/s TPTCL was made effective w.e.f. 01-04-2024 vide CTU letter dated 27-03-2024.

MS, ERPC appraised the forum about the issue and stated that the issue emerged during the introduction of the CERC (GNA) regulation and misinterpretation of the regulations at TPTCL end. He suggested that being a legacy contract, the period of Oct-23 to March-24 may be considered as deemed grant of access in line with the NLDC's suggestion vide letter dated 11.02.2025. He added that there will be no financial implications on any of the beneficiaries and only the RTDA account needs to be revised for the mentioned period.

On a query to CTU on the above issue, they stated that they are only raising the bill based on the RTDA account as issued by ERPC Secretariat.

TCC Decision:

TCC agreed with the above suggestion of MS and advised ERPC Secretariat to treat the contracted quantum of Dagachu power with West Bengal under Deemed GNA and issue/ revise the RTDA account of TPTCL for the period of Oct-23 to March-24.

➤ The matter was referred to ERPC for approval.

Deliberation in ERPC meeting

ERPC agreed with the suggestion of TCC and advised ERPC Secretariat issue/ revise the RTDA account from the period Oc-23 to March-24 accordingly. ERPC further stated that, directives in this regard, if any, in future issued by CERC will prevail.

B.14: Upgradation of 66/11 kV Bulbuley Sub-station to 132 kV Level and Associated Transmission Infrastructure Works in Gangtok: Sikkim SLDC.

Upgradation of 66/11 kV sub-station at Bulbuley (Gangtok) to 132 kV voltage level, establishment of AIS extension bay at POWERGRID 132/66 kV sub-station at Lagyap and GIS bays at Bulbuley along with installation of 132/66 kV, 2x25 MVA transformers at Bulbuley along with construction of 132 KV LILO arrangement at 132 kV D/C transmission line.

Estimated Cost = Rs. 167.42 Crore.

Bulbuley is the only major substation within Gangtok proper that still has scope for upgradation and availability of ROW corridor for construction of transmission line. Capacity augmentation is not possible in remaining two other 66/11 kV sub-stations within Gangtok proper, i.e. Tadong and Sichey, owing to space and ROW constraints. These areas are now completely built up and commercialized.

Urgent need to upgrade the main power supply to main Gangtok city area to 132 kV voltage level due to current condition of the existing lines all of which are 66 kV lines.

Need to undertake the work soon since there will not be any ROW availability nor space for expansion of sub-station in Gangtok proper in the near future.

In 55th CCM meeting,

Representative of Sikkim explained the issue.

➤ Representative of Powergrid submitted that the issue is placed for the first time in this meeting and requested Sikkim to provide the single line diagrams and other necessary documents to Powergrid at the earliest for study at their end.

➤ Committee was of the view that the issue should have been placed before OCC forum. However, considering the urgency as expressed by Sikkim, advised Powergrid to carry out a

detailed study in coordination with Sikkim and submit a report in the upcoming 55th TCC & ERPC meetings for their consideration and further decision on the issue.

SLDC, Sikkim may explain, Members may discuss.

Deliberation in TCC meeting

Representative of Power Dept, Sikkim informed that the proposal for upgradation of 66/11 kV Bulbulay substation to 132 kV Level & other associated transmission work is put up considering the load growth of Gangtok in coming 10- & 15-years' timeframe and considering the constraints in constructing new transmission lines in the Gangtok area due to rapid urbanization.

Powergrid submitted that as per their preliminary survey, there would be clearance issues for extension of the bus at 132 kV Gangtok S/s and therefore he suggested for joint site inspection to assess the site feasibility for the proposed plan.

CTUIL informed that the present proposal is already under discussion at CEA level and as per the preliminary observation by CEA, the present upgradation is not required for Sikkim. However, in case of fresh proposal considering the change in load growth, the scheme may be put up to CEA for deliberation.

TCC Decision

TCC noted the concern of Sikkim for requirement of upgradation of Bulbulay S/s at 132 kV level keeping in view reliable power supply at Gangtok with enhanced demand and RoW issues & Space constraints in the vicinity. TCC advised ERPC Secretariat to plan a onsite visit comprising representatives from Powergrid, Power Dept Sikkim, ERLDC & ERPC.

TCC advised Power Dept, Sikkim to forward the proposal to CEA with proper justification for further deliberation and consideration.

TCC referred to ERPC.

Deliberation in ERPC meeting

ERPC noted the decision of TCC and ERPC Secretariat was advised to plan a onsite visit comprising representatives from Powergrid, Power Dept Sikkim, ERLDC & ERPC.

B.15: Short drawl of Odisha share of power from Machkund Hydro Electric Project: Additional agenda by GRIDCO

The Machkund Hydro Electric Project is a joint project of Government of Andhra Pradesh & Government of Odisha with shares of power 70:30 as per the Inter-State Supplementary Agreement executed in the year 1978 between both the Governments. As per the supplementary Machkund Agreement, 1978 Odisha has the option to draw an additional 20 % power at a cost of Rs.0.08/unit. So Odisha is entitled to draw 50 % of the total generation from Machkund Hydro Electric Project on real time basis. (30% on paying pro-rata O&M cost charges & 20% @ 8 paise/unit). In order to bring back the remaining 20% of 50% original share of Odisha from Machkund Hydro Electric Project and to renovate, modernize and uprate the Hydro Project as it has outlived its useful life

period, another agreement was signed between Govt. of Andhra Pradesh, APGENCO, Govt. of Odisha and OHPC on 23.10.2020. Accordingly, the State of Odisha is entitled to draw its 50% share from Machkund HEP on payment of 50% O&M charges.

It is pertinent to mention here that the short drawl of power from Machkund (Joint) Hydro Electric Project by the State of Odisha comes around 95 MU from Dec'20 (from the date of signing of New Machkund Agreement, 2020) to Oct'25. APGENCO has agreed to compensate this short drawl of energy through Power Banking Arrangement as per Clause-25 of New Machkund Agreement,2020.

Meanwhile, on account of "Montha Cyclone" as a precautionary measure 220 kV link between Upper Sileru (Andhra Pradesh)-Balimela (Odisha) was taken into service since 27.10.2025 with radial load of 17-20 MW isolated from Odisha Grid. However, it is observed that the line experienced a tripping incident at 12:05 Hrs on 20.11.2025 on Distance Protection. Following the tripping, the line was idle-charged from the Balimela Power House end at 16:39 Hrs on the same day, thereby restoring the electrical connection from the Odisha side. Subsequently, the line was again idle-charged from the Upper Sileru end up to the Balimela terminal at 00:49 Hrs on 21.11.2025, enabling readiness for resumption of normal inter-State power flow .After restoration of the line and system readiness at both terminals, it is noted that APGENCO has not allowed power flow thereafter. This restriction has disrupted the previously established radial load arrangement and has impacted the availability of 17–20 MW of power that is routinely dispatched through this link to meet essential demand.

Submission:

On the above backdrop, it is put forth:

- (i) To reinstate the power flow from the Upper Sileru end and to allow the regular dispatch of 17–20 MW radial load to Balimela in order to compensate the short drawl of power by the State of Odisha from Machkund Hydro Electric Project.
- (ii) The Power Flow in the 220Kv Upper-Sileru Balimela SC Line may not be considered as Inter State Drawl of GRIDCO (Odisha) & may be allowed to be settled bilaterally between Odisha & Andhra Pradesh against the accumulated arrear energy till date.

Deliberation in ERPC meeting

GRIDCO submitted that State of Odisha is entitled to draw its 50% share from Machkund HEP. However, short drawl of power from Machkund (Joint) Hydro Electric Project by the State of Odisha comes around 95 MU from Dec'20.

GRIDCO requested the intervention of the ERPC forum and requested the forum to take up this matter of short drawal with SRPC forum.

ERPC took note of the issue and stated that ERPC Secretariat may take up this issue with SRPC and shall request SRPC for a joint meeting involving all the stakeholders.

PART-C: AGENDA ITEMS IN RESPECT OF ERPC SECRETARIAT

C.1. Outsourcing of manpower in ERPC Secretariat.

Recently CAG audit has observed that as per the General Financial Rules (GFR) 2017, a Ministry/Department may outsource certain non-consulting services if it is deemed to be in the interest of economy and efficiency, but detailed procedures should be in place. Outsource staff should be restricted to the sanction strength. ERPC hired employees through outsourcing for non-technical works of the office. Audit observed that during last four years outsourcing staff were excess in comparison to the sanctioned strength ranging between seven and 30. Though the excess no. of outsourced manpower was reduced from 30 to seven there is still excess of sanctioned strength in position as on 31.03.2025 and CAG requested to review the requirement of outsourced manpower.

In this regards It is to apprise that this office has a large office building and residential complex. It has considerable amount of movable and immovable property and valuable documents which required to be protected. Major number of outsourced staffs are working as chowkidar in this office and residential complex. Apart from that for cleaning of this large office space housekeeping personnel have been engaged. Apart from these, number of other outsourced manpower engaged in this office is in a very small in number and engaged in essential work like driving, electrician job, technical maintenance etc. For smooth running this office, this minimum outsourced manpower strength is utmost required at present.

Number of outsourced manpower as on 1st November 2025 is given below:

SI No	Category of outsourced manpower	Number
1	MTS Supervisor	1
2	MTS Chowkidar	11
3	Electrician	1
4	Driver	1
5	MTS Technical Service	1
6	MTS Housekeeping	4

This office has tried to reduce the number of outsourced manpower over the last few years. In place of hiring manpower directly, office is outsourcing the work to various vendors.

This is to intimate to the forum that, number of manpower as detailed above will be required for smooth running of this office at present. If in future, further manpower is required in the office, same will be placed in the forum for approval.

If approved by the forum, concerned business rules of ERPC may be modified accordingly.

Member may discuss.

Deliberation in ERPC meeting

MS appraised the forum how ERPC Secretariat has reduced the number of outsourced manpower engaged in this office in the last couple of years. He also stated that manpower available at present is sufficient to run the office smoothly. Forum noted the present status of

outsourced manpower available at this office.

Forum agreed that, this number of outsourced manpower will remain unchanged in addition to approved sanctioned strength of ERPC Secretariat. If any additional requirement comes in future, same would be placed before ERPC forum with proper justification. Accordingly, CBR of ERPC will be modified.

C.2. Request by HPX for participation in ERPC Forum

A letter has been received to the office of Chairperson CEA from Hindustan Power Exchange Ltd (HPX) requesting to allow them to be a non-member participant of ERPC. Same letter has been forwarded to ERPC Secretariat. In this matter it is to state that, in ERPC, apart from members of committee, few organizations are there as non-member participants of ERPC and as per the approval of ERPC Board from time to time a Contribution is paid by that organisation. At present organisation like Adhunik Power, DANS Energy Pvt Ltd, Sneha Kinetic etc are the non-member participants of ERPC.

In this respect, it is to state that, being a power exchange HPX is serving the Eastern Region also. They are central to power price discovery, dispatch and short-term commercial settlement. CERC has also directed for implementation of market coupling towards aggregating bids across exchanges. Therefore, in future exchange will play bigger role in the arena of power transactions. If HPX becomes a non-member participant, it would be beneficial for all constituents of ERPC as exchanging of knowledge would strengthen the power sector. In future all power exchange may also become the non-member participants of ERPC.

Member may discuss.

Deliberation in ERPC meeting

ERPC Forum agreed to include HPX as a non-member participant of ERPC and directed ERPC Secretariat to take necessary action in this regard.

C.3. Application of Government Rule for IT items.

It is to apprise to the forum that, ERPC secretariat is following the Government of India, General Finance Rule (GFR) 2017 and subsequent amendments in all procurement related matters. However, provision of procuring and assigning any IT items in the name of any official is not in place. In this regard, there is one Government of India Rule issued vide letter under F.No. 03(20)/2022-E.II(A) dated 21st July 2023. To streamline the process of procurement, assigning IT equipment and upheld the accountability of the same, if approved by the forum, above said GoI may be applied for ERPC Officers.

