



भारत सरकार/ Government of India

विद्युत मंत्रालय Ministry of Power

उत्तर पूर्वी क्षेत्रीय विद्युत समिति

North Eastern Regional Power Committee

एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय

NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006, Meghalaya

No. NERPC/TCC & NERPC/2025-26/8307-8382

Date: 5th Mar, 2026

सेवा में / To,

As per NERPC Members List.

**विषय: 31 वीं टीसीसी और 31 वीं एनईआर पावर समिति की बैठकों के लिए कार्यसूची /
Agenda for the 31st TCC & 31st NER Power Committee Meetings – Reg.**

महोदय/महोदया,

Please find attached herewith the agenda for 31st TCC and 31st NERPC Meetings. The meetings are scheduled to be held as per the details given below:

Date	Meeting	Venue	Time
11 th March, 2026 (Wednesday)	31 st TCC	KTP Youth Recreation Centre (YRC), Falkland, Aizawl	10:30 Hrs
12 th March, 2026 (Thursday)	31 st NERPC	KTP Youth Recreation Centre (YRC), Falkland, Aizawl	11:00 Hrs

The meetings will be hosted by P&ED, Mizoram. The nodal officers for the meetings are as given below:

Name & Designation	Contact No.	Email
Er Lalhminghlua, SE	7005797636	hlua09@gmail.com
Er H Lalruatkima, SE (Travel plan & Participants- related details)	9862925462	msldc.circle@gmail.com
Er Lalrinmawia, SE (Hotel & Accommodation -related details)	9436154122	
Er Lalsawmliana, SE (Vehicle within Aizawl- related details)	9436141269	

Kindly make it convenience to attend the meeting for fruitful deliberations.

भवदीय/Yours faithfully,

(बी लिंगखोई /B. Lyngkhohi)

सदस्य सचिव/Member Secretary

NERPC Members List:

1. Hon`ble Dy. Chief Minister & In-charge of Power, Govt. of Arunachal Pradesh, Itanagar - 791 111
2. Hon`ble Power Minister, Govt. of Assam, Dispur-781006
3. Hon`ble Minister of Power, Govt. of Manipur, Imphal – 795 001
4. Hon`ble Minister of Power, Govt. of Mizoram, Aizawl - 796 001
5. Hon`ble Minister of Power, Govt. of Nagaland, Kohima - 797001
6. Hon`ble Minister of Power, Govt. of Tripura, Agartala-799001
7. Member (GO&D), CEA, Sewa Bhavan, R. K. Puram, New Delhi - 110 066
8. Commissioner & Secretary (Power), Govt. of Arunachal Pradesh, Itanagar – 791 111
9. Principal Secretary (Power), Govt. of Assam, Dispur, Guwahati - 781 006
10. Commissioner & Secretary (Power), Govt. of Manipur, Imphal - 795001
11. Commissioner & Secretary (Power), Govt. of Meghalaya, Shillong - 793001
12. Commissioner & Secretary (Power), Govt. of Mizoram, Aizawl - 796001
13. Principal Secretary (Power), Govt. of Nagaland, Kohima - 797001
14. Principal Secretary (Power), Govt. of Tripura, Agartala – 799001
15. Chairman, APDCL/AEGCL/APGCL, Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
16. CMD, MeECL (MePDCL/MePGCL/MePTCL), Lumjingshai, S. R. Road, Shillong - 793 001
17. Chairman, TSECL, Agartala - 799001
18. Managing Director, AEGCL, Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
19. Managing Director, APDCL, Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
20. Managing Director, APGCL, Bijuli Bhawan, Paltan Bazar, Guwahati – 781 001
21. Managing Director, TSECL, Agartala - 799001
22. Managing Director, TPGL, Agartala - 799001
23. Chairman & Managing Director, NEEPCO Ltd., Lower New Colony, Shillong - 793 003
24. Director (Technical), NHPC Ltd., NHPC Complex, Sector-33, Faridabad, Haryana - 121 003
25. Director (Finance), NTPC Ltd. NTPC Bhawan, Scope Complex, Institutional Area, Lodhi Road
26. Managing Director, OTPC, 6th Floor, A-Wing, IFCI Tower -61, Nehru Place, New Delhi – 110019
27. Managing Director, NETC, 3rd Floor, DMRC Building, Dwarka Sector-21, New Delhi-77
28. Director (Operation), POWERGRID, Saudamini, Plot No. 2, Sector-29, Haryana – 122 001
29. CEO, NVVNL, Core 5, 3rd Floor, Scope Complex, 7 Institutional Area, Lodhi Road, Delhi – 03
30. Chairman & Managing Director, PTC, NBCC Tower, 15 Bhikaji Cama, Place, New Delhi – 110066
31. COO, CTUIL, Plot No.2, sector-29, Gurgaon, Haryana – 122001
32. ED, NLDC, B/9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 16
33. ED, NERLDC, Dongtieh-Lower Nongrah, Lapalang, Shillong- 793006
34. CEO, MUML, DLF Cyber Park, Udyog Vihar Phase 3 Rd, Sector 20, Gurugram, Haryana-122008

Copy to:

PS to Chairman, NERPC and Hon`ble Minister of Power, Govt. of Meghalaya, Shillong – 793001



सदस्य सचिव/Member Secretary

TCC Members -Copy for kind information

1. Director (Transmission), MePTCL, Lumjingshai, S.R. Road, Shillong – 793 001
2. Director (Distribution), MePDCL, Lumjingshai, S.R. Road, Shillong – 793 001
3. Director (Generation), MePGCL, Lumjingshai, S.R. Road, Shillong – 793 001
4. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal – 795 001
5. Managing Director, MSPDCL, Secure Office Bldg. Complex, Near 2nd MR Gate, Imphal – 795 001
6. Director (Tech.), TSECL, Bidyut Bhaban, Banamalipur, Agartala -799 001.
7. Director (Generation), TPGL, Bidyut Bhaban, Banamalipur, Agartala -799 001.
8. Director (Tech.), NETC, 3rd Floor, DMRC Building, Dwarka Sector-21, New Delhi-77
9. GM (Transmission), TPTL, Bidyut Bhaban, Banamalipur, Agartala -799 001.
10. Executive Director (O&M), NEEPCO Ltd., Lower New Colony, Shillong-793003.
11. Regional ED (East –II), NTPC, 3rd Floor, OLIC Bldg., PI No- N.17/2, Nayapalli, Bhubaneswar-12
12. Executive Director, NERTS, PGCIL, Lapalang, Shillong - 793006
13. GGM/HoD (O&M), NHPC Ltd., Sector-33, Faridabad, Haryana-12103.
14. Executive Director (Marketing), PTC, NBCC Tower, 15 Bhikaji Cama, Place, New Delhi – 110066
15. Chief Engineer (GM), CEA, 6th Floor, Sewa Bhawan, R.K.Puram New Delhi-110066.
16. Engineer-in-Chief, P&E Dept., Govt. of Mizoram, Aizawl – 796 001
17. Engineer-in-Chief, Dept. of Power, Govt. of Nagaland, Kohima – 797 001.
18. Chief Engineer (TPMZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 1
19. Chief Engineer (WEZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 1
20. Chief Engineer (EEZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 1
21. Chief Engineer (Commercial) -cum- CEI, Deptt. of Power, Govt. of Arunachal Pradesh, Itanagar- 11
22. VP (Plant), OTPC, Palatana, P.O Udaipur, Gomati Dist., Tripura – 799105
23. GM (BD), NVVNL, Core 5, 3rd Floor, Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi-3
24. CGM, AEGCL, Bijuli Bhawan, Paltan Bazar, Guwahati – 781 001
25. CGM, APGCL, Bijuli Bhawan, Paltan Bazar, Guwahati – 781 001
26. CGM, APDCL, Bijuli Bhawan, Paltan Bazar, Guwahati – 781 001
27. CGM (LDC), SLDC Complex AEGCL, Kahelipara, Guwahati-781019.
28. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar-791111
29. Head of SLDC, Dept. of Power, Govt. of Manipur, Keishampat, Imphal-795001
30. Head of SLDC, MeECL, Lumjingshai, S.R. Road, Shillong-793001
31. Head of SLDC, P&E Dept., Govt. of Mizoram, Aizawl-796001
32. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur
33. Head of SLDC, TSECL, Agartala – 799001
34. ED, NLDC, Grid-India, B-9 (1st Floor), Qutab Institutional Area, Katwaria Sarai, New Delhi-16
35. Dy. COO, CTUIL, Plot No.2, Sector-29, Gurgaon, Haryana-122001
36. Executive Director, NERLDC, Grid-India (POSOCO), Lapalang, Shillong – 793006
37. Head & VP- Regulatory & Contracts, ENICL, Windsor Building, Kalina, Santacruz (East), Mumbai-400098
38. Head (O&M), MUML, DLF Cyber Park, Udyog Vihar Phase 3 Rd, Sector 20, Gurugram, Haryana-122008

Special Invitee(s):

1. Chief Engineer (NPC), CEA, Sewa Bhawan, R. K. Puram, New Delhi – 110066

Non-member participants:

1. Head, Transmission, KMTL, 7th Floor, Fulcrum, Sahar Road, Andheri (E), Mumbai-400099
2. COO, IndiGrid, Unit No. 101, Windsor, Off CST Road, Vidyanagari Marg, Kalina, Santacruz East, Mumbai 400 098


सदस्य सचिव/Member Secretary



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर पूर्वी क्षेत्रीय विद्युत समिति

North Eastern Regional Power Committee

AGENDA

FOR

31ST TCC MEETING

(UNDER THE AEGIS OF P&ED, MIZORAM)

Venue	: KTP Youth Recreation Centre, Aizawl
Date (TCC)	: March 11th, 2025



Contents

1. MEETING SCHEDULE, CONFIRMATION OF MINUTES & ATR	5
1.1. Meeting Schedule	5
1.2. Confirmation of the minutes of 30 th NERPC Meeting.....	5
1.3. Action Taken Report on decisions taken in 30 th TCC/NERPC Meetings	5
1.4. Arrangement of Agenda of 31 st TCC & 31 st NERPC Meeting.....	6
2. PART-A: ITEMS FOR DISCUSSION.....	7
2.1. Progress of SCADA-EMS upgradation/replacement systems at Regional/State level in North-Eastern Region: NERLDC, DoP AP, P&ED, Mizoram.....	7
2.2. Ensuring appropriate representation in OCC/PCC/CCM/NeTesT meetings: NERPC	8
2.3. Participation of DISCOMs in sub-committees of NERPC: NERPC	10
2.4. Protection Audit of NER: NERPC.....	11
2.5. Capacity building for NER constituents on emerging technologies of Power Sector to be funded through PSDF or any other funds NERPC: NERPC secretariat.....	14
2.6. Creation of “Training head” under NERPC Establishment Fund for training purpose for the constituent members: NERPC.....	15
2.7. Final SoP/ Guidelines for diversion of RPC approved Spare Transformers and Reactors to the constituents / state transmission utilities: NERPC	16
2.8. Summer preparedness by NER utilities for reliable power supply: NERLDC	18
2.9. Energisation of 220 kV Bus-II at Sonabil S/s on immediate basis: NERLDC	22
2.10. Renovation of the Switchgears and Protection System in the existing ISTS 33/11KV Substations of MePDCL.	23
3. PART-B: ITEMS FOR APPROVAL.....	24
3.1. Quarterly expenditure of NERPC Board Fund for FY 2025-26.....	24
3.2. Quarterly expenditure of NERPC Establishment Fund for FY 2025-26	25
3.3. Reappropriation of Budget Estimates (BE) for FY 2023-24: NERPC.....	25
3.4. Reappropriation of Budget Estimates (BE) for FY 2024-25: NERPC.....	27
3.5. Reappropriation of Budget Estimates (BE) for FY 2025-26: NERPC.....	28
3.6. NERPC Secretariat Establishment Fund Budget Estimates (BE) for FY 2026-27 and Annual Contribution towards “NERPC Secretariat Establishment Fund” For FY 2026-27: NERPC	30