In this regard, it is to state that as per the CBR of ERPC, ERPC Secretariat will be manned by the officers from Central Power Engineering Service cadre and eligibility of IT items will be decided based on the total officers in this service.

Member may discuss.

Deliberation in ERPC meeting

ERPC agreed to the proposal as it is in alignment with the Government of India Rules and directed to implement it.

C.4. CAG Observation on non-payment of Contribution to ERPC.

A: Loss of interest due to delay in payment of contribution from members

Scrutiny of the records by CAG revealed that during the period covered under audit (FY 2021-22 to FY 2024-25), contribution from the members and participation fees from non-member are not received in time bound manner. As a result, the contribution fees and participation fees remained

outstanding for a considerable time. The following table showing dates of ERPC meeting where membership/participation fees were approved, and date of Letter sent to the members requesting for fees:

For the Financial Year	ERPC meeting membership/participation fees where approved	Letter sent to the members requesting for fees
2021-22	43rd dated 26.03.2021	28.04.2021
2022-23	45th dated 26.03.2022	19.04.2022
2023-24	49th dated 24.03.2023	30.05.2023
2024-25	52nd dated 06.09.2024	27.09.2024

According to Conduct of Business Rules of ERPC all members shall send their contributions in one instalment to the ERPC Secretariat within 30 days from the date of communication by ERPC Secretariat failing of which may attract penalty. However, despite sufficient time the constituent members did not pay their contribution in time resulting in loss of working capital to the tune of ₹54.62 lakh in the form of interest.

Further, as per Conduct of Business Rules the contribution from members and participation fees for non-members should be discussed in the last ERPC meeting of the preceding financial year. However, in 2024-25 the same was approved in September 2024.

ERPC Secretariat confirmed these facts observed by CAG, GoI.

To resolve the issue in future, a fixed timeline for issuing the demand letter for contribution is required to be prepared. Demand letter may be issues within the month of March of previous financial year with a request to make the payment within June month of the next financial year to avoid and interest loss in the account of ERPC Establishment Fund.

B. Non implementation penalty clause for delayed payment of contribution/participating fees

Conduct of Business Rules, 2022 of Eastern Regional Power Committee (ERPC) stipulates that

all

members shall send their contributions in one instalment to the ERPC Secretariat within 30 days from the date of communication by ERPC Secretariat failing of which may attract penalty. Scrutiny of the records by CAG revealed that in 142 instances the constituent members failed to deposit the fees in time stipulated in the Conduct of Business Rules in the last four financial year.

The matter of penalty clause was also discussed in the sub-committee meeting on ERPC Establishment Fund held on 31.07.2023 and the sub-committee agreed with the proposal of introduction of late payment surcharge for ERPC Establishment Fund starting from FY 2024-25 (copy enclosed). Erstwhile budgetary support from CEA was available as advance at the beginning of the financial year. Since the expenditure need to be incurred from ERPC Establishment Fund, it was proposed that timely payment of the contribution is required therefore mechanism for Late Payment surcharges have to be introduced.

It was proposed by the committee that the following clause may be added to the ERPC Establishment Fund Regulation: "If payment for reimbursement of membership/participation fees is not received by 30th June, 1 % per month or part thereof Late Payment Interest would be charged from 1st July onwards till payment".

In this context, it is pertinent to mention that no mechanism for surcharge for delay in payment of membership/participation fees is in place. In this regard, it is pertinent to mention that in 50th ERPC meeting dated 11.08.2023 (ITEM NO. B8) the late Payment Surcharge for delay in reimbursement of membership/participation Fees was discussed. It was noted that as number of defaulting utilities are few, Secretariat may approach them individually and pursue the matter to clear the pending dues within time. It was decided that at present the provision of late payment surcharge may not be required and requested all the members to clear the dues of ERPC Secretariat within the schedule time for smooth functioning of Secretariat.

However, as observed by CAG, a penalty mechanism may be put in place to confirm the timely payment by constituents.

C. Absence of mechanism to collect the outstanding participation fees

Scrutiny of the records revealed that some non-regular members participated in the committee during the period covered under audit i.e M/s GI Hydro Private Limited (formerly, M/s Gati Infrastructure Private Limited) did not pay its participation fess since 2017-18 due to loss since commissioning of the plant due to realization of lower rates in short term market. Additionally, it was also revealed that M/s Powerlink Transmission Limited and M/s Vedanta Limited also did not pay the participation fees during the period covered under audit. However, the entity continued to be part of the committee.

Pending payment from organization under the observation of Audit party as on 1st November 2025 is given below:

Name of the Constituent	Period of pending payment	Amount pending
M/s GI Hydro Pvt Ltd	FY 2017-18 to FY 2025-26	Rs.105.5 Lakhs

M/s Powerlink Transmission Limited	FY 2020-21 to FY 2025-26	Rs.57.5 Lakhs
M/s Vedanta Ltd	FY 2022-23 to FY 2024-25	Rs 25 Lakh

ERPC Secretariat has again sent letters to above mentioned organisation and requested to clear their dues at the earliest.

Members may discuss.

Deliberation in ERPC meeting

MS explained all the observations made by the C&AG to the forum.

A. ERPC Forum took a note of the C&AG observation on the loss of interest due to delayed payment made by few members and non-member participants inspite of having a timeline for making the payment of contribution. However, secretariat followed up all pending payments with the stakeholders regularly. It was decided to issue the demand letter for a Financial year by March of the previous financial year with a request to disburse the contribution by June of that Financial Year positively. CBR may be updated accordingly.

B. ERPC Forum noted the issue and directed to implement the suggestion made by the sub-committee on ERPC Establishment Fund in its meeting held on 31.07.2023 as follows –

“If payment for reimbursement of membership/participation fees is not received by 30th June, 1 % per month or part thereof Late Payment Interest would be charged from 1st July onwards till payment”.

CBR may be updated accordingly.

C. Forum advised M/s Greenko to resolve the matter of pending payment as they have taken over M/s GI Hydro Pvt Ltd within current financial year.

Forum also advised M/s Powergrid to resolve the matter of pending contribution of M/s Powerlink within current financial year.

Representative of M/s Vedanta Limited stated that pending payments will be cleared by them at the earliest.

MS, ERPC also apprised the forum that if any organization is going to NCLT, the pending dues in respect of ERPC must be included in the liabilities and ERPC Secretariat may be intimated accordingly.

C.5. Outstanding contribution to ERPC Establishment Fund

- Contribution for Members:

SI.No.	Name of the Organization	Period	Amount (In Rs. Lakhs)	Remarks
1	Adani Enterprises Ltd. (Nominated As Electricity Trader)	2024-25	16	Pending

2	GRIDCO Ltd.	2025-26	16	Pending
3	Odisha Power Trans. Co. Ltd. (Optcl)	2024-25 2025-26	32	Pending
4	Jharkhand Bijilee Vitaran Nigan Ltd.	2025-26	16	Pending
5	Jharkhand Urja Sancharan Nigam Ltd.	2025-26	16	Pending
6	Jharkhand Urja Utpadan Nigam Ltd.	2025-26	16	Pending
7	Tenughat Vidyut Nigam Ltd.	2025-26	16	Pending
8	TUL (Sikkim Urja Ltd.)	2025-26	16	Pending
9	SJVN Thermal Pvt. Ltd.	2025-26	16	Pending
10	Patratu Vidyut Utpadan Nigam Ltd.,	2025-26	16	Pending

Contribution for Non-Member participants-

SI.No.	Name of the Organization	Period	Amount (In Rs. Lakhs)	Remarks
1	Haldia Energy Ltd. (HEL)	2024-25 2025-26	16	Pending
2	India Power Corporation Ltd.(IPCL)	2024-25 2025-26	16	Pending
3	Powerlinks Transmission Ltd.	2020-21 to 2025-26	57.5	Pending
4	GI Hydro Pvt. Ltd. (Chuzachen HEP), (Formerly Gati Infrastructure Pvt. Ltd.)	2017-18 To 2025-26	105.5	Pending
5	Vedanta Ltd.	2022-23 To 2024-25	25	Pending

Deliberation in ERPC meeting

ERPC advised concerned members & non-member participants to process the pending payment within a month positively.

C.6. Contribution to ERPC Establishment Fund for The FY 2026-27 by Members

For the FY 2025-26 contribution of Rs.16 Lakh per member towards ERPC Establishment fund was approved by ERPC. It is proposed to keep the contribution unchanged for the FY 2026-27

at Rs 16 Lakh may be approved as Membership Contribution. Same may be deposited to below mentioned account –

‘ERPC Establishment Fund’ under A/c no. 6512022941 at Indian Bank, Tollygunge.
ERPC may approve.

Deliberation in ERPC meeting

ERPC approved contribution of Rs.16 (Sixteen) Lakh per member for the FY 2026-27.

C.7. Contribution to ERPC Establishment Fund for the FY 2026-27 by Non-Member Participant.

For the FY 2025-26 contribution of Rs. 8 Lakh per non-member participants towards ERPC Establishment fund was approved by ERPC. It is proposed to keep the contribution unchanged for the FY 2026-27 at Rs 8 Lakh may be approved as non-member participation Contribution. Same may be deposited to below mentioned account –

‘ERPC Establishment Fund’ under A/c no. 6512022941 at Indian Bank, Tollygunge.
ERPC may approve.

Deliberation in ERPC meeting

ERPC approved contribution of Rs.8 (Eight) Lakh per non-member participant for the FY 2026-27.

C.8. Re-apportionment of Budget for FY 2025-26

The internal budget of ERPC Secretariat was approved in 53rd ERPC Meeting. However, re-appropriation of amount of Rs 5 lakhs from the Head Repair Maintenance to Material and Supply was done by approval of Member Secretary, ERPC in order to procure essential items for ERPC Guest House and procurement of other materials.

Name of Head	Approved BE (in ₹)	BE after reapportionment (in ₹)
Material and Supplies	2,50,000	7,50,000
Repair and Maintenance	65,70,000	60,70,000

However as per the present balance status and expected expenditure, following re-appropriation is proposed for the budget of FY 2025-26 as follows-

Name of Head	Approved BE (in ₹)	BE after proposed reapportionment (in ₹)
Material and Supplies	2,50,000	9,50,000
Repair and Maintenance	65,70,000	58,70,000
RRT	12,00,000	24,00,000
Other Expenditure	5,00,000	8,00,000
DTE	17,00,000	19,00,000

Minor Works	15,00,000	5,00,000
Medical Treatment	3,00,000	4,00,000
Furniture and Fixture	10,00,000	2,00,000
Total	1,30,20,000	1,30,20,000

ERPC may approve.

Deliberation in ERPC meeting

ERPC accorded post-facto approval of the above budget reappportionment for FY 2025-26.

C.9. Budget Estimate of ERPC Secretariat for FY 2026-27

The proposed Budget Estimate (BE) for financial year 2026-27 is placed below –

SI. No.	Head	Proposed Budget
1	Reimbursement to Govt of India	5,08,00,000
1.1	Salaries	2,70,00,000
1.2	Allowances	2,30,00,000
1.3	Rewards	1,00,000
1.4	LTC	7,00,000
2	Medical Treatment	4,00,000
3	Training Expenses	6,00,000
4	DTE	20,00,000
5	Office Expenses	1,50,00,000
6	Fuel and Lubricants	1,00,000
7	Rent, Rates and Taxes for land & Buildings	25,00,000
8	Professional Services	5,00,000
9	Printing and Publications	1,00,000

10	Digital equipment and ICT	15,00,000
11	Material and supplies	9,00,000
12	Minor Civil and Electrical works	10,00,000
13	Repair and Maintenance	65,00,000
14	Installation of Fire Safety Equipment	30,00,000
15	Other Expenditure	8,00,000
16	Furniture & Fixture	10,00,000
17	Welfare & Recreation	2,50,000
18	OE-Meeting/Workshop/Seminar etc.	50,00,000
19	Support Service of Protection Database & Management System	80,00,000
20	Income Tax	20,00,000
21	Protection Audit	60,00,000
TOTAL		10,79,50,000

ERPC may approve.

Deliberation in ERPC meeting

ERPC approved the budget estimate of Rs. 10,79,50,000 /- (Rupees Ten crore seventy-nine Lakh fifty Thousand only) for ERPC Secretariat for FY 2026-27.

C.10. Actual expenditure incurred for FY 2025-26 (up to 30.11.2025)

The expenditure occurred for FY 2025-26 (up to 30.11.2025) are as follows-

Sl.No.	Head	Budget approved in 53rd ERPC Meeting	Cumulative Expenditure

1	Reimbursement to Govt of India	4,71,34,957	2,92,40,517
1.1	Salaries	2,44,82,309	1,53,16,176
1.2	Allowances	2,17,52,648	1,38,02,356
1.3	Rewards	1,00,000	61,175
1.4	LTC	8,00,000	60,810
2	Medical Treatment	3,00,000	2,10,805
3	Training Expenses	6,00,000	7,080
4	DTE	17,00,000	12,29,252
5	Office Expenses	1,50,00,000	70,94,566
6	Fuel and Lubricants	1,00,000	51,250
7	Rent, Rates and Taxes for land & Buildings	12,00,000	0
8	Professional Services	5,00,000	0
9	Printing and Publications	1,00,000	23,132
10	Digital equipment and ICT	20,00,000	3,39,708
11	Material and supplies	7,50,000	4,46,134
12	Minor Civil and Electrical works	15,00,000	1,47,150
13	Repair and Maintenance	60,70,000	18,19,440
14	Installation of Fire Safety Equipment	10,00,000	0
15	Other Expenditure	5,00,000	4,36,007
16	Furniture & Fixture	10,00,000	0
17	Welfare & Recreation	2,50,000	35,460

18	OE-Meeting/Workshop/Seminar etc.	50,00,000	2,71,472
19	Rooftop Solar	30,00,000	13,05,450
20	Support Service of Protection Database & Management System	80,00,000	46,31,896
21	Income Tax	20,00,000	10,17,190
22	Protection Audit	35,00,000	8,93,850
TOTAL		9,77,04,957	4,92,00,359

Deliberation in ERPC meeting

ERPC noted.

C.11. Finalization of dates and venue for the next ERPC & TCC meetings.

Sl.No.	Host Organization	Remarks
1	ODISHA	31 st ERPC Mtg. on 14.11.2015
2	JHARKHAND	32 nd ERPC Mtg. on 20.02.2016
3	BIHAR	33 rd ERPC Mtg. on 25.06.2016
4	CESC	34 th ERPC Mtg. on 19.11.2016
5	TPTCL	35 th ERPC Mtg. jointly on 25.02.2017
6	MPL	35 th ERPC Mtg. jointly on 25.02.2017
7	GMRKEL	36 th ERPC Mtg. on 26.08.2017
8	POWERGRID	37 th ERPC Mtg. on 17.06.2018
9	DVC	38 th ERPC Mtg. on 30.06.2018
10	NVVN	39 th ERPC Mtg. on 17.11.2018
11	NHPC	40 th ERPC Mtg. on 16.03.2019

12	NTPC	41st ERPC Mtg. on 27.03.2019
13	PTC	42nd ERPC Mtg. on 13.12.2019
14	ERPC Sectt.	43rd, 44th, 45th ERPC Mtg. during 2021-2022
15	WEST BENGAL	46th ERPC Mtg. on 06.08.2022
16	ERPC Sectt.	47th on 25.11.2022 & 48 th (Online) ERPC Mtg.
17	Power Dept, Sikkim & Sikkim Urja Limited jointly hosted	49th ERPC Meeting on 24.03.2023
18	ERPC Sectt.	50th ERPC Mtg on 11.08.2023
19	ERPC Sectt.	51st ERPC Mtg (Online) on 12.01.2024
20	NTPC	52 nd ERPC Mtg. on 06.08.2024
21	ODISHA	53 rd ERPC Meeting on 11.02.2025
22	POWERGRID	54 th ERPC Meeting on 18.07.2025
23	ERPC Sectt.	Special Joint TCC & ERPC Meeting (online) on 11.08.2025

ERPC may finalize the venue and organizer of the 56th TCC and ERPC meeting.

Deliberation in ERPC meeting

It was decided that ERPC Secretariat will coordinate and intimate the host as well as date and venue of the next meeting in due course.

PART-D: ITEMS DISCUSSED in 55th TCC MEETING AND NOT REFERRED TO ERPC

D.1. Items for follow up decisions of previous TCC & ERPC Meeting

a) Provision for Reliable Power Evacuation from NKSTPP

Vide 227th OCC dated 26.05.25: Presently, only the 400 KV D/C Chandwa line is available for power evacuation from NKSTPP, as the 400 KV NKSTPP–Gaya D/C line is still under construction.

- As per the system study conducted by ERLDC for power evacuation, in the scenario where all three units at NKSTPP are operational, stable operation is possible only up to 1700 MW in the event of a trip or shutdown of one circuit of the 400 kV D/C Chandwa line.
- The second evacuation corridor i.e. the 400 kV NKSTPP–Gaya D/C line, is under construction and is being expedited by M/s NKTL.

Deliberation in the 54th TCC meeting:

- NTPC updated that 5 foundations and 20 tower erections are yet to be completed and the work is expected to be completed by Dec, 2025.
- TCC opined that in case of delaying in bring the line into operation, such project could attract Commercial implication on NKTL.
- Since there was no representative from NKTL, the forum advised ERPC Secretariat to issue a letter to NKTL for regular updation of the status of the transmission line and requested all the concern utilities viz. Jharkhand & Bihar to facilitate for addressing issues regarding RoW & forest clearance.

In 230th OCC Meeting, NTPC updated that in Jharkhand portion foundation work of 205 out of 207 towers and stringing work in 15 KM out of 71 KM is finished and in the Bihar portion, the work is almost complete.

As per latest information received from NKTL, Construction of 400 kV NKSTPP–Gaya D/C line has been completed but due to some pending issues at NTPC & PowerGrid end line could not be charged. (Annexure B.2.1.b)

NKTL may update. Members may discuss.

Deliberation in TCC meeting

Powergrid replied that bay at their(Gaya) end was charged in 2019 & only jumper connection to the line was pending which has also been completed. They are ready for charging of the line.

NTPC informed that the delay at their end (NKSTPP) was due to pending relay & CB testing. They submitted that the all the pending works will be completed positively by end of Dec-25.

- *TCC raised concern over the delay on the part of NTPC and opined that the line being important for evacuation of NKSTPP power, NTPC should have completed the work expeditiously.*
- *TCC suggested that the line may be idle charged from Gaya end till NKSTPP side is ready for charging and advised NKTL to approach ERLDC in this regard.*

b) IB Valley TPS Islanding Scheme: OPTCL

IB valley TPS Islanding scheme has also been put on hold for long time. The status regarding the same has been sought on urgent basis by Ministry of Power (Govt of India). 229th OCC Decision:

- OCC advised ERLDC to conduct the dynamic studies of the OPGC network at the earliest in association with SLDC Odisha and OPGC.
- OCC advised OPTCL to prepare the DPR after the completion of dynamic studies. ERLDC has done dynamic study of the proposed islanding scheme, and one online meeting was arranged on 19.08.25 to discuss about the study result, where SLDC Odisha, OPGC (IB Thermal) & OPTCL were present.

In 233rd OCC Meeting,

OPTCL updated that DPR i.r.o IB Valley TPS Islanding Scheme is not yet prepared and the proposed scheme is under review of Director, OPTCL.

- OCC took a serious note on slow progress in implementation of IB Valley TPS Islanding Scheme since this scheme has been pursued by ERPC since last five months.
- OCC advised OPTCL to highlight the importance of IB Valley TPS Islanding Scheme at the appropriate level and revert back within fortnight of December and the matter is referred to TCC for detailed deliberations.

SLDC, Odisha may update. Members may discuss.

Deliberation in TCC meeting

Director(Op), OPTCL stated that they need a clarification regarding load quantum required for islanding operation and as per their assessment load of 140-160 MW can be arranged at Budhipadar end for islanding operation.

OPGC representative replied that minimum load of 150 MW is required for islanding operation with one unit of IB TPS.

- *After deliberation, it was finalized that the scheme will be implemented with minimum load quantum of 140 MW at Budhipadar along with one unit of IB TPS generation.*
- *TCC pointed out the inordinate delay in implementing the scheme and opined that OPTCL & OPGC shall take necessary steps to implement the scheme within six months.*

c) Intrastate Transmission Network Assessment & Mitigation-Odisha

As deliberated in 231st OCC meeting held on 22.09.2025, OPTCL and SLDC Odisha were directed to submit actions taken report i.r.o. near miss event in Odisha on 12th August 2025 and constitute the committee as recommended earlier, comprising of members of ERPC, ERLDC, SLDC, & OPTCL to review the protection settings and the short-term/long-term measures as suggested by ERLDC.

OCC also advised SLDC Odisha to obtain approval from appropriate authority for implementation of UVLS scheme proposed for safeguarding the load of capital city and nearby areas from cascaded failure.

In 232nd OCC meeting,

OCC advised Odisha SLDC to obtain approval from the appropriate authorities for the implementation of the UVLS scheme so that the proposed scheme may be implemented at the earliest.

Update:

The action taken report is yet to be received from OPTCL and SLDC Odisha. Any communication related to approval from appropriate authority is yet to be received from SLDC.

In 233rd OCC Meeting,

OPTCL informed that UVLS scheme is still purview of their higher management and if any progress is made, the same shall be communicated to ERPC/ERLDC.

- OCC took a serious note on the inordinate delay in decision making in the implementation of UVLS scheme as a contingency measure, considering the growing demand and increased congestion in the Odisha system.
- OCC further advised OPTCL to pursue the issue with their higher management with utmost priority and the matter was referred to TCC for detailed deliberations.

OPTCL & Odisha SLDC may update. Members may discuss.

Deliberation in TCC meeting

Director (SLDC), Odisha intimated that loads have been identified by their DISCOMs and the details of the scheme will be shared with ERPC/ERLDC shortly. He further stated that the scheme will be implemented before onset of summer.

d) Intrastate Transmission Network Assessment & Mitigation – West Bengal

Modification of Existing SPS Scheme at Subhasgram (PG) with Undervoltage Logic

ERLDC Proposed modification of existing SPS at Subhasgram (PG) to include undervoltage logic with time delay to prevent voltage collapse. OCC advised SLDC, West Bengal, WBSEDCL and CESC to meet after puja for discussing the proposed modified SPS scheme at Subhasgram and share the outcome in next OCC.

232nd OCC decision:

State-level meeting already done by SLDC as updated in 232nd OCC meeting.

OCC advised WBSLDC to finalize the UVLS scheme by carrying out a joint study and present the same in the next OCC.

In 233rd OCC meeting,

WBSLDC updated that joint study meeting is yet to be conducted with CESC & WBSEDCL and the same shall be duly shared with ERPC & ERLDC.

Latest update:

A physical meeting was held at POWERGRID ER-II RHQ on 08.12.2025 to discuss the modification of the existing SPS at Subhasgram (PG) by incorporating an under-voltage logic with time delay to prevent voltage collapse in and around the South Bengal network of West Bengal. Representatives from WB SLDC, CESC, WBSEDCL, POWERGRID, and ERLDC attended the meeting.

It was agreed that 200 MW of the 350 MW load presently under the existing SPS at Subhasgram (PG) will be integrated into the under-voltage load relief scheme as Stage-1. Provision for an additional 150 MW load as Stage-2 will be kept for future incorporation, based on actual system conditions during the upcoming summer.