3.7. NERPC Board Fund Budget Estimates (BE) for FY 2026-27 and Annual Contribution towards “NERPC Board Fund” For FY 2026-27: NERPC.....	32
3.8. Pending contribution of NERPC Establishment Fund contributions: NERPC	33
3.9. Pending contribution of NEPRC Board funds contributions: NERPC.....	33
3.10. Status of Audit of NERPC Establishment Fund and NERPC Board Fund for FY 2025-26: NERPC	34
3.11. Nomination for co-signatory for “NERPC Establishment Fund”/ “NERPC Board Fund” Accounts: NERPC.....	35
3.12. Permanent Closure of NERPC Furnishing Fund Account: NERPC.....	36
3.13. Renewal of AMC for PDMS and PSCT system of NER for FY 2026-27: NERPC	37
3.14. Proposal to hire Consultant for Administrative related works at NERPC Secretariat: NERPC.....	38
3.15. Roster for next TCC/NERPC Meetings -NERPC.....	39
4. PART C: COMMERCIAL ISSUES	41
4.1. Unallocated share from Lower Subansiri, NHPC: APDCL, MePDCL.....	41
5. PART D: ITEMS FOR INFORMATION/UPDATE.....	43
5.1. Status of Construction of Backup SLDC in NER states: NERLDC	43
5.2. Charging of ISTS and Intra State Elements under NERPSIP without adherence to FTC procedure: NERLDC	45
5.3. Construction of 2 nd Transmission line to Tuirial Power Station of NEEPCO: NEEPCO	46
5.4. Construction of 132kV Monarchak- Surjamaninagar Transmission line: NEEPCO	47
5.5. Blending of Gas at OTPC Palatana Project: TRIPURA.....	47
6. PART E: ITEMS RECOMMENDED FOR REFERRAL TO SUB-COMMITTEE ..	50
6.1 Regional Cyber Security Coordination Forums for NER: NERPC.....	50
6.2 Implementation of Travelling Wave Fault Locator (TWFL) on critical transmission lines in NER: NERPC.....	51
6.3 Uniform criteria on Harmonics measurement in the grid: NERPC.....	53
6.4 Status of Emergency Restoration System (ERS) for NER: NERPC.....	53
6.5 Submission of Remote Site Details and Backup Control Centres of Assam, Arunachal Pradesh, Mizoram, Tripura, and Manipur for the VoIP Communication System Project: POWERGRID.....	55
6.6 Elements to be Taken Over by Respective State Utilities under NERPSIP: POWERGRID	57



NORTH EASTERN REGIONAL POWER COMMITTEE

6.7 Reimbursement of balance State GST Component NERPSIP and CTDS-AP: POWERGRID.....	58
6.8 Installation of OPGW on the Jointly Owned AEGCL-MePTCL Deemed ISTS Line: MePTCL.....	58
6.9 Shifting of vulnerable location No. 124- 127 & 174, 175 of 132KV Roing-Pasighat Transmission Line: POWERGRID.....	59
6.10 Outage of 400kv Palatana-SM Nagar(ISTS) T/L and 132kv Palatana-SM Nagar(TESCL) TL for construction of multi circuit tower in place of 03 nos ERS installed in between loc 91 & 92 of 400 kV Palatana-SM Nagar T/L: POWERGRID.....	60
6.11 Shutdown of Loktak Power Station (105 MW) for Undertaking Renovation & Modernization Works: NHPC	63



Agenda for 31st TCC MEETING TO BE HELD ON 11th MARCH'2026

1. MEETING SCHEDULE, CONFIRMATION OF MINUTES & ATR

1.1. Meeting Schedule

Sl. No.	Meeting	Date	Time	Venue
1	TCC	11.03.2026	10:30 Hrs	KTP Youth Recreation Centre, Aizawl
2	NERPC	12.03.2026	11:00 Hrs	KTP Youth Recreation Centre, Aizawl

1.2. Confirmation of the minutes of 30th NERPC Meeting

The minutes of the 30th TCC & 30th North Eastern Regional Power Committee (NER Power Committee) meetings held on 13th and 14th November'2026 respectively at Hotel Taj Dal View, Srinagar, J&K, were circulated vide letter no. NERPC/TCC & NERPC/2025-26/3120-3199 dated 25th November'2025.

No comments were received from constituents.

TCC and NER Power Committee may confirm the minutes of above meetings.

1.3. Action Taken Report on decisions taken in 30th TCC/NERPC Meetings

Action taken report on decisions taken in 30th TCC & NERPC Meeting is enclosed (**Annexure-1.3**) for kind information.



1.4. Arrangement of Agenda of 31st TCC & 31st NERPC Meeting

SN	DESCRIPTION	CATEGORY
1	<u>ITEMS FOR DISCUSSION</u>	A
2	<u>ITEMS FOR APPROVAL</u>	B
3	<u>COMMERCIAL ISSUES</u>	C
4	<u>ITEMS FOR INFORMATION /UPDATE</u>	D
5	<u>ITEMS RECOMMENDED FOR REFERRAL TO SUB-COMMITTEE</u>	E



2. PART-A: ITEMS FOR DISCUSSION

2.1. Progress of SCADA-EMS upgradation/replacement systems at Regional/State level in North-Eastern Region: NERLDC, DoP AP, P&ED, Mizoram

With reference to the NER SCADA/EMS ULDC-III Project which the 26th Monitoring Committee of PSDF had assigned to POWERGRID for implementation, attached as **Annexure-2.1.1**. PSDF has agreed to provide 70% of the cost of the project as grant and 30% of the cost of the project shall be contributed by POWERGRID as an equity.

NERPC had convened a special meeting on 30.01.2026 in which NERPC, States of NER, NERLDC and POWERGRID had deliberated regarding the way to take this project forward. In the meeting, Member Secretary, NERPC advised POWERGRID to communicate a letter along with the tentative tariff for project as well as AMC phase addressing each of the State's Management.

Accordingly, POWERGRID wrote a letter to NER-SLDC vide ref. CC-GA&C-NER ULDC III-01 dated 25.02.2026, has prepared a Cost estimate for the Project based on the DPR inputs received from Grid-India submitted for PSDF funding in 2024. The cost of the project is estimated at ₹484.61 Cr. excluding AMC based on the latest 'Schedule of Rates' of POWERGRID. The abstract of the Project is enclosed at **Annexure-2.1.2**. The project life has been considered as 7 years from the date of Operational Acceptance, and the Project implementation period is 24 months.

Further, as per the MoM of PSDF Monitoring Committee,

“.....70% funding provided as a grant through PSDF and remaining 30% cost to be recovered through tariff. It was also decided that the consultancy charges of POWERGRID to the extent of 100% will be funded through PSDF. The POWERGRID



shall be the implementing agency for this project and the PSDF grant shall be released to POWERGRID in line with PSDF guidelines....”

Accordingly, the following may be deliberated:

1. Confirmation from NER-SLDCs, through respective Board/Government approvals, regarding acceptance of the 70:30 funding arrangement (PSDF Grant: POWERGRID Equity) as stipulated by the Monitoring Committee.

TCC may deliberate.

2.2. Ensuring appropriate representation in OCC/PCC/CCM/NeTesT meetings: NERPC

In accordance with **Chapter-IV, Rule-24, Clause-B of CBR-2024 of NERPC**, the *Operation Sub-Committee (OCC)* has been constituted. As per the provisions of the said rule, each constituent organization of NERPC is required to nominate **one technical representative at the level of Chief Engineer or equivalent** from their organization to the Operation Sub-Committee.

Further, as per **Chapter-IV, Rule-24, Clause-D**, the *Protection Sub-Committee (PCC)* has been constituted. In accordance with the provisions of this clause, each constituent organization of NERPC is required to nominate **one representative at the level of Chief Engineer or equivalent, specifically dealing with power system protection and/or testing**, to the Protection Sub-Committee.

Further, as per **Chapter-IV, Rule-24, Clause-D**, the *Protection Sub-Committee (PCC)* has been constituted. In accordance with the provisions of this clause, each constituent organization of NERPC is required to nominate



one representative at the level of Chief Engineer or equivalent, specifically dealing with **power system protection and/or testing**, to the Protection Sub-Committee.

It has been observed in the recent OCC, PCC, CCM and NeTeST meetings of the RPC that, in several instances, only junior-level officers have been deputed by some constituent utilities/organizations. While their presence is appreciated, it has been noted that the officers attending are at times not adequately conversant with the agenda issues, technical background, regulatory provisions, or decision-making authority required for meaningful deliberation.

OCC, PCC, CCM and NeTeST meetings are critical platforms under the RPC forum. Effective discussion, timely decision-making, and accountability require participation of senior officers equivalent to the level of Chief Engineer (CE) or above, who are empowered to take informed decisions and provide commitments on behalf of their respective organizations.

In view of the above, it is proposed that:

1. All constituent utilities/organizations shall ensure nomination of a senior officer not below the rank equivalent to Chief Engineer (CE) to attend OCC and PCC meetings.
2. The senior officer may be accompanied by the concerned junior officer/technical representative handling the subject matter for detailed inputs and follow-up actions.
3. In unavoidable circumstances where the designated senior officer is unable to attend, prior intimation may be given to the RPC Secretariat along with nomination of an alternate officer of equivalent rank.

TCC may deliberate.



2.3. Participation of DISCOMs in sub-committees of NERPC: NERPC

During the 235th OCC meeting, Resource Adequacy (RA) assessment for the period (April-July 2026) was deliberated in detail. It was observed that meaningful assessment of Resource Adequacy requires active participation of DISCOMs, as demand projections, resource tie-ups, short-term procurement strategies, and operational constraints primarily rest at the distribution level. The Committee noted that in the absence of DISCOM representation, comprehensive deliberation on RA studies and operational planning remains constrained. Accordingly, it was discussed that concerned DISCOM officers should mandatorily attend OCC meetings to facilitate informed and effective discussions on Resource Adequacy and operational planning matters.

Subsequently, letters were issued to the individual States on 25.02.2026 communicating the findings of the Resource Adequacy assessment and the projected demand–supply gaps, advising them to proactively finalize advance procurement arrangements to minimize dependence on short-term market purchases during the anticipated high-demand period.

Further, as directed in Hon'ble CERC report on Planning for safe, secure, and reliable integrated operation of the power system during critical periods arising on account of seasonal variations under order dated 07.10.2024 in Suo-Motu Petition No. 9/SM/2024, states/SLDCs are requested to adopt proactive approach to plan their procurement in advance and minimise the dependence on last-minute Day-Ahead Markets (DAM) and real time markets (RTM) purchases, as these do not guarantee availability of power during high-demand periods.

The assessment aims to facilitate timely and appropriate actions, including advance procurement of power, optimization of internal generation, and coordination for bilateral/market purchases, to mitigate potential resource gap in the NER grid during the forthcoming high-demand period.



States are therefore requested to undertake proactive and advance procurement planning, optimize internal generation, and firm up bilateral arrangements well in advance so as to ensure that no overdrawal or power shortage arises in real-time operation during the critical high-demand period.

Further state should ensure concerned DISCOM officers should mandatorily attend OCC meetings to facilitate informed and effective discussions on Resource Adequacy and operational planning matters.

TCC may deliberate.

2.4. Protection Audit of NER: NERPC

Third-party protection audit is generally required to be conducted by the respective utilities once in every 5 years. However, for critical substations identified based on system importance and event analysis, NERPC constitutes audit teams to carry out third-party audits.

NERPC has already:

- Circulated an audit calendar.
- **Shared standardized audit formats for uniform implementation.**

The compliance status of Internal and Third-Party Protection Audits is reviewed regularly in PCCM meetings.

However, during the **88th PCCM**, it was observed that:

- The progress of Third-Party Protection Audit in NER is significantly slow. Status of External audit is given below:



NORTH EASTERN REGIONAL POWER COMMITTEE

Sr No	Utility/Constituent	Total S/s	Audited S/s
1	Ar. Pradesh	9	3
2	Assam	82	0
3	Manipur	17	2
4	Meghalaya	22	19
5	Mizoram	13	3
6	Nagaland	11	6
7	Tripura	18	0
8	Powergrid (NERTS)	22	9
9	NTL	2	0
10	KMTL	1	1
11	MUML/NBTL	1	1 (NBTL done)
12	NEEPCO	10	2 (Kameng, AgBPS)
13	OTPC (Palatana)	1	1



NORTH EASTERN REGIONAL POWER COMMITTEE

Sr No	Utility/Constituent	Total S/s	Audited S/s
14	NTPC (BgTPP)	1	1
15	NHPC (Loktak)	1	1
16	APGCL	5	0
17	TPGCL	3	0
18	MEPGCL	8	0
19	Dikshi HEP (IPP)	1	0
Total		228	49

- Some State Utilities informed that delays are primarily due to **financial constraints** for engaging external audit agencies.
- MS, NERPC clarified that NERPC can facilitate third-party audits only for selected critical substations, whereas utilities must develop their own institutional mechanism for timely compliance.
- It was emphasized that audit compliance is a **statutory requirement under IEGC 2023**, and delay may adversely impact grid reliability and protection system preparedness.

Accordingly, PCCM recommended that the matter be placed before RPC for appropriate directions and sensitization of higher management of utilities.

TCC may deliberate.



**2.5. Capacity building for NER constituents on emerging technologies of Power Sector to be funded through PSDF or any other funds
NERPC: NERPC secretariat**

During the 29th TCC/RPC meeting, the forum had agreed for a capacity building program on “International Best Practices in Energy Transition with Study program” and proposed for PSDF funding. The estimate for the proposal was obtained from PowerGrid. Subsequently, NERPC secretariat had sent the DPR to PSDF secretariat on 14.10.2025 based on the estimate submitted by PGCIL.

In 30th TCC/NERPC Meeting, Member Secretary, NERPC informed that capacity building on emerging technologies (such as Battery Storage, green hydrogen, integration of large renewable solar & wind power, cyber security etc) is very much essential to cope up with this technology.

Member (GO&D) CEA, informed that the priority for PSDF fund has already been fixed by the Government for some critical projects such as Battery Storage, NER SCADA, Cyber Security etc. The above proposal will be delayed for waiting under PSDF fund.

CMD, MeECL proposed that the program can be self-funded with one time contribution from the utilities to NERPC Establishment Fund.

After detailed deliberation, the forum agreed, in-principle, to the proposal of self-funding. Member Secretary, NERPC stated that the amount of contribution (utility wise) required and other details will be presented in the next RPC meeting.

TCC may deliberate.



2.6. Creation of “Training head” under NERPC Establishment Fund for training purpose for the constituent members: NERPC

NERPC has created a dedicated **“Training Head”** under NERPC Establishment Fund to facilitate training programs for constituent organizations. The objective is to enhance technical and managerial capabilities of engineers and officers through training in key areas such as system operation, protection, cyber security, and commercial aspects of the power sector, thereby improving overall knowledge and skill levels.

During the 29th TCC/NERPC Meeting, the forum agreed to the creation of this “Training Head” for capacity building and domestic training initiatives and recommended the same to NERPC for concurrence.

NERPC beneficiaries will nominate its representatives for the identified trainings.

29th TCC/RPC forum agreed for the creation of “Training Head” in NERPC Establishment fund.

In 30th TCC/NERPC, Member (GO&D), CEA congratulated NERPC for creation of such training head. He informed that recently he has taken the additional charge of DG NPTI. He also informed that suitable training course will be identified in NPTI and NERPC members can send their nominations for capacity and skill building for their officers. Forum congratulated Member (GO&D), CEA for his appointment as DG(NPTI).

Subsequently, NERPC has kept budget provision of Rs 25 Lakhs for FY 2026-27 under Training head.

TCC may deliberate.



2.7. Final SoP/ Guidelines for diversion of RPC approved Spare Transformers and Reactors to the constituents / state transmission utilities: NERPC

From time to time, Regional Power Committees (RPCs) have approved procurement of cold spare transformers and reactors based on regional requirements assessed as per recommendations of the Committee constituted by CERC. During deliberations in various RPC and sub-committee meetings, the need for a standardized and transparent mechanism for utilization/diversion of such RPC approved spares by constituent utilities / State Transmission Utilities (STUs) was emphasized.

Accordingly, SRPC and NRPC have separately examined the matter and finalized region specific Standard Operating Procedures (SoPs) / Guidelines for diversion of RPC approved spare transformers and reactors, which have now been referred to NPC for consideration with a view to ensuring uniformity at the pan-India level.

In Southern Region, PGCIL placed the requirement of cold spare transformers and reactors before the 50th TCC and 53rd SRPC Meetings (30.11.2024 and 29.11.2024). During discussions, PGCIL was requested to evolve a detailed modality for utilization of regional spares. In compliance, PGCIL submitted a draft SoP, which was deliberated in the 62nd Meeting of the Commercial Sub-Committee of SRPC (07.03.2025) and 224th OCC Meeting (11.03.2025). As per the decision of the 28th National Committee on Transmission (NCT), it was agreed that comprehensive proposals for all regions may be placed before NPC. Subsequently, PGCIL submitted a revised and finalized SoP (attached at **Annexure-2.7**), incorporating suggestions of Southern Region beneficiaries and SRPC Secretariat, which has been approved by PGCIL Corporate Office and forwarded for NPC approval.

In Northern Region, the issue of diversion of RPC approved spare transformers and reactors was deliberated in the 80th NRPC meeting held



on 18.07.2025, wherein POWERGRID was asked to submit draft guidelines covering scope, cost implications, penalty provisions, responsibilities of borrowing utilities, timelines for return, and related aspects. The draft guidelines were examined in the 234th, 235th, and 236th OCC meetings of NRPC and 52nd Commercial Sub-Committee (CSC) meeting of NRPC. The finalized guidelines were approved in the 81st NRPC meeting held on 31.10.2025 for diverting RPC approved cold spares (transformers and reactors) to regional constituents and asked RPC secretariat to implement the same. NRPC Forum further recommended that the guidelines may be placed before NPC to ensure pan-India uniformity.

General Features of the SOP is as below:

- i) The SOP lays down a structured framework for diversion of RPC-approved regional spare transformers and reactors maintained by POWERGRID to address emergency and contingency situations, while ensuring continued readiness of the ISTS.
- ii) The SOP is applicable exclusively to regional spares approved by the concerned RPC and installed at ISTS substations. Diversion is permitted only to ISTS entities (POWERGRID/TSPs) and, in case of equipment failure, to STU substations.
- iii) Diversion for new projects, capacity augmentation, or inter-regional transfer is explicitly prohibited, thereby preserving the strategic role of regional spares for grid security.
- iv) All diversions are allowed strictly on a replenishment basis, with ownership of the equipment remaining with POWERGRID at all times.
- v) The SOP clearly delineates roles and responsibilities of POWERGRID, borrowing TSPs/STUs, and the RPC Secretariat, ensuring transparency, accountability, and regulatory oversight.
- vi) A defined diversion procedure is prescribed, including submission of a formal request with technical justification, evaluation by the RPC



forum, and execution of a MoU within a stipulated timeframe following RPC approval.

- vii) The SOP mandates joint inspection and testing of the equipment prior to diversion as well as upon return, to safeguard asset condition and operational reliability.
- viii) Timelines and tenure of diversion are clearly specified, with diversion normally permitted up to 24 months, extendable only with explicit RPC approval. Provision is also made for early recall in the interest of grid security.
- ix) Key milestones such as Zero Date (handover date) and Return Date (re-handover date) are clearly defined to enable effective monitoring and compliance.
- x) Bank Guarantee equal to equipment cost, valid till 45 days after return.
- xi) Delay beyond 24 months: 15% of YTC penalty (pro-rata) and continued default: BG encashment or regulatory action.
- xii) POWERGRID maintains central register with all diversion details which Includes borrower data, equipment details, test results, and YTC adjustments. SOP reviewed periodically for operational or regulatory updates.

In 17th NPC meeting, the SOP was in principle approved. All the RPCs are to adopt this SOP.

TCC may deliberate.

2.8. Summer preparedness by NER utilities for reliable power supply: NERLDC

Assam demand in upcoming summer is expected to cross 3 GW and NER total demand is also expected to cross 4.4 GW. In view of this all utilities are requested to take all necessary action to meet the summer demand. Several



constraints were observed in meeting this maximum demand, which are highlighted below:

a. Rangia area of Assam

- N-1 outage of the 220 kV Rangia–BTPS D/C along with high loading of the 132 kV Rangia–Motanga line is leading to severe low-voltage conditions.
- High power import (more than 60 MW) from the 132 kV Rangia–Motanga line and low voltage (around 117 kV) in this area also impacts the Bhutan power system.
- SPS for tripping of the 220 kV Rangia–BTPS D/C is presently in place.
- Early commissioning of 400/220 kV Rangia substation along with downstream network development will provide reliable power supply in this area.

b. Bongaigaon area of Assam

- N-1 contingency of 2×160 MVA, 220/132 kV ICTs at BTPS remains a concern.
- SPS exists for load tripping on outage of any one ICT at BTPS.
- Early commissioning of 220/132 kV Gossaigaon (Agomoni) substation with associated downstream works is long-term measure.

c. Sonabil area of Assam

- Under N-1 condition, outage of either the 132 kV Sonabil–Depota or Sonabil–Ghoramari line may lead to grid disturbance.
- No SPS is currently available.



- Commissioning of the 132 kV Balipara–Misamari D/C and other approved connectivity to enable utilization of Balipara ICTs is envisaged as the long-term solution.

d. Capital & Samaguri area of Assam

- N-1 outage of the 400 kV Bongaigaon–Azara line results in high loading on 220 kV Balipara–Sonabil D/C and Agia–BTPS D/C.
- SPS exist for the capital area includes tripping of 220 kV Misa–Samaguri D/C, 220kV Balipara–Sonabil D/C and 220 kV Sarusajai–Azara DC.
- An SPS for load relief exist on outage of one of the 2 × 315 MVA ICTs at the 400/220 kV Azara substation.
- Implementation of the 400 kV Sonapur substation and strengthening of downstream corridors will provide long-term relief.

e. Ningthoukhong area of Manipur

- High loading on the 132 kV Loktak–Ningthoukhong line during peak hours at full generation from Loktak HEP.
- Restoration of 132 kV Jiribam–Rengpang line and Commissioning of the second circuit of 132 kV Loktak–Ningthoukhong is the identified solution.

f. Capital region of Manipur system.

- The 400 kV Imphal–Thoubal Line-I has been under outage since 18.10.2021.
- The 132 kV Churachandpur–Ningthoukhong Line-I has been under outage since 04.08.2024.
- Outage of the second circuit (400 kV Imphal–Thoubal Line-II) would force the Manipur system to operate radially in two parts— one fed through the 400/132 kV Imphal substation and the other through the 132 kV Loktak substation. A similar situation was



experienced on 24 April 2024, when 400 kV Imphal–Thoubal Line-II was under forced outage for an extended duration after three towers collapsed due to strong winds. Flood conditions further hampered restoration, which was finally completed in September 2024.

- Hence the above lines may please be restored on priority.

g. Low Gas Generation Availability in Tripura system

- High loading is observed on the 132 kV S.M. Nagar–S.M. Nagar line.
- Increasing generation from Rokhia and Baramura is expected to mitigate the constraint.