It was further deliberated that the revised SPS scheme shall be implemented only after commissioning of the 6th ICT at Subhasgram (PG), which is currently under the commissioning stage and is tentatively expected to be completed between 15–25 January 2026

WBSLDC may update. Members may discuss.

Deliberation in TCC meeting

ERLDC representative updated that a meeting was held among WBSLDC, WBSEDCL, CESC, Powergrid & ERLDC on 08.12.2025 wherein it was decided that load of 200 MW will be shed whenever the voltage will go below 370 kV with 5 sec delay. Powergrid representative stated that the scheme will be implemented shortly in consultation with CESC.

TCC noted.

e) Upgradation of 220kV Network in Kolkata Region: WBSETCL

Vide 217th OCC dated 24.07.24 Due to persistent N-1 violation, Upgradation of these 220 KV feeders to be planned:

- 220kV Subhasgram (WB)-Lakshmikantpur D/C
- 220 kV Jeerat-Barasat D/C
- 220 kV Barasat-Kasba D/C

In 229th OCC Meeting, WBSETCL updated that the approval for PSDF grant has not yet been received.

They also apprised that only the following lines have been listed for upgradation.

- ✓ 220 kV Jeerat-Barasat D/C
- ✓ 220 kV Barasat-Kasba D/C
- ✓ 220 kV Subhasgram-Kasba
- ✓ 220KV Kolaghat-Foodpark
- ✓ 220KV Foodpark-Jangalpur

OCC advised WBSETCL to expedite the upgradation work of above lines since it has already been delayed by more than 2 years and in case PSDF grant is not possible then other avenues of funding maybe explored since the loading of the above lines are going to be critical in the coming summer months.

WBSETCL may update. Members may discuss.

Deliberation in TCC meeting

WBSETCL updated that tender has been done for upgradation of following lines:

- ✓ 220 kV Barasat-Kasba D/C
- ✓ 220 kV Subhasgram-Kasba D/C
- ✓ 220 kV Rajarhat-KLC S/C

For remaining lines, the upgradation work will be taken up progressively as per the system requirement.

They updated that the tentative timeline to complete the upgradation work of above three lines is 9(nine) months.

f) Review of AUFLS in Eastern Region: SCADA Integration & Data Updation: ERPC

Based on the recommendation and decisions in 14th NPC meeting held on 05.02.24, 214th OCC meeting and special meeting on 10.07.2024, a load relief quantum of 6916MW was finalized for Eastern Region. UFR Feeders real time monitoring has been discussed in NPC as well as various I of ERPC.

Further, with new IEGC 2023 the same has been mandated as quoted below: IEGC 2023, Clause 13.d: "SLDC shall ensure that telemetered data of feeders (MW power flow in real time and circuit breaker status) on which UFR and df/dt relays are installed is available at its control centre. SLDC shall monitor the combined load in MW of these feeders at all times.

SLDC shall share the above data with the respective RLDC in real time and submit a monthly exception report to the respective RPC. RLDC shall inform SLDCs as well as the concerned RPC on a quarterly basis, durations during the quarter when the combined load in MW of these feeders was below the level considered while designing the UFR scheme by the RPC. SLDC shall take corrective measures within a reasonable period and inform the respective RLDC and RPC, failing which suitable action may be initiated by the respective RPC."

The UFR integration work is pending with Bihar, Jharkhand & Sikkim. Besides, the SCADA integration and data availability of the UFR feeders is very low and needs immediate attention by the states. I.r.o significance of healthy AUFLS, it is pertinent to mention that grid frequency had dipped to 49.42 Hz (on verge of stage-I of AUFLS) due to sustained overdrawl by some ER states. A list is prepared highlighting present status of UFR feeders and presented below:

Constituent	Stage	Quantum Approved in MW	Quantum Installed in MW	Installation Pending MW
JUSNL	Stage 1	87	87	0
	Stage 2	105	111	-6
	Stage 3	122	98	24
	Stage 4	122	10	112
	Total	436	307	129
BSPTCL	Stage 1	315	304	11
	Stage 2	379	373	6
	Stage 3	442	384	58
	Stage 4	442	406	36
	Total	1578	1467	111
ODISHA	Stage 1	306	316	-10
	Stage 2	367	354	13
	Stage 3	428	334	94
	Stage 4	428	364	64

	Total	1529	1368	161
West Bengal (WBSEDCL)	Stage 1	377	440	-63
	Stage 2	457	434	23
	Stage 3	536	552	-16
	Stage 4	536	555	-18.5
West Bengal (CESC)	Stage 1	120	120	0
	Stage 2	140	140	0
	Stage 3	160	160	0
	Stage 4	160	160	0
	Total	2486	2561	
DVC	Stage 1	172	173	-1
	Stage 2	207	209	-2
	Stage 3	241	242	-1
	Stage 4	241	239	2
	Total	861	864	
Sikkim	Stage 1	5	0	5
	Stage 2	6	0	6
	Stage 3	7	0	7
	Stage 4	7	0	7
	Total	25	0	25
TOTAL		6915	6565	350

All STUs are also requested to update UFR testing & SCADA Integration status.

Deliberation in TCC meeting

JUSNL updated that identification of feeders for stage- 4 of AUFLS will be completed within a month and shall be implemented thereafter.

SLDC Odisha updated that the feeder identification and implementation of UFR for balance quantum would be completed within 3 months.

TCC advised Jharkhand, Odisha, Bihar & Sikkim to implement the balance quantum of load under AUFLS at the earliest.

MS, ERPC suggested that the utility wise SCADA integration status for feeders under AUFLS shall be monitored in OCC forum.

g) Replacement of CLR insulators of PMJTL lines: ERPC

In 229th OCC meeting, Powergrid submitted:

- Insulator failure in the 400 kV line is mainly due to insulator flashover and in the 765 kV line due to breakdown of insulator FRP rod.
- Following is the breakup of insulators installed in the PMJTL line:

kV	Insulators	Decan insulators	Identified defective Decan insulators	Defective insulator replaced
765	58092	17795	1082	1044
400	16162	10273	3619	3500
Total	74254	28068	4701	4544

- Long term planning: Replacement of balance Decan insulators (excluding the already replaced and identified defective ones) will be completed by Feb'26 for 400 kV lines and by Oct'26 for 765 kV lines.
 - OCC took a serious note of the repeated failures of CLR insulators in the above-mentioned lines jeopardizing the critical power corridor of Kolkata.
 - OCC advised Powergrid that Deccan make insulators being installed as replacement may be tested by any certified testing agency like CPRI to ensure its reliability and the testing certificate maybe shared with ERPC.

PMJTL/Powergrid may update. Member may discuss.

Deliberation in TCC meeting

Powergrid reiterated that the replacement of balance insulators for 400 kV lines will be completed before summer of 2026.

SLDC, WB suggested that insulator replacement in railway crossings for 765 kV lines may be completed before commencement of summer as it would be difficult to allow emergency shutdowns during the summer. Powergrid agreed with SLDC WB and stated that they would submit the detailed action plan for replacement of insulators in strategic locations of 765 kV lines.

h) Additional Items for follow up

Sl No	Issues	Decision taken in ERPC			
1	Spare Reactor procurement under Eastern Regional Pool as per CEA norms	In 52nd ERPC meeting, estimated expenditure of Rs. 55.67 Crores (exclusive of GST but including transportation cost) was concurred towards procurement of spare reactors in ER pool by Powergrid ER-II as per CEA spare norms.			
STATE		VOLTAGE	SIZE	STORAGE PLACE	
WEST BENGAL		400 KV	125 MVAR	DURGAPUR SS	
	80 MVAR		BINAGURI SS		

		<table border="1"> <tr> <td>SIKKIM</td> <td>220 KV</td> <td>31.5 MVAR</td> <td>NEW MELLI SS</td> </tr> <tr> <td>JHARKHAND</td> <td>400 KV</td> <td>125 MVAR</td> <td>NEW RANCHI SS</td> </tr> <tr> <td>ODHISSA</td> <td>400 KV</td> <td>63 MVAR</td> <td>ROURKELLA SS</td> </tr> </table> <p>In 53rd TCC Meeting, Powergrid updated that</p> <ul style="list-style-type: none"> ▪ Cost estimate towards procurement of approved spare reactors of different capacity has been prepared and proposal is under approval. ▪ LOA is expected by May'25. <p>In 54th TCC meeting, Powergrid intimated that the tender evaluation is on progress.</p> <p><u>Deliberation in TCC meeting</u></p> <p><i>POWERGRID updated that tender has been awarded for the reactors except 31.5 MVAR reactor. Since the 31.5 MVAR reactor is seldom used at present, hence they have segregated it from the rest of the population and it will be done separately.</i></p>	SIKKIM	220 KV	31.5 MVAR	NEW MELLI SS	JHARKHAND	400 KV	125 MVAR	NEW RANCHI SS	ODHISSA	400 KV	63 MVAR	ROURKELLA SS
SIKKIM	220 KV	31.5 MVAR	NEW MELLI SS											
JHARKHAND	400 KV	125 MVAR	NEW RANCHI SS											
ODHISSA	400 KV	63 MVAR	ROURKELLA SS											
5	Status of DTL for Ind Barath TPP	<p>In 228th OCC meeting during discussion of challenges in intra-state network in Odisha system, Odisha representative highlighted the delay in DTL of Ind-Barath TPP and advised for early completion of the line. JSWEUL may update the present status.</p> <p>In 54th TCC meeting, JSW informed that the original proposal of 4 towers has been modified to one having 12 towers due to objections from MCL. The revised proposal has been agreed upon by MCL and is forwarded to Ministry of Coal for approval. Once approval will be granted, JSW has assured that the construction of the transmission line will be completed within 3 to 4 months.</p> <p>TCC advised JSW for expediting the construction of the transmission line and has referred the matter to ERPC for information. IBEUL may update. Members may discuss.</p> <p><u>Deliberation in TCC meeting</u></p> <p><i>It was informed that a meeting has been convened in this regard under chairmanship of Chairperson, CEA and next course of action would be decided based on the outcome of the meeting.</i></p>												
6	Restoration of 220KV FSTPP-	<p>The line is out of service since long due to tower collapse. Presently 220 kV Farakka-Lalmatia line is charged(from loc no 241 to loc 84) at 132 kV voltage level for anti-theft purpose by</p>												

	LALMATIA-I	<p>tapping at loc. No. 100-101. JUSNL may update. <u>Deliberation in TCC meeting</u></p> <p><i>JUSNL updated that tower no 1 to 18 falls under West Bengal area out of these, foundation of tower 1 to 12 are pending due to local issues. They have taken up the matter with concerned District Administrations of West Bengal. TCC advised WBSETCL to extend all support to JUSNL in this regard.</i></p>
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D.2. Reconductoring of 400KV Talcher-Meramundali and 400KV Farakka-Kahalgaon D/C

400kV Farakka-Kahalgaon D/C and 400kV Talcher-Meramundali D/C transmission corridors are critical for power import to West Bengal and Odisha, respectively. During recent summers, these lines have experienced high power flows nearing their thermal limits. To address this, reconductoring with HTLS conductors has been approved under ERES-43 scheme with SCOD of 02.03.2026.

POWERGRID has been entrusted with executing this reconductoring work under RTM. As demand remains lower between November and February due to favourable weather condition, it was discussed that the reconductoring work for both lines need to be completed by February 2026 to ensure reliable power supply.

In 233rd OCC Meeting:

Reconductoring of 400KV Talcher-Meramundali D/C

ERLDC informed that a special meeting was convened on 18th Nov 2025 via online mode (MS Teams) to discuss reconductoring plan of 400kV Talcher-Meramundali D/C. The minutes of the meeting is attached in **Annexure B.2.2.1**

- ERLDC further updated that LILO portion of Talcher-Meramundali Ckt-2 (17.158 KM) has already been taken under shutdown from 21st November 2025 by PG Odisha.
- POWERGRID informed that reconductoring of 400KV Talcher-Meramundali#1 will commence from 21st Dec 2025 after completion of ongoing reconductoring of LILO portion and it is expected that reconductoring of the said line will be completed by end of January 2026.
- OCC advised POWERGRID to complete the reconductoring of LILO part by 20th Dec'25 and instructed to start the work of 400KV Talcher-Meramundali circuit-1 from 21st Dec 2025 and complete by 5th Feb'26 and strictly adhere to the agreed time lines.
- OCC also advised POWERGRID to submit progress report on weekly basis and share all revised supply schedule and execution details to ERPC/ERLDC.