All transmission utilities or licensees should keep ERS in readiness, preferably at more than one stores, so that these can be transported to any affected area in the region/state at the least time.

The above system constraints have already been discussed in various OCC and RPC meetings, and concerns regarding reliable and secure system operation have been raised. Utilities are requested to provide the current status of above ongoing projects and do the needful for early commissioning of above elements/lines which are critical for safe and secure grid operation.

In the 235th OCC meeting, the forum emphasized the importance of preparedness of all utilities to effectively handle the upcoming summer period. All utilities were directed to adhere strictly to the stipulated timelines for completion of their respective projects and preparedness activities.

TCC may deliberate.

2.9. Energisation of 220 kV Bus-II at Sonabil S/s on immediate basis: NERLDC

The 220 kV Sonabil substation is one of the critical substations for the NER system, and the availability of this corridor has a significant impact on the TTC of Assam as well as the overall NER grid.

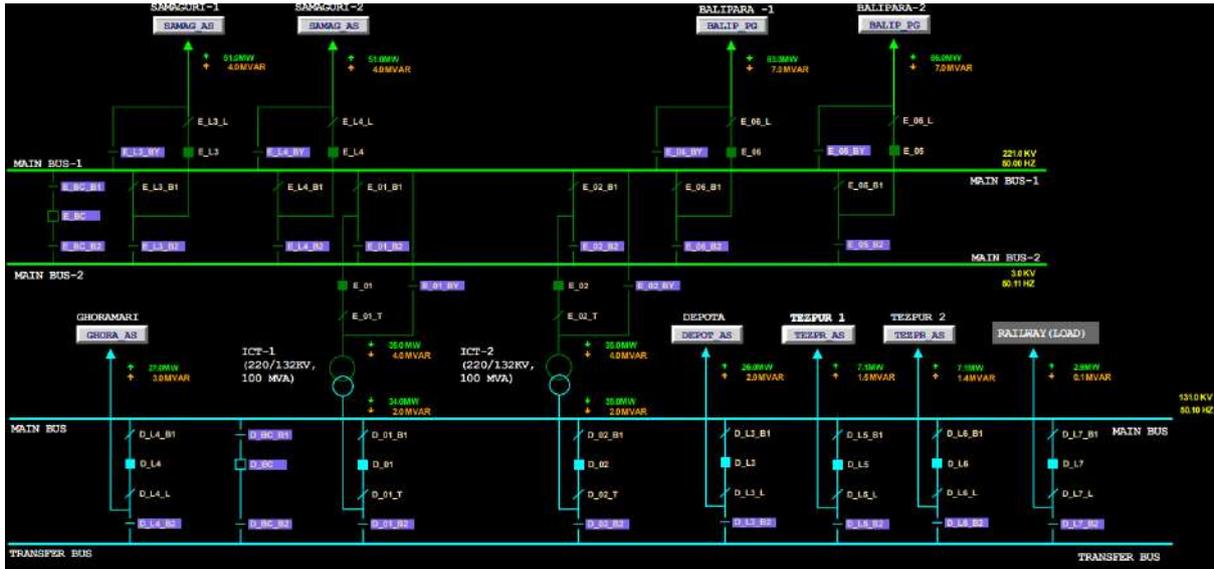


Fig: Single line diagram of 220/132 kV Sonabil station

During the shutdown of Bus-1 at Sonabil on 08-02-2026, it was informed that 220 kV Bus-II at Sonabil is not in operation. Consequently, in order to avail the shutdown of 220 kV Bus-1, all elements connected to Bus-1 were taken out of service. The list of affected elements is given below:

- a) 220 kV Balipara–Sonabil D/C
- b) 220 kV Sonabil–Samaguri D/C
- c) 2 × 160 MVA, 220/132 kV ICTs at Sonabil

Isolation of these elements at the 220 kV Sonabil station is adversely affecting the reliability of the NER grid. In view of the above, you are requested to kindly restore 220 kV Bus-II at Sonabil station at the earliest.



In the 235th OCC meeting, AEGCL informed the forum that the physical 220 kV Main Bus-II exit at Sonabil Substation is under implementation and is expected to be commissioned by December 2026.

In view of the strategic importance of Sonabil substation for maintaining grid reliability and TTC margins in the NER region and noncompliance of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, AEGCL advised to expedite the energisation of 220 kV Bus-II.

AEGCL may respond. TCC may deliberate.

2.10. Renovation of the Switchgears and Protection System in the existing ISTS 33/11KV Substations of MePDCL.

It may be mentioned and as your good self is aware, the proposal of MePDCL for "Renovation of Protection System in 33/11KV Substations (existing) - MePDCL", was considered for eligible for funding under PSDF, in the 27th TCC & 27th NERPC. The DPR for the aforementioned works was submitted by MePDCL to PSDF Secretariat, NLDC Grid-India, New Delhi, during the month of June 2025. However, till date there is no further correspondence from the PSDF Secretariat, NLDC Grid-India.

The same issue was flagged by MePDCL representatives in 231st OCC Meeting.

Subsequently, a copy of the DPR along with all supporting documents was emailed to NERPC Shillong on the 10th October, 2025.

MePDCL may explain.

TCC may deliberate.



3. PART-B: ITEMS FOR APPROVAL

3.1. Quarterly expenditure of NERPC Board Fund for FY 2025-26

NERPC Board Fund Quarterly expenditure for Q1, Q2 and Q3 of FY 2025-26:

Details of Expenditure from Board Fund from Apr'25 to Dec'25 (in Rs.)					
Si. No.	Head	Actual Expenditure from Apr'25 to Jun '25	Actual Expenditure from Jul'25 to Sept'25	Actual Expenditure from Oct'25 to Dec'25	Total Expenditure Up to Dec'25
1	Meetings	736187	2856591	184910	3777688
2	Outsourcing salary/wages	258249	257394	86822	602465
3	DTE	0	0	0	0
4	Internet	12390	135897	0	148287
5	Conveyance + Honorarium	10000	15000	10000	35000
6	Misc.	54480	3863756	283338	4201574
	Total	1071306	7128638	565070	8765014

TCC may approve.



3.2. Quarterly expenditure of NERPC Establishment Fund for FY 2025-26

NERPC Establishment Fund Quarterly expenditure for Q1, Q2 and Q3 of FY 2025-26:

Proposed revised budget from NERPC Establishment Fund from Apr'25 to Dec'25 (in thousands INR)							
Sl. No.	Head	Budget Estimates 2025-26)	Revised Budget Estimates 2025-26)	Actual Expenditure from Apr'25 to Jun '25	Actual Expenditure from Jul'25 to Sept'25	Actual Expenditure from Oct'25 to Dec'25	Total Expenditure Upto Dec'25
1	Medical	1000.000	132.500	93.308	27.151	8.553	129.012
2	Domestic Travelling Allowances	2500.000	3500.000	1067.4	1124.111	670.55	2862.064
3	Fuels and Lubricants	500.000	326.500	109.13	93.326	6.56	209.012
4	Printing Publication	0.000	0.000	0	0	0	0
5	Advertising and Publicity	0.000	0.000	0	0	0	0
6	Professional Services	10.000	300.000	0	0	0	0
7	Office Expenditure	16000.000	14700.000	2807.9	3317.389	2920.635	9045.927
8	Minor Work	6000.000	17800.000	88.5	3920.574	2582.805	6591.879
	Total	26010.000	36759.000	4166.2	8482.551	6189.103	18837.894

TCC may approve.

3.3. Reappropriation of Budget Estimates (BE) for FY 2023-24: NERPC

In the 25th TCC & 25th NERPC Meetings held at Kolkata held on 8th and 9th December, 2023 held at Kolkata, NERPC Forum accorded approval to a



total Budget Estimate (BE) of ₹20320.00 thousand for the Financial Year 2024–25.

However, the works pertaining to painting at NERPC Campus, waterproofing at NERPC Campus, and minor civil and plumbing works in the Office and Residential Quarters cannot be completed in FY2023-24 due to various restrictions to execute the projects. In view of the above, reappropriation of funds within the approved Budget Estimates for FY 2023–24 is considered necessary to regularize and accommodate the expenditure under the appropriate head of account in FY2025-26.

The **Revised** estimate of the budget for **FY 2023-24** is as follows:

Sub-Head/Minor Head/Name of Scheme	Sanctioned Budget FY 2023-24 (in Thousand Rs.)	Revised Budget FY 2023-24 (in Thousand Rs.)	Remarks
Salary	0	0	Budget for Salary would continue to be provided by CEA/MoP
Medical	800	800	
Domestic Travelling Allowances	2500	2500	
Fuels and Lubricants	400	400	
Printing Publication	60	60	
Advertising and Publicity	250	250	
Professional Services	10	10	
Office Expenditure	10000	10000	
Minor Work	14556.539	3807.539	Pending work of NERPC complex Painting work, water proofing work.
Training	0	0	
Total	28576.539	17827.539	

There is no additional contribution from NERPC Constituents required.

TCC may approve.



3.4. Reappropriation of Budget Estimates (BE) for FY 2024-25: NERPC

In the 25th TCC & 25th NERPC Meetings held at Kolkata held on 8th and 9th December, 2023 held at Kolkata, NERPC Forum accorded approval to a total Budget Estimate (BE) of ₹20320.00 thousand for the Financial Year 2024–25

However, Expenditure of ₹ 6,26,000 incurred to clear PDMS AMC for Q4 of FY2024-25. Approval of the same is already conveyed in 29th TCC and NERPC Meetings held on July 17th &18th, 2025, at Guwahati, Assam. In view of the above, reappropriation of funds within the approved Budget Estimates for FY 2024–25 is considered necessary to regularize and accommodate the expenditure under the appropriate head of account.

The **Revised** estimate of the budget for **FY 2024-25** is as follow:

Sub-Head/Minor Head/Name of Scheme	Sanctioned Budget FY 2024-25 (in Thousand Rs.)	Reappropriation Budget FY 2024-25 (in Thousand Rs.)	Remarks
Salary	0	0	Budget for Salary would continue to be provided by CEA/MoP
Medical	1000	1000	
Domestic Travelling Allowances	2500	2500	
Fuels and Lubricants	500	250	
Printing Publication	60	60	
Advertising and Publicity	250	0	
Professional Services	10	10	
Office Expenditure	10000	10500	
Minor Work	6000	6000	PDMS AMC Payment



Training	0	0	
Total	20320	20320	

There is no additional contribution from NERPC Constituents required.

TCC may approve.

3.5. Reappropriation of Budget Estimates (BE) for FY 2025-26: NERPC

In the 28th TCC and NERPC Meetings held on 20th and 21st February, 2025 at Guwahati, Assam, NERPC Forum accorded approval to a total Budget Estimate (BE) of ₹26,010.00 thousand for the Financial Year 2025–26.

However, the works pertaining to painting at NERPC Campus, waterproofing at NERPC Campus, and minor civil and plumbing works in the Office and Residential Quarters had already been administratively sanctioned under the Financial Year 2023–24 budget. The total sanction under the Minor Works (MW) Head was ₹14,556.539 thousand against which an expenditure of ₹1,154.364 thousand was incurred during that financial year. Owing to the continuation of the said projects, the balance payments are being affected during the Financial Year 2025–26. In view of the above, reappropriation of funds within the approved Budget Estimates for FY 2025–26 is considered necessary to regularize and accommodate the expenditure under the appropriate head of account.