Latest update:

*Weekly progress report shared by PowerGrid is attached in **Annexure B.2.2.2.***

Deliberation in TCC meeting

Powegrid representative informed that the reconductoring work in the LILO portion was delayed by seven days due to RoW issue. The RoW issue has now been resolved and the revised date for completion of the reconductoring work in LILO portion is 15th January 2026.

He further stated that at present two gangs are operating which will be increased to six subsequently.

Powergrid further informed that shutdown for 400KV Talcher-Meramundali#1 would required from 1st Jan'2026 to end of Feb'26 to complete the reconductoring work of this line.

Powergrid informed that there is delay in supply of the materials for bay upgradation as per the approved scheme.

ERLDC stated that upgradation of bay equipment may not be required at this juncture as the present bay equipments can support power flow upto 1100 MW which is sufficient to mitigate the present requirement.

TCC Decision

TCC advised Powergrid to complete the reconductoring work of 400KV Talcher-Meramundali#1 by 15th Feb 2026. L2 schedule and weekly progress report shall be submitted to ERPC/ERLDC by Powergrid.

b) Reconductoring of 400KV Farakka-Kahalgaon D/C

POWERGRID submitted that Line shutdown earlier planned from 20.11.25 could not be taken up due to non-availability of material. Material expected to reach by last week of Nov'25.

➤ PG ER1 also informed that outage 400KV Farakka-Kahalgaon#1 required for 2 months starting 1st week of Dec'25 and Circuit#2 outage required for 2 months after completion of Circuit#1.

➤ ERLDC apprised that a special meeting was convened on 18th November 2025 via online mode to discuss reconductoring plan of 400KV Farakka-Kahalgaon D/C involving stakeholders from NTPC, PGCIL, ERLDC & ERPC. The MoM of the meeting is attached in **Annexure B.2.2.3.**

➤ OCC advised POWERGRID to strictly adhere to the said timeline and complete the reconductoring of at least one circuit before February 2026 with simultaneous upgradation of bay equipment at both ends in coordination with NTPC.

PowerGrid may update. Members may discuss.

Deliberation in TCC meeting

Powergrid updated that reconductoring of 400KV Farakka-Kahalgaon#1 will be completed by Feb'26 and for circuit #2, the work will be completed by June'26. Powergrid was advised to submit L2 schedule and weekly progress report to ERPC/ERLDC.

D.3. A review of the Flue Gas Desulfurization (FGD) installation, in consultation with beneficiaries, is required for ongoing and operational Category 'C' thermal power projects of NTPC: GRIDCO

It is to mention that MoEF &CC has notified Environment (protection) Rules on 11.07.2025 wherein applicability of SO2 emission standards in thermal power plants has been revised based on their location/category. As per the above amendment, Sulphur dioxide emission standards shall not be applicable to all Category C thermal power plants subject to ensuring

compliance of stack height criteria notified vide notification number GSR 742 (E) dated 30th August 1990.

As understood CEA vide letter dtd 20.08.2025 intimated all RPCs that the generating utilities would be required to review the FGD installation in consultation with Discoms at the ongoing projects at Category C TPPs.

In the said letter, CEA referred a meeting that was held with GENCOs on 18.07.2025 and with vendors on 08.08.2025 with a request to RPCs to convene a special TCC/RPC meeting at the earliest and deliberate the matter and various proposals furnished by CEA (**Annexure-B.2.9.1**).

Further, as per the minutes of the meeting Dtd 25.07.2025, the generating companies were advised to discuss various aspects with the beneficiary Discoms their willingness to have FGD installed and pay for the cost attributable to FGD (CAPEX+OP-EX) or stop the project and pay the fixed cost (CAPEX) incurred so far (**Annexure-B.2.9.2**).

In this regard this is to be mentioned that, Darlipalli STPS of NTPC is coming under category 'C' as per MOEF Notification dtd 11.07.2025. FGD has been already installed and commissioned from 01.07.2024 for unit#2 and 27.01.2025 for unit#1.

NTPC has been raising bills approx. **1.5 Crs/month to 1.8 Crs/month** towards secondary energy charges (OP-EX) as Odisha has 50% allocation from the said project. Hence, GRIDCO vide letter dtd 02.09.2025 requested NTPC for discontinuation of supplementary energy charge (ECS) towards FGD for Darlipalli STPS to which NTPC replied that "FGD system has been declared Commercial Operation in accordance with the provision of CERC Tariff Regulation 2019, and the bills of supplementary variable charges are also being raised accordingly to all the constituent beneficiaries of the station. The matter is being looked into by concerned statutory authorities and any decision and subsequent direction issued in such cases will be duly complied by NTPC."

In view of the exemption for Category 'C' TPPs from SO₂, standards GRIDCO raises the following points for discussion:

- 1. Discontinuation of FGD Operation:** NTPC is requested to **stop the operation of the FGD system** at Darlipali STPS, as it is no longer mandatory under the revised MoEF&CC notification.
- 2. Assessment and Financial Justification:** NTPC should furnish the **project-wise status of FGD implementation** for all its generating stations in the Eastern Region. Furthermore, a detailed financial assessment must be conducted to compare the cost benefit of operating **with FGD** versus **without FGD**, ensuring beneficiaries are not burdened with unnecessary CAPEX and OP-EX.

GRIDCO may explain. Members may discuss.

Deliberation in TCC meeting

GRIDCO stated that NTPC must immediately discontinue the operation of the FGD system at Darlipalli STPS, in strict compliance with the MoEF&CC Environment (Protection) Rules dated 11.07.2025. Such unilateral operation of FGD by NTPC Darlipalli is imposing an

unjustified financial burden on GRIDCO, amounting to approximately ₹1.5 crore to ₹1.8 crore per month towards operational expenses.

WBSEDCL agreed with the submission of GRIDCO and stated that NTPC should discontinue the operation of the FGD system at Darlipalli STPS.

NTPC submitted that the FGD system has been declared under Commercial Operation in accordance with the provisions of the CERC Tariff Regulations, 2019, and that continued operation of the FGD system is in compliance with the said Regulations.

TCC Decision

TCC noted that Darlipalli STPS falls under Category 'C' thermal power plant. As per latest categorisation of TPPs by MoEF&CC, the plants fall under category 'C' are not required to install FGDs. Further, as per the minutes of meeting held on 12.12.2025 chaired by Secretary, Power GoI, for TPPs which have already installed FGD, the future course may be mutually decided by respective stakeholders.

TCC advised NTPC to obtain consent of all beneficiaries for operation of the FGD system at NTPC Darlipalli STPS at the earliest and the pros & cons of running the FGD may be analyzed at OCC forum.

D.4. Request for Provision of Coal Invoices to Assess the Impact of GST Structure Revision & Verification of Fuel Parameters: GRIDCO

The GST Council, during its 56th Meeting, revised the tax structure applicable to coal, changing it from GST @ 5% plus a Compensation Cess of ₹400 per Metric Tonne (MT) to GST @ 18% with no Compensation Cess, effective from September 22, 2025.

To accurately assess the financial implications of this significant tax revision on energy costs, **coal invoices are essential**. We note that while other thermal generators in Odisha (such as OPGC, GMR, and Vedanta) are providing these invoices, which facilitates the necessary impact computation, NTPC has not been providing them along with the monthly energy bills.

The beneficiaries require the detailed coal invoices from NTPC for the following critical purposes:

- 1. Computation of Revised GST Impact:** To precisely calculate the change in input tax credit (ITC) and the overall cost structure due to the shift from the cess-inclusive model to the 18% GST model.
- 2. Verification of Fuel Parameters:** To verify key parameters, including **Gross Calorific Value (GCV)**, fuel price, and the details of any related credit or debit note adjustments, which are necessary for the accurate scrutiny of the energy bills.

Accordingly, NTPC is formally requested to provide the detailed **coal invoices** to all beneficiaries consistently, accompanying the monthly energy bills.

GRIDCO may update. Members may discuss.

Deliberation in TCC meeting

GRIDCO stated that despite repeated and documented requests, NTPC has failed to furnish coal invoices, thereby preventing verification of the actual cost incurred towards coal procurement, including statutory taxes, transportation charges and other incidental expenses. Non-submission of coal invoices also impedes mandatory reconciliation with Form-15 at their end.

WBSEDCL stated that beneficiaries have an inherent and enforceable right to demand coal invoices, as the entire fuel cost is ultimately borne by the beneficiaries through tariff payments to NTPC.

NTPC agreed to provide all relevant coal invoices as required by GRIDCO.

TCC noted.

D.5. Status of spare Transformer/ICT in Eastern Region: ERPC Secretariat

As per CEA guidelines for availability of spares and inventories for power transmission system (transmission lines & substation/switchyard) assets, adequate cold spare for ICTs has to be maintained at regional as well as state level.

Key guidelines for determining spare as per the guidelines are provided below:

- **Regional level spare:** For regional power utilities (POWERGRID & Transmission licensees), the spare at regional level would be required for these assets. These spares should be increased, optimized and limited to double the quantities mentioned for State Level based on transmission line assets in that region in order to avoid unnecessary storage of inventories. (**Annexure B.2.7**)
- **State level spare:** The spares at 'State level' can be maintained at a centralized location which could be conveniently accessed to meet the emergency requirement of various substations/switchyards spread across the State.
 - **Requirement of state level:** ICT and Shunt Reactor: One number single phase/three phase unit of each rating, as applicable
 - **Utility for State level spare:** If there are five or more substations/switchyards (of same voltage class) of a utility in a State, the 'State Level' spares shall be maintained by the utility.
 - **Replenishment of Consumed spare:** Replenishment of the consumed mandatory spares shall be made at the earliest but in any case, not later than six months from the date of its consumption depending on the criticality of equipment component/material.

With a significant rise in state demands and regional demand along with the number of ICTs, it would be desirable to have an adequate spare to improve reliability and resilience in case of any exigency. Recently, a substantial delay in restoration of damaged ICTs in eastern region has been observed. Thus, maintaining adequate regional and state level cold spare is important.

In 54th TCC Meeting,

Powergrid ER-II intimated that as per CEA guidelines for maintaining spare, one number of spares is mandated for each element with population less than 20 for a particular utility. If the population of such element is more than 20, utility make decision on maintaining more than one spare.

➤ Director (Op), OPTCL opined that when n-1 criteria is satisfied for the ICTs for all individual stations of a utility, there is no need of maintaining a separate cold spare. III.

- Director (Op), WBSETCL opined that ICT being the most valuable item should not be a kept as cold spare instead it must be maintained as hot spare, ready to deploy.
- CTU representative informed that in the present scenario Transformer manufacturing & delivery timelines are significantly long which poses a challenge in procurement of a new transformer in an event of transformer failure.
- TCC advised state transmission utilities to maintain spare transformer/ICT as per CEA guidelines. TCC observed that it would be prudent in view of applicability of interstate GST for transportation of ICT.
- TCC opined that while planning augmentation of transformation capacity, transformers which have completed their significant life may be converted to cold spare and new ICT may be installed in place of the old one. In this way the financial burden on maintaining the spare can be minimized.

Members may update. TCC may discuss.

Deliberation in TCC meeting

Powergrid representative informed that as per CEA guidelines adequate cold spare for ICTs has to be maintained at regional as well as state level. He added that the existing fleet of transformers of ER are considerably old and therefore sufficient spare management is required to ensure reliable power supply.