The **Revised** estimate of the budget for **FY 2025-26** is as follow:

Sub-Head/Minor Head/Name of Scheme	Sanctioned Budget FY 2025-26 (in Thousand Rs.)	Revised Budget FY 2025-26 (in Thousand Rs.)	Remarks
Salary	0	0	Budget for Salary would continue to be provided by CEA/MoP



NORTH EASTERN REGIONAL POWER COMMITTEE

Medical	1000	132.5	
Domestic Travelling Allowances	2500	3500	1 MS, 2 Director, 2 DD, and 1 AD (Total-6) got transferred.
Fuels and Lubricants	500	326.5	
Printing Publication	0	0	
Advertising and Publicity	0	0	
Professional Services	10	300	
Office Expenditure	16000	14700	
Minor Work	6000	17800	Civil AMC, Electrical AMC, DG set AMC, NERPC complex Painting work, water proofing work.
Training	0	0	
Total	26010	36759	

There is no requirement for additional contribution from NERPC Constituents, as fund is available and these works were already approved in previous TCC/NERPC meetings.

TCC may approve.



3.6. NERPC Secretariat Establishment Fund Budget Estimates (BE) for FY 2026-27 and Annual Contribution towards “NERPC Secretariat Establishment Fund” For FY 2026-27: NERPC

The proposed BE for **FY 2026-27** is placed below:

Sub-Head/Minor Head/Name of Scheme	Sanctioned Budget FY 2025-26(in Thousand Rs.)	Revised Budget FY 2025-26(in Thousand Rs.)	Budget Requirement FY 2026-27(in Thousand Rs.)	Remarks
Salary	0	0	0	Budget for Salary would continue to be provided by CEA/MoP
Medical	1000	132.5	1000	
Domestic Travelling Allowances	2500	3500	2500	
Fuels and Lubricants	500	326.5	500	
Printing Publication	0	0	0	
Advertising and Publicity	0	0	0	
Professional Services	10	300	500	For CA consultancy services and other similar services.



NORTH EASTERN REGIONAL POWER COMMITTEE

Office Expenditure	16000	14700	18500	Manpower, Security, PDMS: Electricity, Commercial Software, Office consumable, Website AMC, IT/OT Telephone, CCTV, ITAMC, Furniture
Minor Work	6000	17800	10750	Civil AMC, Electrical AMC, DG set AMC, Boundary wall, Firefighting, Gym, Horticulture
Training	0	0	2500	To organize various training for NER Constituents
Total	26010	36759	36250	

The Estimated contribution amount from constituents towards FY 2026-27 will be as follow:

- I. Budget Requirement (in Thousand Rs.):36250
- II. Contribution Yet to receive from (refer **Annexure-3.6**):8902.77
- III. Contribution will be received from Non-Regular Member: 4000
- IV. Net Budget remains for Regular member to contribute (**I-II-III**):
23347.23

Contribution will be as follows:

1. State utilities: 614.401 (in Thousand Rs.)
2. PSUs/Pvt Tx Licensees/Traders: 1843.203 (in Thousand Rs.)
3. Non regular members: 1000 (in Thousand Rs.)

TCC may approve.



3.7. NERPC Board Fund Budget Estimates (BE) for FY 2026-27 and Annual Contribution towards “NERPC Board Fund” For FY 2026-27: NERPC

The proposed BE for **FY 2026-27** is placed below:

NERPC Board Fund (Fy2026-27) (in Thousand Rs.)		
Account Head	Budget Requirement	Remarks
Guwahati Guest House	4000	Rent for property, Electricity Bill and Caretaker manpower Salary etc..
Meetings	3600	Various meeting of NERPC forums and related expenditures and Mic. Expenditures.
Fuels and Lubricants	300	Fuel for Vehicle at NERPC
Total	7900	

The Estimated contribution amount from constituents towards FY 2026-27 will be as follow:

- I. Budget Requirement (in Thousand Rs.):7900
- II. Contribution Yet to receive from (form Manipur for Fy2025-26):100
- III. Contribution will be received from Non-Regular Member:1600
- IV. Net Budget remains for Regular member to contribute(**I-II-III**): 6300

Contribution will be as follows:

1. State utilities: 163.158 (in Thousand Rs.)
2. PSUs/Pvt Tx Licensees/Traders: 489.474 (in Thousand Rs.)
3. Non regular members: 400 (in Thousand Rs.)

TCC may approve.



3.8. Pending contribution of NERPC Establishment Fund contributions: NERPC

A. Regular Member

FY 2023-24		FY 2024-25		FY 2025-26	
Constituents	Payment due (lakhs)	Constituents	Payment due (lakhs)	Constituents	Payment due (lakhs)
TPTL	7.52	APGCL	5.35	AEGCL	5.12
TPGCL	7.52	TPTL	5.35	APGCL	5.12
MSPCL	7.52	TPGCL	5.35	TPTL	5.12
		MSPCL	5.35	TPGCL	5.12
		MSPDCL	5.35	MSPCL	5.12
				MSPDCL	5.12

B. Non-Regular Member

FY 2025-26	
Constituents	Payment Due(lakhs)
NER-II TL(Indigrid)	10

All the concerned constituents are requested to deposit their respective requisite amount towards NERPC Secretariat Establishment Fund for FY 2023-24, FY 2024-25 and FY 2025-26 at the earliest.

3.9. Pending contribution of NEPRC Board funds contributions: NERPC

FY 2025-26	
Constituents	Payment Due (lakhs)
Manipur	1.0

Manipur is requested to deposit the requisite amount towards Board Fund of NERPC for FY 2025-26 at the earliest.



3.10. Status of Audit of NERPC Establishment Fund and NERPC Board Fund for FY 2025-26: NERPC

NERPC Secretariat currently maintains two separate funds:

1. NERPC Secretariat Establishment Fund, and
2. NERPC Board Fund.

In line with the approval granted during the 26th TCC/NERPC meeting, the NERPC Secretariat engaged consultancy services with expertise in finance and accounting to assist in the management of these funds. As a result, an audit was successfully completed by a Chartered Accountant (CA) for the following periods:

1. NERPC Board Fund was audited for the period 1st April 2025 to 30th September 2025 and audit report is enclosed at **Annexure-3.10.1**
2. NERPC Secretariat Establishment Fund was audited for the period 1st April 2025 to 30th September 2025 and audit report is enclosed at **Annexure-3.10.2**

As per Standard Operating Procedure (SOP) for Budget and expenditure of RPCs approved by Chairman CEA and NERPC CBR-2024, Internal Audit for Establishment fund needs to be carried out by the Director level officer.

Internal Audit for Establishment fund for FY 2025-26 by Director Level officer will be carried out in FY 2026-27.

Further, in 26th TCC/NERPC it was decided that to facilitate an external audit of the above-mentioned funds, an audit committee can be formed to carry out audit for FY 2025-26.

Reports of all the three audits will be placed in next TCC/NERPC meeting.



**3.11. Nomination for co-signatory for “NERPC Establishment Fund”/
“NERPC Board Fund” Accounts: NERPC**

As approved in the 26th TCC/NERPC Meeting held on 4th and 5th July, 2024 at Guwahati, Assam, the present authorized signatory arrangement for operation of the “NERPC Establishment Fund” provides that two nos. officers from NERPC Secretariat, namely Assistant Secretary and Drawing and Disbursing Officer (DDO), as nominated by Member Secretary, along with one officer from MeECL, are designated as signatories.

Similarly, in respect of the “NERPC Board Fund,” two officers from NERPC Secretariat, namely Assistant Secretary and DDO, as nominated by Member Secretary, NERPC, are presently authorized as signatories.

It has been observed in practice that, on certain occasions, disbursement of payments has been delayed due to the absence or unavailability of an authorized signatory. In order to obviate such delays and to ensure smooth and uninterrupted financial operations, it is proposed to modify the existing signatory framework for withdrawals from the “NERPC Establishment Fund” and the “NERPC Board Fund.”

Under the proposed arrangement, each of the aforesaid Funds shall have a total of five (5) authorized signatories, comprising:

- I. Two (2) officers nominated from amongst the NER Constituents;
and
- II. Three (3) officers from NERPC Secretariat, as nominated by
Member Secretary, NERPC.

For execution of transactions exceeding ₹1,00,000/- (Rupees One Lakh only), the signatures of the DDO (or, in his/her absence, the designated Backup DDO) shall be mandatory, along with the signature of any one (1) of the remaining authorized signatories. Such additional signatory may be either one of the two nominated officers from the NER Constituents or one



nominated officer from NERPC Secretariat other than the DDO or Backup DDO.

The aforesaid revised signatory arrangement is intended to strengthen financial governance, enhance operational efficiency, and ensure greater transparency and accountability in respect of payments and expenditure from the “NERPC Establishment Fund” and the “NERPC Board Fund.”

TCC may approve.

3.12. Permanent Closure of NERPC Furnishing Fund Account: NERPC

NERPC Furnishing Fund was constituted to meet various expenditures such as procurement of commercial software, NERPC website and their AMC, and other related requirements of NERPC Secretariat upon approval from the Board. As per the Clause 6.1 of NERPC CBR-2024, “NERPC Secretariat shall maintain two funds, namely, ‘NERPC Establishment Fund’ and ‘NERPC Board Fund’.” Accordingly, NERPC has been maintaining two funds (excl. NERPC Furnishing Fund), namely NERPC Board Fund and NERPC Establishment Fund, to meet its various expenditures. In view of the above and in line with the provision of NERPC CBR-2024, it is proposed to permanently close NERPC Furnishing Fund account and transfer the remaining balance to NERPC Establishment Fund.

In the 57th CCM of NERPC, CC forum in principle approved the proposal of NERPC and recommended to place the matter before next NERPC Board.

In view of the above, it is proposed that, instead of transferring the remaining balance to NERPC Establishment Fund, the same may be utilized for the upgradation works of NERPC Conference Hall, Shillong. After utilizing the same, the account will be permanently closed.

TCC may approve.



3.13. Renewal of AMC for PDMS and PSCT system of NER for FY 2026-27: NERPC

As per Protection Code of IEGC, RPCs are required to maintain a centralized database containing relay settings for grid elements. Protection Database Management System (PDMS) & Protection Setting Calculation Tool (PSCT), for NER has been made operational in 2018 vide LOA NERPC/SE(O)/PDMS/2018/4135. It was funded through PSDF. Comprehensive AMC for Protection Database Management System (PDMS) and Protection Setting Calculation Tool (PSCT), currently provided by M/s PRDC, is expiring in March 2026. The PDMS and PSCT system comprise complex set of software, hardware, servers, firewall etc. The AMC of the system is essential for smooth functioning and effective utilization of the system for improvement of protection system of NER region and thus ensuring secure and reliable operation of the grid. In view of the above, renewal of the AMC for the PDMS and PSCT system for the ensuing period is critically required. Accordingly, NERPC is in the process of obtaining the price offer from the vendor. It is, therefore, requested to accord in principle approval for the cost implication towards renewal of the AMC for PDMS and PSCT. The financial implication for the Renewal of AMC for PDMS and PSCT shall be met from the “NERPC Secretariat Establishment Fund”.

In 57th CCM of NERPC, Director, NERPC apprised the forum that NERPC has been operating & maintaining PDMS and PSCT as mandated in IEGC-2023 Rule 14. Further, he informed the forum that quotation for renewal of AMC has been received from M/s PRDC which would be further negotiated for arriving the final cost. CC forum in principle approved the proposal of NERPC for renewal of AMC of PDMS and advised to place the final offer before NERPC Board.

It is further to inform that the negotiation is still under progress and in principle approval may please be given for the renewal of AMC for PDMS and PSCT for FY 2026-27.



Once the negotiated price is finalised, the same would be put up before next NERPC for approval.

TCC may approve.

3.14. Proposal to hire Consultant for Administrative related works at NERPC Secretariat: NERPC

NERPC Office is required to undertake a substantial volume of routine and recurring administrative functions, including maintenance of statutory and non-statutory registers, files, records, and other office documentation on a day-to-day basis. These activities are essential for ensuring compliance with extant Government procedures, audit requirements, and institutional record-keeping standards.

Further, as per the orders/instructions issued by the Central Electricity Authority (CEA), certain Multi-Tasking Staff (MTS) are proposed to be promoted to the post of Lower Division Clerk (LDC). Consequently, the duties earlier performed by the vacant MTS positions, along with various register-maintenance and allied administrative functions, will need to be managed during the transition period. These responsibilities necessitate engagement of a person possessing adequate experience in Government administrative work and office procedures.

It is also observed that contractual manpower engaged through outsourcing agencies often lacks the requisite expertise in Government administrative processes, official drafting standards, record management, and statutory compliance requirements. Such limitations necessitate continuous guidance and supervision to ensure accuracy and procedural compliance.

In view of the above, it is considered necessary to engage one experienced Administrative Consultant (preferably retired Central Govt. Employee) to undertake and supervise the following functions:

1. Systematic arrangement and streamlining of files and records;



2. Compliance of tax, GST, and other statutory/non-statutory registers;
3. Guidance and mentoring of newly inducted outsourced manpower in official drafting, record maintenance, and administrative procedures etc.

The consultant would be paid a fixed remuneration of Rs 30000/month.

Accordingly, the estimated cost of the consultancy services is ₹3.60 lakh per annum, which may be booked under NERPC Board Fund.

TCC may deliberate.

3.15. Roster for next TCC/NERPC Meetings -NERPC

As members of NERPC are aware that TCC & NERPC Meetings are being hosted by constituents on rotation basis. In this regard 32nd to 41st TCC/NERPC meetings have been proposed as:

Sr. No.	Meeting	Hosted by	Last hosted
1.	32 nd TCC/NERPC Meeting	Tripura	14 th TCC/NERPC
2.	33 rd TCC/NERPC Meeting	OTPC	20 th TCC/NERPC
3.	34 th TCC/NERPC Meeting	NVVN	5 th TCC/NERPC
4.	35 th TCC/NERPC Meeting	Manipur	17 th TCC/NERPC
5.	36 th TCC/NERPC Meeting	NEEPCO	22 nd TCC/NERPC
6.	37 th TCC/NERPC Meeting	Meghalaya	18 th TCC/NERPC
7.	38 th TCC/NERPC Meeting	NTPC	25 th TCC/NERPC



NORTH EASTERN REGIONAL POWER COMMITTEE

8.	39 th Meeting	TCC/NERPC	Nagaland	21 st TCC/NERPC
9.	40 th Meeting	TCC/NERPC	Powergrid	26 th TCC/NERPC
10.	41 st Meeting	TCC/NERPC	DoP, AP	24 th TCC/NERPC

TCC may deliberate.



4. PART C: COMMERCIAL ISSUES

4.1. Unallocated share from Lower Subansiri, NHPC: APDCL, MePDCL

A. Assam

The allocation for the Unit-II of Subansiri Lower HEP is received vide order no. NERPC/CC/CSA/2016/6646 -6681 dated 21.12.2025 which is revised by order no. NERPC/CC/CSA/2016/6682-6317 Dated 22.12.2025. The allocation order for the Unit-II and Unit-III together is received by order no. NERPC/CC/CSA/2016/7563-7598 Dated 30.01.2026.

In the allocation orders, Assam is given Share allocation of 7.0905% which is then revised to 6.62% equal to total 33.1 MW from the Unit-II and Unit-III (16.55 MW from each of the unit) from the “Unallocated Share” in excess of its Share allocation from the Firm Power and the Free Power.

In this regard, this is for kind submission that APDCL has not sought any quantum of power from the Subansiri Lower HEP in excess of its Share allocation from the “Firm Power” and the “Free Power” of the plant. APDCL has already done number of PPAs with upcoming plants for the required quantum of power to meet its future long-term demand. Accordingly, the excess hydro allocation from the Subansiri plant will result in the increase in Power Purchase Cost for APDCL which have to be borne by the end consumers of the state.

As such, request has already been submitted not to schedule any power from the “Unallocated Share” of Subansiri Lower HEP to Assam, but the same is being scheduled till date.

B. Meghalaya

MePDCL has surplus Hydro Power, therefore it does not require the same.



In the 57th CCM of NERPC, Member Secretary, NERPC apprised the forum that the unallocated share is allocated as per the regional pool of unallocated shares at All-India level. Accordingly, he advised the MePDCL representative to send a formal letter in this regard to the Ministry of Power, GOI /CEA with a copy to NERPC.

TCC may deliberate.



5. PART D: ITEMS FOR INFORMATION/UPDATE

5.1. Status of Construction of Backup SLDC in NER states: NERLDC

As deliberated in 86th Meeting of the TESC of PSDF held on 22nd October 2024, TESC has communicated the NER States that civil construction for setting of infrastructure for backup control centres at NER SLDCs is not being funded through PSDF as per the laid guidelines. Hence, all NER state has to arrange necessary fund for construction of backup SLDC on their own resources.

The status of construction of backup SLDCs in tabulated, states may provide the updated status:

Sl. No.	Name of state	Status of construction of Backup SLDC as per 30th TCC-RPC meeting	Status Change with Respect to previous (31st) TCC-RPC Meeting
1	Arunachal Pradesh	The matter could not be included in the budget estimate for FY 2025-26 due to uncertainty over PSDF funding of SCADA for Back up SLDC. After clarification, the matter will be incorporated in the revised Estimate.	
2	Assam	Assam informed that land has been identified in Samaguri, and a Detailed Project Report (DPR) with an estimated cost of around ₹8.5 crore has been submitted to the Government of Assam for fund approval.	



NORTH EASTERN REGIONAL POWER COMMITTEE

		The Power Department had raised certain queries, which have been duly addressed by AEGCL. The Department will review the responses, and upon satisfaction, will forward the proposal to the Standing Finance Committee of the Government of Assam, chaired by the Chief Secretary (Power).	
3	Manipur	Location identified at 400kV Thoubal SS. Space required for accommodating UPS and Battery.	
4	Meghalaya	Meghalaya informed that the tender will be floated by December 2025	
5	Mizoram	Budget allocation and administrative approval done, waiting for expenditure sanction. Expected by this FY.	
6	Nagaland	Space ready at New Kohima S/S (New Secretariat)	
7	Tripura	Board approval awaited. TSECL requested to include replica of control centre screen to corporate office in the scope of the work.	

NERLDC requests all state to provide the periodic updates and show a substantial progress before the pre-bid stage of tendering as it will be



difficult to make provision for SCADA/EMS equipment for Backup SLDC afterwards.

Members may update.

5.2. Charging of ISTS and Intra State Elements under NERPSIP without adherence to FTC procedure: NERLDC

During the 30th NERPC & TCC Meeting dated 17-09-2025, agenda item 5.4 Non-compliance of instructions of NERPC Forum by SLDC Tripura regarding First Time Charging (FTC) of elements under NERPSIP and ISTS connected elements were deliberated.

In the said meeting, TSECL assured the Forum that the required documents related to FTC for the charged elements will be submitted by 30-11-2025.

Subsequently, a meeting was held between TSECL, NERPC and NERLDC at Tripura on 04-12-2025 wherein, TSECL assured that all the pending FTC related documents will be submitted within 2 to 3 months.

Again, the matter was deliberated in the 235th OCCM dated 20-02-2026 and in the meeting it was stated that Tripura shall produce all documents as per FTC procedure at the earliest.

As per the current status, TSECL has submitted FTC applications for all ISTS-connected elements, except for the 132 kV SM Nagar (ISTS) – SM Nagar (TSECL) line. However, due to the non-submission of the required documents despite repeated reminders from NERLDC, all the applications remain under process, except for the 132 kV PK Bari–PK Bari (ISTS) line, for which provisional approval was issued by NERLDC on 28-11-2025.

Further, in line with the deliberations of the 189th OCCM, TSECL has yet to submit FTC applications for most of the intra-state elements commissioned



under NERPSIP, while a few applications have been submitted with incomplete documentation.

It is pertinent to emphasize that compliance with all the requirements of the FTC procedure and obtaining the necessary FTC approval from NERLDC for all ISTS-connected elements and FTC consent for intra-state-owned elements is essential to ensure the reliability and security of the Tripura Power System, particularly in view of the upcoming peak demand season.

In view of the above, the matter is once again placed before the Forum for review, with a request to expedite the submission of the required documents and facilitate the issuance of the necessary FTC approval/consent from NERLDC.

The details of FTC application submissions by Tripura are enclosed as **Annexure 5.2.**

Members may update.

5.3. Construction of 2nd Transmission line to Tuirial Power Station of NEEPCO: NEEPCO

NEPPCO vide email dated 26.02.2026 informed that construction of second 132 kV Transmission Line from Tuirial HPS to Bawklang (Kolasib) is yet to be completed, and this affects this station in case of tripping of the only transmission line. The matter has been discussed in OCC as well as TCC meeting time and again.

So, early construction of the 2nd evacuation transmission line for Tuirial HPS by Mizoram for safe and smooth operation of the Tuirial Hydro Electric Power Station is requested.

Mizoram may update.



5.4. Construction of 132kV Monarchak- Surjamaninagar Transmission line: NEEPCO

NEPPCO vide email dated 26.02.2026 informed that due to poor evacuation system of 101MW Tripura Gas Based Power Station (TGBPS), frequent tripping of both the Units has been experienced by NEEPCO over the years. The matter has been time and again discussed in several OCC and TCC Meetings.

TSECL may please be requested to complete the construction work of the said line at the earliest.

TSECL may update.

5.5. Blending of Gas at OTPC Palatana Project: TRIPURA

A. OTPC's Palatana gas power plant in Tripura has faced shortages of natural gas supply for running at optimal levels. To address this, OTPC had put forward a proposal in NERPC/TCC meetings to:

Blend an additional 0.3–0.5 MMSCMD of alternative gas (e.g., from sources like GAIL) with its existing supply so that the plant could operate more efficiently.

This blended gas would help improve generation performance and benefit the beneficiary states that rely on Palatana for electricity.

The proposal included sourcing this additional gas at a price notified by the Ministry of Petroleum & Natural Gas/PPAC and using it for at least 3 years.

In the 28th TCC & NERPC meetings, the blending idea was presented and discussed among member states. The aim was to get consensus from all beneficiary states so that blended gas could be utilized without hurting tariff structures and regulatory approvals.

Then at the 29th TCC & 29th NERPC meetings, OTPC clarified that:



The tariff for the Palatana plant is set by the Central Electricity Regulatory Commission (CERC), not by NERPC.

States had various responses: most supported the blending in principle, but some wanted to consult further.

The forum suggested that Palatana pursue individual state approvals and then take the tariff matter to CERC. NERPC's role was to facilitate the discussions rather than make a binding tariff decision.

NERPC/TCC forum did not approve a binding decision on gas price blending for Palatana. Instead, it recommended further state approvals and regulatory steps before blended gas could be used.

There wasn't a formal acceptance of OTPC's proposed pricing in those forums — meaning the idea was discussed but not agreed upon.

As such, when Tripura's Power Minister spoke about the outcome of these discussions, his point was essentially that the blending proposal has not yet been fully approved at the forum level and pricing aspects remain subject to further decision-making outside of NERPC/TCC, including by CERC and the beneficiary states themselves.

OTPC proposed blending additional gas with its existing supply at a certain price for more reliable generation.

NERPC/TCC discussed it but did not fully approve the pricing or implement the proposal; they recommended further state approvals and regulatory process, especially because tariff is under CERC's purview.

Hon'ble Power Minister of Tripura's remark reflects this — the proposal wasn't accepted/ratified in those meetings yet, especially on pricing grounds.

Excess gas supply if any by ONGC/Gail and for that the increase generation by OTPC may be discussed and clarified in the coming TCC/NERPC meeting.