Director(Op), OPTCL informed that they are assessing their spare requirements based on following factors:

- *n-1 criteria at each substation*
- *Projected load growth*
- *Standardization of transformers as per CEA guidelines*
- *RLA of the existing transformers*

WBSETCL suggested that an SOP may be formulated for assessment of spare requirement of the region.

TCC Decision

TCC advised Powergrid to reassess the spare requirement at ISTS level and submit it to ERPC secretariat for further deliberation in OCC meeting.

TCC opined that an SOP for evaluation of spare requirement at state level may be formulated taking into consideration the factors adopted by OPTCL.

D.6. Review of JUSNL's SAMAST implementation and readiness for commencement of PVUNL scheduling along with development of intrastate DSM and settlement mechanisms: ERPC

As per the directions of Hon'ble CERC in Petition No. 658/MP/2025, ERLDC commenced scheduling of Patratu Stage-1 w.e.f. 05.11.2025 upon COD of Unit-1 and in accordance with the share allocation issued by ERPC. In line with the deliberations of the 229th OCC Meeting

held on 25th July 2025, JUSNL is required to take over the scheduling of PVUNL units from January 2026 subsequent to the completion of SAMAST implementation.

In 233rd OCC Meeting:

JUSNL informed that SAMAST scheme is under implementation and it's expected to be completed by December 2025. Thereafter scheduling of PVUNL shall be taken up by SLDC, Ranchi.

- ERLDC apprised that for billing and settlement of account, an intrastate DSM mechanism and pool account needs to be developed by JUSNL.
- OCC advised JUSNL to expedite the SAMAST implementation and complete within Dec 2025 so that scheduling of PVUNL shall be commenced by JUSNL from 1st Jan 2025 as per the direction of CERC.
- OCC also advised SLDC, Ranchi to highlight the need of DSM Mechanism and Pool account for settlement and billing to the higher management and simultaneously take up the matter with SERC for implementation of the same.
- OCC referred the matter to TCC for further deliberation. OCC noted the modalities of scheduling and accounting of Patratu Stage-1 highlighted by ERLDC.

JUSNL may update. Members may discuss.

Deliberation in TCC meeting

JUSNL updated that they have filed petition to CERC for extension of the scheduling of PVUNL by ERLDC till June 2026 for which the hearing is scheduled on 19th Dec'25.

TCC noted.

D.7. Submission of Protection Audit Plan & Audit Reports: ERPC

The Clause (5) of Regulation 15 of IEGC Regulations, 2023 envisages as below:
Quote

(3) All users shall conduct internal audit of their protection systems annually, and any shortcomings identified shall be rectified and informed to their respective RPC. The audit report along with action plan for rectification of deficiencies detected, if any, shall be shared with respective RPC for users connected at 220 kV and above (132 kV and above in NER).

(4) All users shall also conduct third party protection audit of each substation at 220 kV and above (132 kV and above in NER) once in five years or earlier as advised by the respective RPC.

.....

(5) Annual audit plan for the next financial year shall be submitted by the users to their respective RPC by 31st October. The users shall adhere to the annual audit plan and report compliance of the same to their respective RPC.

Unquote

A. Internal Audit

SI No.	Utility Name	Audit Plan for FY 2024-25	Audit Report for FY 2024-25	Audit Plan for	Audit Plan for FY
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				FY 2025- 26	2026- 27
1	PG-ER-1 & PMTL	Received	Not Received	Received	Not Received
2	PG-ER-2	Received	Not Received	Received	Received
3	PG- Odisha	Received	Not Received	Not Received	Not Received
4	WBSETCL	Received	Received	Received	Received
5	BSPTCL	Received	Not Received	Not Received	Not Received
6	OPTCL	Received	Not Received	Not Received	Not Received
7	DVC	Received	Not Received	Not Received	Not Received
8	JUSNL	Received	Received	Received	Not Received
9	OPGC	Not Received	Not Received	Not Received	Not Received
10	OHPC	Not Received	Not Received	Not Received	Not Received
11	CESC	Received	Not Received	Received	Not Received
12	NHPC	Received	Not Received	Received	Not Received
13	DMTCL	Received	Received	Received	Not Received
14	NTPC ER- I	Received	Not Received	Not Received	Not Received
15	NTPC ER- II	Received	Not Received	Not Received	Not Received
16	Tashiding HEP	Received	Received	Received	Received
17	Jorethang HEP	Received	Received	Received	Received
18	MPL	Not Received	Not Received	Not Received	Not Received
19	JITPL	Not Received	Not Received	Not Received	Not Received
20	GMR	Not Received	Not Received	Not Received	Not Received
21	Adhunik	Not Received	Not Received	Not Received	Not Received
22	IBEUL	Not Received	Not Received	Received	Not Received

 Received,  Not Received

B. Third Party Audit

Third party Protection Audit has been completed, and report has been received for 220 kV Tashiding HEP & Jorethang HEP. Audit plan has been received from DMTCL, Dikchu HEP, IBEUL. Apart from this ERPC secretariat has conducted third party audit of seven nos. of critical substations in FY 2025-26.

In 152nd PCC Meeting, ERPC representative updated that that for FY 2024-25, protection audit plan was received from various utilities however audit reports were not received from most of the utilities. For FY 2025-26, protection audit plan (internal and third party) is received from few utilities. The status is given in the table.

JUSNL representative informed that third party protection audit is already in progress at

various S/s.

PCC advised concerned utilities to share the requisite information to ERPC secretariat within a week.

Members may update. TCC may discuss.

Deliberation in TCC meeting

ERPC Secretariat representative highlighted the regulatory provision for internal & third-party protection audit of the substations by the utilities. He intimated that audit plan & reports are pending from many of the utilities despite repeated requests in the PCC forum.

TCC Decision

TCC raised serious concern over the non-compliance of the regulatory provisions by the utilities in submitting the protection audit plan & audit reports.

TCC advised all concerned utilities to share protection audit plan along with reports with ERPC at the earliest.

D.8. Implementation of Patna Islanding Scheme under PSDF: SLDC Bihar.

In 54th TCC meeting held on 23.06.2025, BSPTCL had proposed to implement Patna Islanding Scheme through Internal Resource Fund.

However, a meeting was held on 24th June 2025 under the chairmanship of the Hon'ble Minister of Power and Housing & Urban Affairs, wherein the matter of Islanding Patna city was discussed. In the meeting, it was decided that the State of Bihar would submit a proposal for funding the Islanding scheme by the Ministry of Power).

In compliance to minutes of the meeting held on dt. 24.06.2025, Board of Directors, BSPTCL has approved for implementation of Patna Islanding Scheme through PSDF in 131st BOD meeting held on dt. 17.07.2025 vide its resolution no. 131-06.

In line with the above, a proposal has been submitted for Implementation of Patna Islanding Scheme under PSDF to NLDC vide this office letter no. 549 dt. 18.07.2025 along with all the required documents in compliance to minutes of meeting held on dt. 24.06.2025.

Further, Chief Engineer (Generation), CEA has requested the recommendation of ERPC for implementation of Patna Islanding Scheme through PSDF.

In view of this, the Commercial Sub-Committee is requested for kindly examine the matter and place it before the upcoming 55th ERPC meeting scheduled on 16th & 17th December 2025 for obtaining recommendation of ERPC for implementation of the instant project under PSDF.

In 55th CCM meeting,

The issue of Patna Islanding Scheme has been deliberated earlier in various forums. Though it was earlier decided by BSPTCL to implement Patna Islanding Scheme through Internal Resources but on subsequent development on the issue they have now approached the forum for approval for PSDF funding for the same.

➤ Committee referred the above agenda to upcoming 55th TCC & ERPC meetings for their consideration and further decision on the issue.

SLDC Bihar may update. Members may discuss.

Deliberation in TCC meeting

ERPC Secretariat informed that BSPTCL has requested for appraisal report of the islanding scheme in A5 format of PSDF and the same has already been sent to them for onward submission to PSDF.

D.9. Ramping impact on states due to bulk collective purchase by industries: SLDC, Odisha

The SLDC need to take corrective action on injection schedule of State / ISGS to manage the sizeable Collective purchase by industries under RTM / DAM.

As the purchase transaction has no offset of ramping and sudden change of more than 300 / 400 MW Collective purchase are common with respect to previous block.

To maintain the drawl parameter SLDC need to implement downward revision on the injection schedule of Generators. It is important to note here that this downward revision cannot be implemented at a stroke but with ramping which result under drawl / loss of revenue /penalty by the state for which it is not responsible and therefore it need to be compensated by the buying entity of exchange power.

SLDC, Odisha may update. TCC members may discuss.

Deliberation in TCC meeting

TCC observed that regulatory intervention is required to address the issue raised by SLDC Odisha. However, on request of SLDC Odisha, TCC advised ERPC Secretariat to put this agenda in NPC Meeting for guidance.

D.10. CERC 9/SM/2025 order on Resource adequacy: ERLDC

Hon'ble Commission had issued Suo Motu Order in 9/SM/2024 on 07.10.2024 for planning for safe, secure, and reliable integrated operation of the power system during critical periods arising on account of seasonal variations wherein the electricity demand increases. The order was followed by submissions from NLDC, RLDCs and SLDCs, various meetings among CERC, NLDC, RLDCs and SLDCs, State regulators, discoms and the Report of the single member bench under Member (Technical), CERC.

Subsequently, CERC issued the order dated 05.10.2025, emphasizing adequacy of manpower at SLDCs, operational flexibility of thermal generating units up to 55% MTL,

implementation of intra-state AGC, enhancement of forecasting capability, maintenance of reserves, cybersecurity preparedness, and formulation of regulations related to incentives for certified SLDC personnel.

ERLDC presented the key provisions and implementation requirements of the order during the 232nd OCC Meeting held on 24.10.2025. As mentioned in the order dated 05.10.2025, the existing manpower of Eastern Region SLDCs is significantly lower than both the sanctioned strength and the manpower requirements prescribed in the MoP Resource Adequacy Guidelines dated 30th October 2024.

The matter regarding workforce adequacy has been discussed at length in various TCC & ERPC meetings. During the 233rd OCC Meeting held on 21.11.2025, SLDCs again highlighted that insufficient manpower continues to affect critical activities such as operational planning, resource adequacy assessment, real-time system operation, and compliance with Grid Code provisions.

Accordingly, ERLDC has issued letters to SLDCs of Bihar, Jharkhand, Odisha, West Bengal, and Odisha Power Department, stressing the urgent need to strengthen SLDC manpower in line with CERC directions, Ministry of Power guidelines, and ERPC recommendations.

Members may update the status.

Deliberation in TCC meeting

ERLDC highlighted the important aspects of CERC order such as adequacy of manpower at SLDCs, operational flexibility of thermal units up to 55% MTL, implementation of intra state AGC, enhancement of forecasting capabilities, maintenance of reserves, cyber security preparedness, and framing of regulations on incentives for certified SLDC personnel.

- *ED, ERLDC stressed on the requirement of adequate manpower at State SLDCs to discharge various responsibilities of SLDCs.*
- *TCC advised all States to deploy sufficient manpower at respective SLDCs for smooth execution of all entrusted responsibilities.*

D.11. Request to Re-Establish Region-Wise Negotiation with Siemens for a Rational and Uniform PSSE AMC Pricing Framework: WBSLDC

Over the past few years, the software keys for Siemens PSSE were transferred to SLDCs as part of a Power Grid-driven initiative. During the previous renewal cycle, ERLDC had efficiently facilitated a consolidated quotation from M/s Siemens on behalf of all Eastern Region constituents and successfully negotiated a unified, region-wide commercial arrangement. In contrast, for the current cycle, it has been indicated that ERLDC has finalized negotiations with Siemens solely for NLDC and RLDCs, while advising each constituent to independently pursue its commercial discussions with the vendor. The price finalized by Grid India has been circulated for reference.

The revised LOA dated 24.06.25 reflects an escalation of nearly 300% (292%) over the existing AMC value—a level of increase that is difficult to justify within the prevailing economic

landscape, considering current price indices and inflationary parameters. With only four dongles operational within WBSETCL (and similar numbers in other individual TRANSCOs), negotiating effectively with Siemens on a standalone basis becomes disproportionately challenging. The regional aggregation model adopted by ERLDC last time was distinctly more prudent and strategically advantageous, leveraging the collective volume of the entire Eastern Region to secure a more favourable commercial outcome.

In view of these compelling considerations, it is earnestly requested that Grid India re engage with Siemens to pursue a more rational, equitable, and transparent pricing framework, particularly with respect to the annual escalation mechanism. It is also pertinent to emphasize that a common software platform and harmonized system-study database across all ER constituents is inherently beneficial and promotes operational coherence. However, given the present pricing scenario, the Siemens quotation compels WBSLDC to explore alternative solution providers offering system-study tools with more competitive and logically structured commercial terms.

The matter was discussed in 233rd OCC Meeting held on 21.11.2025.

After detailed deliberation OCC advised WBSLDC to explore either of the following two options:

1. Bilaterally take up the cost escalation issue in PSS/E software with M/S Siemens based on the specific features required by WB for carrying out system studies, power system planning etc.
2. explore other alternative software tools which can be used for power system studies which is cost effective as compared to PSS/E software of M/S Siemens.

OCC suggested that CTU may ensure easy accessibility of base case data for comprehensive system study by utilities.

TCC may discuss.

Deliberation in TCC meeting

WBSLDC informed that they have consulted with M/s Siemens for cost revision based on the specific features required by WB for carrying out system studies, power system planning etc however Siemens offered no significant cost reduction.

- *Regarding accessibility of base case data, CTU informed that they can share the base case data with STUs as raw text format.*
- *PRDC representative informed that they can directly use the raw text file of PSS/E in their software without requiring any middleware.*

TCC advised CTU to share the raw (text) file of base case data with West Bengal.

PART-E: ITEMS FOR INFORMATION

E.1. Maintaining reserves and implementation of Automatic Generation Control for balancing and improving the grid frequency profile: NLDC

Secretary (Power), Govt. of India chaired a meeting on 22.10.2025 to discuss the deployment of Battery Energy Storage System (BESS) for Ancillary Services. During the meeting he also reviewed the availability of reserves and participation in ancillary services. Minutes of the meeting are enclosed (**Annexure C.3.1**).

In this regard, attention is invited to the following action point of the minutes:

"SLDCs and Intra-state generating stations shall be pursued to maintain adequate reserves and implement Automatic Generation Control for balancing and improving the grid frequency profile. (Action: GRID-INDIA, RPC, CEA)"

In view of the above it is requested that the matter may kindly be pursued further in the forthcoming RPC / NPC meetings for necessary action and implementation at the state level.

TCC noted.

E.2. Information and Update of Impact of Very Heavy Rainfall and Landslides in Darjeeling District and the Sub-Himalayan Region of 400 kV Teesta III – Kishanganj D/C transmission Line in the month of October 2025: SPTL

Sikkim Power Transmission Limited (formerly Teestavalley Power Transmission Ltd.), (SPTL), a JV of Sikkim Urja Limited & POWERGRID (A Govt. of India Enterprise), was entrusted with the responsibility to construct, operate & maintain the 400 kV Teesta-III- Rangpo- Kishanganj D/C Transmission Line. The 400 kV D/C Teesta-III – Rangpo-Kishanganj transmission line of SPTL is an ISTS line evacuating a major portion of power from HEPs in Sikkim Hydro Generating Complex.

The transmission line of length 215 km (589 towers) passes through Mangan, Gangtok & Namchi District of Sikkim, Darjeeling District of West Bengal and Kishanganj District of Bihar. The line passes through the difficult hilly terrain of altitude in the range of 1000m – 2600m and during monsoon period landslides & soil erosion occur in this range due to geological condition of the Eastern Himalayan Region. Also, the transmission line crosses chenga river in West Bengal & Bihar and Mahananda & Dauk River in Bihar which change their course often. The line was commissioned on 13.02.2019 and is under operation and maintenance since then.

During the 4th and 5th of October 2025, the district of Darjeeling in West Bengal, along with adjoining areas of the sub-Himalayan region, experienced episodes of very heavy to extremely heavy rainfall. The continuous and intense downpour over these two days triggered severe flooding and multiple landslides across the hilly terrain, resulting in significant damage to infrastructure, property, and loss of human lives.

The 400 kV Teesta III – Kishanganj Transmission Line corridor was notably affected due to the occurrence of multiple landslides in and around the tower locations. The observed impacts include:

- Damage to Approach Roads and Bridges: Access routes to several tower sites were washed away or blocked by landslide debris, hampering maintenance and inspection activities.
- Damage to Surrounding Areas: Landslides in proximity to the transmission line caused significant

soil displacement, affecting nearby residential houses and agricultural fields.

- Accumulation of Debris: Considerable accumulation of loose soil, boulders, and vegetation debris was observed around several tower foundations, posing risks to structural stability and accessibility.

SPTL is continuously monitoring the tower locations for any further changes. SPTL is in process to take up protection measures near tower base (construction of Gabion walls, Rope Gabions etc.) near the tower area and for detailed assessment in the transmission line vicinity has been done. The required tower protection measures shall be taken based on the required design and engineering to protect these towers. The major tower protection works to be carried out under additional capital expenditure due to force majeure condition of CERC tariff regulations. The current status is put for information of the forum, and any other changes and protection works taken up will be informed subsequently to the forum.

Photographs of the tower and the eroded slope / riverbank and Newspaper cutting are attached as **Annexure-B.2.11**.

TCC noted.

E.3. Disaster Preparedness of Transmission Infrastructure: Procurement of 20 sets (300 Towers) of Emergency Restoration System under Make in India: POWERGRID

The Ministry of Power (MOP), through its letter No. 34/7/2025-TRANSMISSION dated 11.05.2025, has inter-alia directed POWERGRID to place an order for 20 sets comprising 300 towers of Emergency Restoration System (ERS). This directive follows a high-level meeting chaired by the Secretary (Power) on 10.05.2025, where the decision was finalized.

Subsequently, MOP vide letter ref. No. 34/7/2025-TRANSMISSION (MoP) dated 19.08.2025 has conveyed in-principle approval for procurement of 20 sets (300 towers) ERS under Public Procurement (Preference to Make in India) through Regulated Tariff Mechanism (RTM) to POWERGRID.

POWERGRID is to carry out procurement of 20 sets of ERS towers (300 towers) through emergency procurement process to meet potential requirement in the states. The proposed ERS shall be kept and maintained at suitable locations to meet the requirement of stake holders during contingencies, and the ERS shall be treated as spares under a common pool.

As per preliminary estimation, total expenditure towards said procurement is expected as approximately **Rs 440 Cr. Out of 20 sets of ERS (300 towers) suitable for 400kV Transmission Lines being procured, 4 sets of ERS towers (60 towers) shall be kept in Eastern Region, against which a preliminary expenditure of Rs 88 Cr is expected.**

In view of the above, POWERGRID has planned to procure the proposed ERS and subsequently, approach CERC through tariff petition for cost recovery of the expenditure in terms of the CERC Tariff regulations, 2024.

TCC noted.

E.4. Development of Unified Accounting Software (UAS) for RPCs and NPC

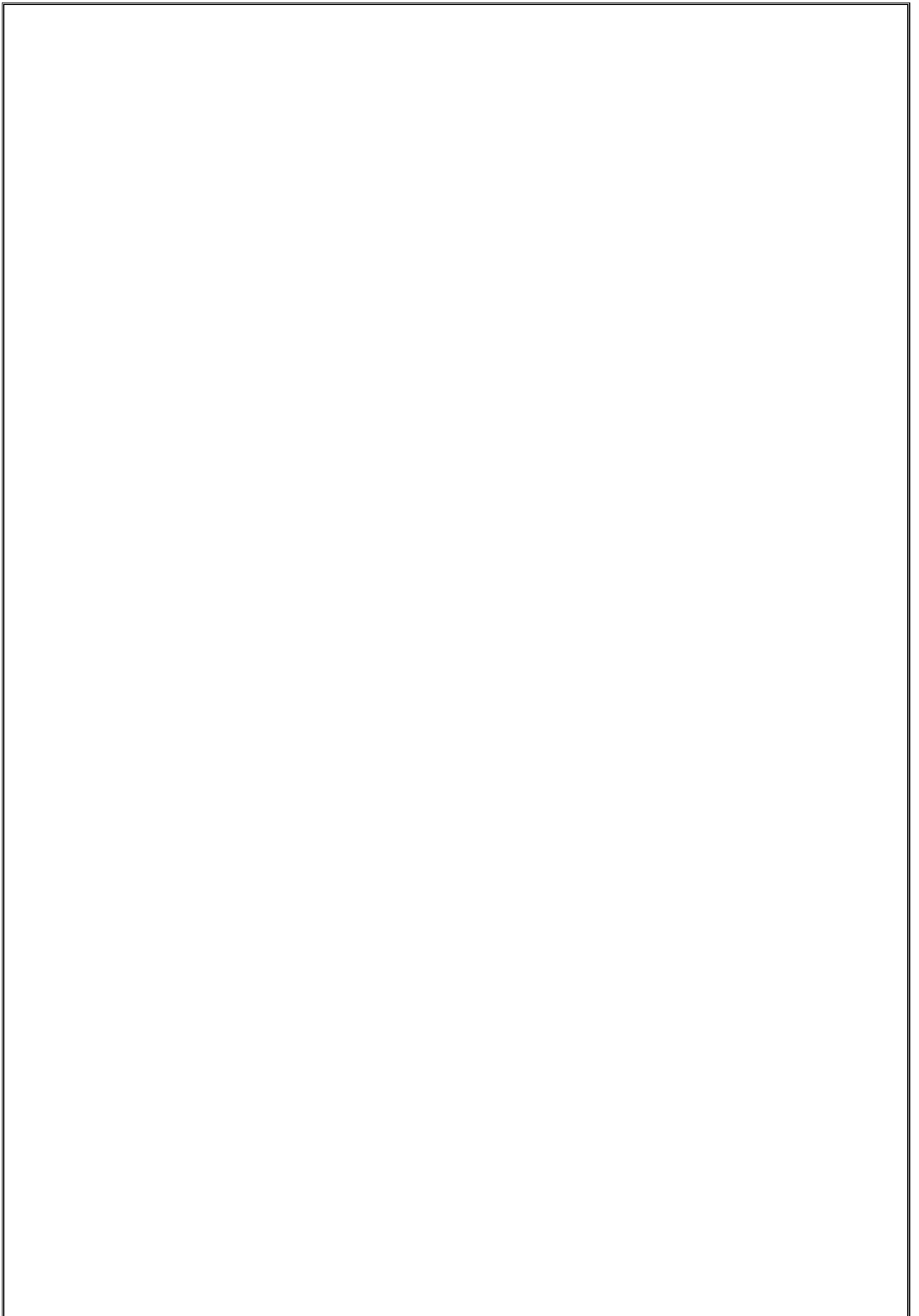
NRPC Secretariat is the nodal RPC for implementation of Unified Accounting Software of RPCs & NPC.

Ministry of Power has sanctioned a PSDF grant of 31.298 ₹ crore (including GST) for the "Development of Unified Accounting Software for RPCs and NPC," covering software

development, warranty, and four years of ETS. It is to note that tender documents have been prepared with a Bill of Quantities (BoQ) that includes some essential items which could not be proposed earlier to PSDF for funding, as these provisions emerged during detailed planning and expert consultations, primarily to strengthen cybersecurity and support long-term software operations. The revised BoQ now includes Web Application Firewalls (2 units), L-2 Access Switches (3 units), Network Attached Storage (1 unit), and Extended Technical Services (ETS) for the 5th and 6th year—items currently not covered under the sanctioned grant.