B. Petition under Regulation 76 and 77 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 read with Regulations 111, 112, 113 and 114 of the CERC (Conduct of Business) Regulations, 1999 and Regulations 65, 66, 67 and 68 of the CERC (Conduct of Business) Regulations, 2023 seeking recovery of capacity charges for the period of non-availability of fuel for reasons beyond the control of the Petitioner and relaxation of operating norms for the 726.6 (2 x 363.3) MW combined cycle gas based power Palatana project of ONGC Tripura Power Company Limited for the control period 1.4.2019 to 31.3.2024.

Earlier OTPC has filed one petition regarding this issue and got one time consideration from CERC. As per earlier order of CERC in the year 2016 , it was mentioned that relaxation is allowed for one time only. CERC rejected second appeal for extension of the relaxation, which is not mentioned in the present petition. Now, OTPC has again approached the Central Electricity Regulatory Commission (CERC) seeking relaxation of the Normative Annual Plant Availability Factor (NAPAF) for the control period 2019–24.

ONGC is a promoter of OTPC, holding a 50% stake. Therefore, ONGC effectively receives 50% of OTPC's profits while supplying less gas than the plant's actual requirement. Given the lack of external gas infrastructure in Tripura, the sourcing of additional supply remains a crucial, unanswered question.

Tripura may update.



6. PART E: ITEMS RECOMMENDED FOR REFERRAL TO SUB-COMMITTEE

6.1 Regional Cyber Security Coordination Forums for NER: NERPC

The Government of India, through Information Technology Act-2000 laid the foundation of CERT-In, an organization dedicated to the cause of Cyber Security Standards,

Compliances, Incident Response and Guidance. The GoI, Ministry of Power, CEA and Central Electricity Regulatory Commission brought in multi-layered approach to coordinate cyber defence, considering the intensity and complexity of the cyber threat perceptions in Indian Power Sector.

Brief of the relevant Regulations with respect to regional-sub-sectoral coordination forums are given under:

- i. Clause 53(1) & (2) of IEGC 2023 stipulate as below:
 - a) The sectoral CERT (Computer Emergency Response Team) for wings of power sector, as notified by Government of India, from time to time, shall form a Cyber Security Coordination Forum with members from all concerned utilities and other statutory agencies to coordinate and deliberate on the cyber security challenges and gaps at appropriate level. A sub-committee of the same shall be formed at the regional level.
 - b) The sectoral CERT shall lay down rules of procedure for carrying out their activities.
- ii. The draft Central Electricity Authority (Cyber Security in Power Sector) Regulations, 2025 proposes the following (at Clause 5):

The Authority through separate order may also designate sub sectoral CERTS in Power Sector for Generation, Transmission, Distribution, Grid Operation and any other sub-sector, along with their roles and responsibilities, to assist CSIRT-Power.



The Government of India after reviewing the needs of Cyber Security in Critical Infrastructure Sector, created dedicated Sectoral CERTs. Following the directives of GOI/ CERT-In, MOP created six sectoral CERTs and designated nodal organisations, as listed below:

S.No.	Sectoral CERT	Nodal Organization
1	CERT – Thermal	NTPC
2	CERT – Hydro	NHPC
3	CERT – Transmission	POWERGRID
4	CERT – Distribution	DP&T Division, CEA
5	CERT – Grid Operation	NLDC
6	CERT – Renewable Energy	MNRE/SECI

The status of Regional Cyber security Coordination Forum(Thermal, Hydro and Transmission) in NER may be discussed.

6.2 Implementation of Travelling Wave Fault Locator (TWFL) on critical transmission lines in NER: NERPC

In the 80th NRPC meeting held on 18.07.2025, a proposal received from POWERGRID for Implementation of Travelling Wave Fault Locator (TWFL) in hilly terrains, Critical Renewable, & NCR transmission lines in Northern Region was discussed. After detail deliberation, NRPC forum decided to formulate a sub-group, comprising members from CEA, CTU, NRPC, NRLDC, PowerGrid, Indigrid, ATIL, Sterlite, Sekura, RVPNL, PTCUL, HPPTCL and JKPCTL with the following Terms of Reference (ToR):

- a. Formulate criteria to identify critical transmission lines that warrant the installation of TWFL, based on operational importance and reliability considerations.



- b. Evaluate the restoration benefits of TWFL specifically in terms of fault location and faster restoration by comparing scenarios with and without TWFL, using data provided by POWERGRID for lines where TWFL is already implemented.

Accordingly, based on nominations received from concerned utilities, Sub-group was formed under Chairmanship of SE (O&P), NRPC. Sub-group held two meetings on 28.08.2025 and 17.10.2025 respectively. Further, a physical visit at POWERGRID Meerut S/s was conducted by a team comprising of members from CEA, NRLDC, CTU and NRPC Secretariat on 19.09.2025 to understand the functioning of the TWFL system and to evaluate the benefits of its installation on transmission lines.

After deliberation in the meetings, sub-group members agreed that;

- a. Travelling Wave-Based Fault Locator (TWFL) has emerged as a highly advanced and precise fault location technology. This is useful for quickly identifying the fault location with accuracy (± 500 m error), which directly contributes to reduced outage durations, improved system availability, and enhanced reliability of the transmission network.
- b. TWFL implementation may be taken up in a phased manner. Following criteria may be used to identify critical transmission lines for installation of TWFL in the first phase:
 - i. 220kV, 400kV and 765 kV lines having length more than 200 Km.
 - ii. 220kV, 400kV and 765 kV lines used for evacuating nuclear and RE Power having length more than 150 Km.
 - iii. 220kV and above lines in hilly terrain.
 - iv. Inter-regional 220kV and above lines having length more than 150 Km.
- c. A policy may be formulated by CTU for implementation of TWFL in intra-state lines.



In 81st NRPC meeting held on 31.10.2025, CTU opined that policy for Implementation of Travelling Wave Fault Locator (TWFL) for ISTS and intra state lines may be formulated by CEA in consultation with CTU, Grid-India and all other NR stakeholders.

NRPC Forum was of view that the agenda maybe discussed at subcommittee meetings of RPC and the recommendations may be discussed at the NPC level for uniform policy decisions at the pan-India level.

Sub-committee may deliberate.

6.3 Uniform criteria on Harmonics measurement in the grid: NERPC

In the 16th NPC meeting held on 04.07.2025, it was decided that Grid- India may prepare draft guidelines for uniform criteria on harmonic measurement and other parameters in accordance with the provisions of the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations and it was also decided that installation of harmonic measurement instruments shall be mandated for all new ISTS projects to be approved by the NCT.

Grid- India vide email dated 02.02.2026 submitted the draft guidelines (attached at **Annexure-6.3**) for uniform criteria on harmonic measurement and other parameters in accordance with the provisions of the Central Electricity Authority.

Sub-committee may deliberate.

6.4 Status of Emergency Restoration System (ERS) for NER: NERPC

Ministry of Power vide DO letter dated 05.12.2014 highlighted the necessity of deployment of adequate ERS infrastructure with the states and requested states to issue necessary directives to Transmission utilities/Transmission



lines operating in states to procure appropriate number of ERS infrastructure and placed them at strategic location.

As per MoP Guidelines dated 05.12.2014, the ERS requirement is linked to the circuit kilometer (ckm) of transmission lines operated by a licensee:

- a. <500 ckm: May enter into mutual agreement for ERS sharing.
- b. 500–5000 ckm: Minimum 1 ERS set to be maintained.
- c. >10,000 ckm: Minimum 3 ERS sets to be maintained and so on.

Note: In the MoP guidelines, the minimum no. of towers (tension & Suspension) to be considered while utilities are procuring the ERS set is not mentioned.

As per the deliberations held on 10.05.2025 under the chairmanship of Secretary (P) on the review of disaster preparedness on grid operations and transmission system restoration, it was decided that CEA would:

- (a) issue SOP for the restoration of transmission system, and
- (b) issue directions to the SERCs/SLDC/Utilities concerned to ensure that generating stations of islanding schemes are accorded most run status.

In response, PSE&TD Division, CEA vide letter dated 11.05.2025, has been issued SOP for the restoration of transmission system and NPC Division, CEA vide letter dated 11.05.2025 has been issued directions to the SERCs, SLDC, RPCs and Utilities concerned to ensure that generating stations of islanding schemes are accorded most run status.

Further, the details regarding the status of availability of ERS entity wise were sought by NPC Division, CEA from all RPCs and POWERGRID and RPCs were also requested vide email dated 18.11.2025 to update the status of availability of the Emergency Restoration System (ERS) in their region in every OCC meeting, based on data up to the last day of the preceding month and also include the status of ERS in the Minutes of the OCC meeting.



In the review meeting of RPCs held under the Chairpersonship of the Chairperson, CEA on 02.02.2026, Chairperson, CEA directed to refer the matter to PSETD, CEA to examine and standardize the minimum number of towers required to be maintained in an ERS set considering tension and suspension tower numbers.

Sub-committee may deliberate.

6.5 Submission of Remote Site Details and Backup Control Centres of Assam, Arunachal Pradesh, Mizoram, Tripura, and Manipur for the VoIP Communication System Project: POWERGRID

The scheme "*Supply and Installation of VoIP Communication System including Phones, Voice Recorder, etc., for Grid Operation for all Five Regions (NR, NER, SR, WR, ER) at NLDC, RLDCs, and SLDCs*" has been approved in 27th NCT dated 24.02.2025 and the CTU OM dated 24.02.2025 issued for implementation of the scheme on RTM basis to POWERGRID.

The broad scope of the scheme includes supply and installation of **VoIP phones and PoE switches** at local and remote stations, along with establishing **main and backup control centres** for NLDC, RLDCs, SLDCs, and the International Exchange to create an integrated communication network across the country.

Further, POWERGRID awarded to the M/s Orange for implementation of the scheme. The broad scope for NER region includes:

- **2 (Main + Backup) Control Centres for NERLDC,**
- **2 (Main + Backup) Control Centres each** for the SLDCs of **Assam, Arunachal Pradesh, Mizoram, Tripura, Manipur, Nagaland, and Meghalaya,** and



- **Supply and installation of approximately 900 VoIP phones and PoE switches** across remote locations associated with these control centres.

Current Status:

A kick-off meeting was held on 19.01.2026 and all the Constituents were asked to share the information regarding the Address/location of SLDCs (Main & Backup), availability of space and also the address of the Substations where VoIP phones are to be installed.

- M/s Orange has completed surveys at the **Main and Backup NERLDC** and most of the **Main SLDC control centres excluding Assam Main Control centre.**
- Surveys for the **Nagaland and Meghalaya Backup Control Centres** are ongoing.

Issue:

1. M/s Orange has reported **pending confirmation of backup control centre locations** for the following SLDCs:
 - Assam
 - Arunachal Pradesh
 - Mizoram
 - Tripura
 - Manipur
2. Further, M/s Orange reported for non-confirmation of space in Assam main control centre, Guwahati. This delay is affecting the timely progress of survey and installation activities.
3. The address of substations was not made available hence the M/s Orange could not do sample survey and finalise the requirement of material for the substations (sites).



Proposal:

NERPC Secretariat and the concerned state utilities may be requested to **expedite submission of complete remote site details**, including **Backup control centre locations**, to facilitate timely implementation of the project by M/s Orange.

In case, the Backup SLDC is not ready or will not be ready in another 6 months, the VoIP system of Backup SLDC can be descoped as there is failover redundancy available at NER RLDC level and another level of failover at NLDC level.

Also, if the Substation addresses are not provided, then the BoQ for the substation shall be accordingly descoped.

Action Required:

All stakeholders of the NER Region are requested to **urgently furnish the pending remote site details** by 31.03.2026 to ensure adherence to the implementation timelines of the VoIP Communication Project. Else, the Constituents are requested to confirm the descoping of the Backup SLDC and the VoIP phones at substations.

Sub-committee may deliberate.