In the 81st NRPC Meeting, NRPC Secretariat was advised to proceed with the bidding process based on the revised BoQ and the updated project cost estimate of about 36.08 crores. NRPC Secretariat was also advised to approach the PSDF Secretariat to increase the sanction grant to include additional items as per revised BoQ and revised cost estimates as the project is of interest to larger number of utilities.

TCC noted.









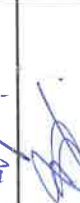









Annexure-A

16/12/2025

55th ERPC TCC Meeting at Kalimpong

Sl. No.	Organisation	Name	Designation	Phone Number	Email Id	Signature
1	BSPHCL	Chandrasekhkar Prasad Burnwal	ESE/PMC	9262398388		Chandrasekhkar
2	BSPHCL	Mid Kalishar Jamal	AAE/PMC	6287042462		- KSL
3	BSPTCL	A.K.Singh	Director (Operation)	9264477220		-
4	CEA	Hemant Jain	Member (GO&D)	9818301995	member.goc@cea.nic.in	(17.12.2025) Done
5	CEA	V K Singh	Member (PS)	9810177609		(17.12.2025) Done
6	CESC	Koushik Banerjee	GM(SO)	9831003281	koushik.banerjee@rpsg.in	16/12
7	CESC	Debarshi De	DGM(SO)	9163312742	debarshi.de@rpsg.in	16/12
8	CTU	Vikas Bagadia	Dy COO	9873549248	vbagadia@powergrid.in	- DVC
9	CTU	Manish Ranjan Keshari	Chief Manager	8826094864		- DVC
10	CTU	Shiv Kumar Gupta	Sr DGM	7007496879		- DVC
11	DANS Energy	Anoop Kr Bhatnagar	COO	8802233223	anoop.bhatnagar@dansenergy.com	(17.12.2025)
12	DPL	Santjay Das	GM(Power & Projects)	9434706493	s.das@dpl.net.in	(17.12.2025)
13	DPL	Biswanath Mukherjee	AGM(EMD & Cnl)	9434709172	b.mukherjee@dpl.net.in	(17.12.2025) Done
14	DVC	Arup Sarkar	Member (Finance)	9425294115		(17.12.2025) Done

15	DVC	S. Srivastava	ED(Commercial)	9433727107			
16	DVC	D.K.Singh	ED(System)	7479008573			
17	DVC SLDC	S.K.Sharma	Sr GM (DVC LDC)	9434539423	sanjay.sharma@dvc.gov.in		
18	ERLDC	Rajib Sutradhar	Executive Director	9436302714			
19	ERLDC	Manas Das	DGM (SO)	9007070925	manasdas@grid-india.in		
20	ERLDC	Chandan Mallick	Chief Manager	9007059660			
21	ERLDC	Gaurav Kumar	AM (MO)	7004754773			
22	ERLDC	Sanjeev Kr. Jha	(SO)	9973338037			
23	ERPC	N S Mondal	Member Secretary	9958389967	mserpc-power@nic.in		
24	ERPC	S Kejriwal	Director	9831919509	shyam.kejriwal@gov.in		
25	ERPC	I K Mehra	Director	9810688789	ikmehra@nic.in		
26	ERPC	B S Ray	Deputy Director	6283175816	bitanray@nic.in		
27	ERPC	P P Jena	Deputy Director	9776198991	ppjena.cea@gov.in		
28	ERPC	Anup Das	Deputy Director	9681214774	anupdas@nic.in		
29	ERPC	S R Swain	Assistant Director				
30	ERPC	D K Khuntia	Assistant Director	7683889161			

31	ERPC	K Saurav	Assistant Director	9113799763	kunalsaurav.cea@gmail.com	
32	ERPC	Kumar Satyam	Assistant Director	7355225072	satyam.24365@gov.in	
33	ERPC & IndiGrid	Control Room				
34	GRIDCO	Girish Tanty	Director (T&BD)	8018043080	dir.trading@gridco.co.in	
35	GRIDCO	Chinnoy Kumar Dash	AGM (Elec)	8763533733	ele.ckdash@gridco.co.in	
36	GRIDCO	Bibhu Prasad Mohapatra	CGM (PP)	9438907954		
37	IndiGrid Limited	Sanil Namboodiripad	COO	7694006538		
38	IndiGrid Limited	Abhay Kumar	VP - Legal	9250008831		
39	IndiGrid Limited	Kundan Kishore	Head - HR	9769211966		
40	IndiGrid Limited	Apoorv Darji	VP -Renewables	8793000873		
41	IndiGrid Limited	Amitanshu Srivastava	VP - Transmission	7771007756		
42	IndiGrid Limited	Venkatprasanth	GM - Planning	9819787646		
43	IndiGrid Limited	Lokendra Singh Ranwat	Head - Regulatory	9311279183		
44	IndiGrid Limited	Dinesh Laha	Regulatory	8918720645		
45	IndiGrid Limited	Sandeep Choudhury	Asset Management	9365622026		
46	IndiGrid Limited	Sanjay Kumar	Administration	9650030188		

47	IndiGrid Limited	Utkam Nath /	Administration	7002122853					
48	IndiGrid Limited	Karan Rai	Regulatory	8400400557					
49	IndiGrid Limited	Dhruvajyoti Sutradhar	Regulatory	7477852660					
50	IndiGrid Limited	Pranav Rathore	Regulatory	9971196496					
51	IndiGrid Limited	Samriddhi Gogoi	Regulatory						
52	IndiGrid Limited	Jit Basu	Regulatory						
53	JPL	Sanjay Mittal	Director	9811314080			sanjay_mittal@jindalgroup.com		
54	JPL	Shubhang Nandan	Vice President	8102699777			head.powersales@jindalgroup.com		
55	JSW	Baliram Ratna Jadav							
56	JSW	Mahendra Malik							
57	JUSNL	K K Verma	MD	7004775151			mdjusnl@gmail.com		
58	JUSNL	Praween Kumar	Director (Project)	8987421011			dir.p.jusnl@gmail.com		
59	JUSNL	M K Karmali	ED (Operation)	8987581081			edoperation@jusnl@gmail.com		
60	JUSNL SLDC Jharkhand	Ashish Kumar	Director (Operation)	9431153726			dir.op.jusnl@gmail.com		
61	JUUNL	Raj Kumar Agarwalla	Director (Finance)	9431123125					
62	JUUNL	Kumud Ranjan Sinha	GM (Technical)	8210263836			cegen@juunl@gmail.com		

63	JUVNL	Kumar Sambhab	DGM (HR) JUVNL	7903702681	dgmhrjuvnl2016@gmail.com	
64	JUVNL	Abhishek Kumar	Sr Manager	9931141270	abhisheksingh.51@gmail.com	
65	MPL	Sudip Kumar Dash	Head - Commercial	9204652869	sudipdash@tatapower.com	
66	NBPDCL	I.C. Yadav	Director (Project)	7763815039	directorprojects.nbpdc@gmail.com	
67	NBPDCL		MD	7763815000		
68	NBPDCL	Nasim Eqbal	Director (Operation)	9264437177	directoroperationnbpdc@gmail.com	
69	NERPC	<u>K B Jagtap</u>	MS	8652776033		
70	NHPC	Lhendup Lepcha	Group General Manager(E)	9800003561	lepcha@nhpc.nic.in	
71	NTPC	D Kar	HOP Farakka	9650990401	hopfarakka@ntpc.co.in	
72	NTPC	Yogesh Kumar Singla	AGM EEMG	9650991627	yogeshsingla@ntpc.co.in	
73	NTPC	Madan Vaishnav	DGM Commercial	9429892138		
74	NTPC	Subodh Kumar Pradhan	GM (Comm)	9437049168		
75	NVVN	Justin Kurian	DGM Business Development	9423042452	JKKURIAN@ntpc.co.in	
76	Odisha SLDC	B B Mehta	Director SLDC	9438907008	dir.slcdc@optcl.co.in	
77	OHPC	Amiya Kumar Mohanty	Director (Operation)	7328840019	akm_678@yahoo.co.in	
78	OHPC	Arjun Kumar Sahu	GM(EI)	7328840281	asahu5226@gmail.com	

79	OHPD	Samir Mahapatra	DGM (EI)	7328840293	samir.mahapatra66@gmail.com	Ganapati
80	OPGC	Kedar Ranjan Pandu	Managing Director	9777808655	md@opgc.co.in	—
81	OPGC	Anjan Ranjan Dash	Director-Operation	7978843754	do@opgc.co.in	Anjan
82	OPGC	Musingha Nath panda	AGM	7852946635	nrusingha.panda@opgc.co.in	—
83	OPGC	Manas Ranjan Mohapatra	Sr. Manager- Electrical	7077743506	manas.mohapatra@opgc.co.in	—
84	OPTCL	Bhaskar Sharma	CMD		cmd@optcl.co.in	—
85	OPTCL	P K Pattanaik	Director (Operation)	9438907492	dir.operation@optcl.co.in	—
86	OPTCL	Santosh Kumar Das	GM (EI)	9438907316	ele.santoshdas@optcl.co.in	—
87	PGCIL	GSR Rao	CGM	9440908906		—
88	PGCIL	K K Prusti	Sr.GM (AM)	8393882717		—
89	PGCIL	Partha Ghosh	DGM	9434748263		—
90	PGCIL	Somnath Nayek	CGM			—
91	PGCIL	VP Srivastava	CGM	9729872367	v.p.srivastava@powergrid.in	—
92	PTC	Manoj Kumar Jhwar	CMD	8319959092	cmdsect@ptcindia.com	—
93	PTC	Bikram Singh	Executive Director	9810626742	bikramsingh@ptcindia.com	—
94	SBPDCL	Manish Kumar	ESE	7763814047		—

95	SHIGA Energy	Vimal Saxena	VP	9811988482	vimal.saxena@dansenergy.com	
96	Sikkim Power Department	Bikash Deokota	PCE Cum Secretary	9434318288	secypower.sikkim@gmail.com	
97	Sikkim Power Department	Sunil Rai	PCE (Transmission)	9933018268	srifog@gmail.com	
98	Sikkim Power Department	Sigratha Pradhan	SE (Trading)	9735055097	sigpra04@gmail.com	
99	Sikkim SLDC	Namgyal Tashi	SE (SLDC)	7797672743	namgyaltashi26@gmail.com	
100	Sikkim Urja Limited	MIOHAARIF Yogendra Kumar	VP	9910413388	yogendra.k@greenkogroup.com	
101	Sikkim Urja Limited	Prabhat Kumar	CGM-Projects	9431241313	prabhat.k@greenkogroup.com	
102	SLDC Bihar	Sunil Kumar Gupta	ESE	7763817717		
103	SLDC WB	Shouvik Banerjee	CE, SLDC	9434910379	ce.wbslco@gmail.com	
104	Sneha Kinetic Power Projects Ltd.	D.P. Bhargava	Advisor	9958833995	dimesh.b@greenkogroup.com	
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107	TVNL	Ashish Kumar Sharma	ESE	9031049922	ashish.sharma@tvnl.in	
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109	Vedanta Ltd	Mangu Srinivas	Deputy Plant Head & GM-Power Systems	9827512809	Mangu.Srinivas@vedanta.co.in	
110	WBPDCL	Kausik Datta	Exe. Director (OS)	8336903895	kdatta@wbpdcl.co.in	












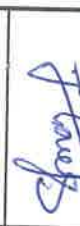


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115	WBSEDCL	Chanchal Biswa	Deputy Chief Engineer	8777736338		
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17/12/2025

55th ERPC TCC Meeting at Kailimpong

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2	BSPHCL	Md Kaishar Jamal	AEE/PMC	6287042462		
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30	ERPC	D K Khuntia	Assistant Director	7683889161			

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116	WBSETCL	Sabyasachi Roy	Director (Operations)	9432316727	Sabva_60@yahoo.com	
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120	WRPC	Deepak Sharma	Assistant Secretary	8383026665	deepak2110@nic.in	