6.6 Elements to be Taken Over by Respective State Utilities under NERPSIP: POWERGRID

As per MoP mandates, the completion of timeline of NERPSIP is 31st Mar'26. In this context, the necessary support /direction to be issued to the concerned officer for timely taking over of the balance elements along with communication link under NERPSIP. The state-wise list enclosed as **Annexure-6.6**.

Sub-committee may deliberate.



6.7 Reimbursement of balance State GST Component NERPSIP and CTDS-AP: POWERGRID

Against total SGST claim of ₹352.08 Cr (up to Dec'25) under NERPSIP, reimbursement of ₹113.00 Cr. is balance from States:

- Manipur: ₹15.33 Cr,
- Tripura: ₹19.08 Cr,
- Nagaland: ₹22.90Cr,
- Meghalaya: ₹43.16Cr,
- Mizoram: ₹7.06Cr
- Assam: ₹5.47Cr.

For CTDS-AP, against total SGST claim of ₹236.9 Cr, reimbursement of ₹160.00 Cr. is balance from Arunachal Pradesh.

Sub-committee may deliberate.

6.8 Installation of OPGW on the Jointly Owned AEGCL-MePTCL Deemed ISTS Line: MePTCL

The Inter-State Transmission System (ISTS) line connecting the systems of AEGCL (Assam) and MePTCL (Meghalaya) is a "Deemed ISTS" asset jointly owned by both utilities. Since its commissioning, the line has been operating with conventional earth wire and without Optical Ground Wire (OPGW) connectivity.

In the current regulatory and technical landscape, reliable real-time data communication is a mandatory requirement for:

- Grid Visibility: Ensuring seamless telemetry data transfer to SLDCs and RLDCs.
- Protection Systems: Facilitating high-speed line differential protection and carrier-aided tripping.
- CEA Compliance: Meeting the Technical Standards for Communication System in Power System Operations.



MePTCL proposes to initiate the laying of OPGW on the aforementioned line to modernize the communication corridor. Given the joint ownership of the asset, MePTCL seeks to formalize the implementation plan and coordination strategy.

MePTCL requested the forum, and specifically the competent authority of AEGCL, to provide in-principle consent for MePTCL to propose and execute the OPGW laying.

Sub-committee may deliberate.

6.9 Shifting of vulnerable location No. 124- 127 & 174, 175 of 132KV Roing-Pasighat Transmission Line: POWERGRID

The Location no.124-127 and 174, 175 of 132KV Roing-Pasighat transmission line, is critically affected due to the river course change of the Siang River.

Vide NERPC Office order no: NERPC/MS/2025-26/2602-2607 dtd. 14/10/2025, a subgroup comprising of members from NERPC, NERLDC, POWERGRID, AEGCL, Arunachal state (APEC/DoP) was formed for the inspection of vulnerable locations of 132 kV Roing – Pasighat line and to suggest recommendations to address the problem.

The committee members visited the site on 23.10.25 and observed that the river Siang has significant impact on the surrounding infrastructure and environment. The erosion has also led to shifting of the local habitat near the river bank, disrupting the ecological balance in the area. The Public Works department (WRD) of Ar. Pradesh have also noted the change of course of the Siang River and the threat it poses to nearby infrastructures. The unpredictable changes in the river's course further complicates the efforts to manage the river bank and protect the surrounding areas.



The committee recommended that for diversion of tower loc 124-127 of 132 kV Roing-Pasighat line, 4 nos of new pile foundations with higher body extension will be required. Similarly, for diversion of tower location 174 & 175 of the same line, 2 nos new pile foundations will be required to save the line from the danger of massive soil erosion of Siang river.

In 235th OCC Meeting, the forum in principle agreed for the preventive shifting of the said towers.

Estimate cost for shifting of location no. 124-127 and 174 & 175 of 132 kV Roing -Pasighat line using pile foundation is ₹24 Crs. Powergrid has requested to consider this cost under ADD-CAP of this line.

Sub-committee may deliberate.

6.10 Outage of 400kv Palatana-SM Nagar(ISTS) T/L and 132kv Palatana-SM Nagar(TSECL) TL for construction of multi circuit tower in place of 03 nos ERS installed in between loc 91 & 92 of 400 kV Palatana-SM Nagar T/L: POWERGRID

The D/C Palatana-Surjamaninagar Transmission Line connects the generating station OTPC, Palatana to Surjamaninagar TSECL SS (charged at 132 KV) through one circuit and Surjamaninagar ISTS Indigrid SS (charged at 400 KV) through the other circuit.

For crossing over of the two circuits in between Location 91 & 92 during commissioning of 400KV Palatana-SM Nagar (ISTS) TL, three nos ERS towers have been installed in June 2021. Now due to uncertainty of upgradation of TSECL Bays from 132KV to 400 KV, it has been decided in the 22nd NERPC Meeting that permanent measure may be taken by POWERGRID in place of the already installed ERS towers.

It is planned for installation of 01 no Multi Circuit Tower in place of 03 nos ERS. Accordingly, Tower was spotted and Foundation works have already been completed. The proposed multi circuit tower loc. has been spotted near



the two nos ERS in between Loc 91 & 92 on account of space constraints and on technical grounds.

The construction of Mult circuit Tower for shifting of 132kV Palatana-SM Nagar (TSECL) TL from ERS towers is not at all possible without the continuous shutdown of 400kV Palatana-SM Nagar (ISTS) TL and 132kV Palatana-SM Nagar (TSECL) TL.

Feasibility of ERS:

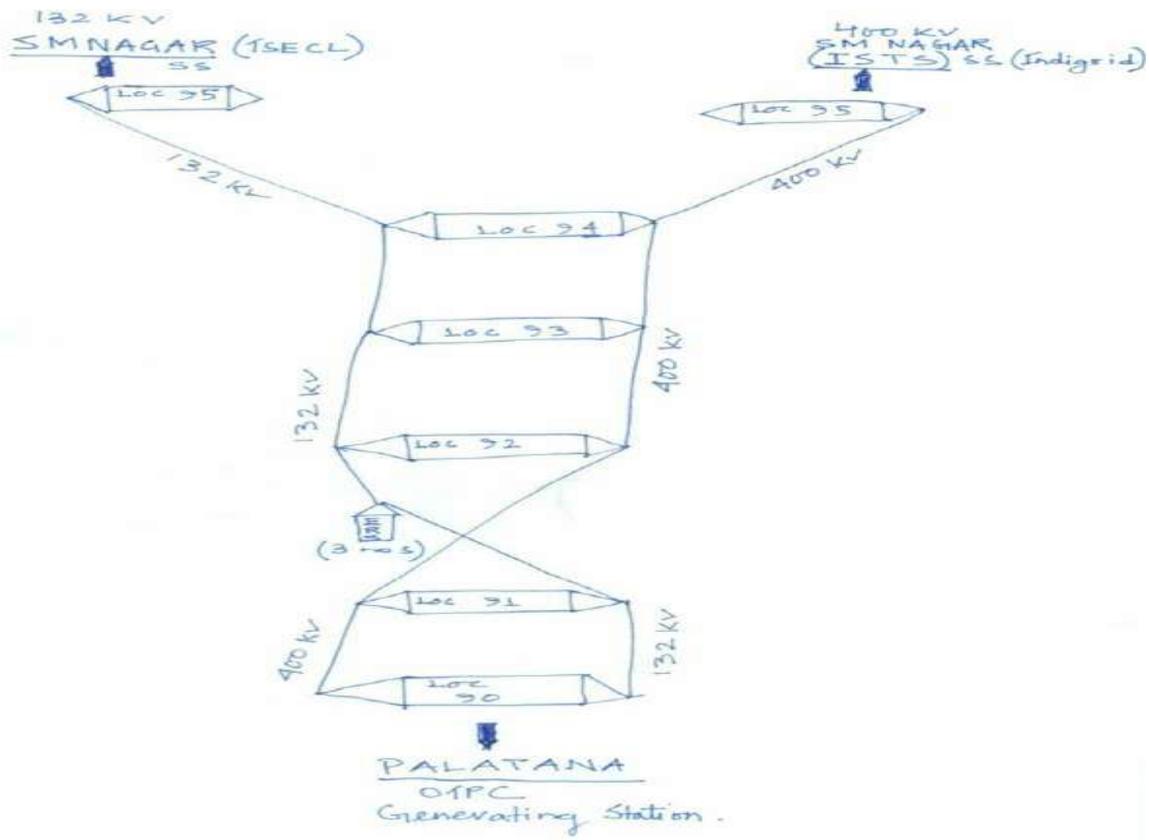
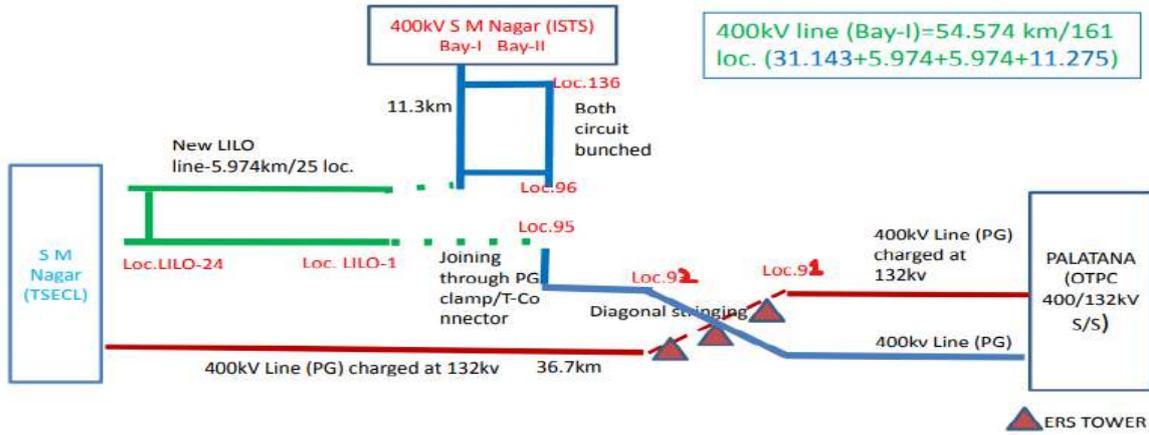
ERS erection is not feasible due to space constraint as already three nos ERS are installed in this span.

In view of the above, the construction of Mult circuit Tower for shifting of 132kV Palatana-SM Nagar(TSECL) TL from ERS towers requires the minimum 30 days continuous shutdown of 400kV Palatana-SM Nagar(ISTS) TL and 132kV Palatana-SM Nagar(TSECL) TL as it involves the following huge works and same was proposed in the month of January/February 2026 which not was not approved in the 234th OCC Forum:

- Removal of jumpers and spacers of all the phases of all the towers.
- Destringing of conductor (Twin Moose) from all 03 nos ERS Towers.
- Dismantling of 03 nos ERS Towers.
- Back stay arrangements of the Towers before destringing of conductors.
- Destringing of existing conductor of all 3 phases of 400kV Palatana-SM Nagar (ISTS) TL in between Loc 91 & 92.
- Erection of Multi Circuit Tower.
- Stringing of 02 circuits (3 phases each) through the Multi Circuit Tower.
- Removal of back stay arrangement.
- Fixing of spacers and other accessories between conductors in all 6 phases.
- Jumpering works of all 6 phases i.e., 2 circuits.



Present Scheme of 400KV Palatana-SM Nagar TL



Subcommittee may deliberate.



6.11 Shutdown of Loktak Power Station (105 MW) for Undertaking Renovation & Modernization Works: NHPC

Loktak Power Station (3×35 MW) was commissioned during April–May 1983 and completed its normative useful life of 35 years in May 2018 in accordance with the CERC Tariff Regulations, 2014. Subsequently, Hon'ble CERC, vide Order dated 24.07.2019 in Petition No. 248/MP/2018, accorded in-principal approval for Renovation & Modernization (R&M) of the station for life extension, with an approved Financial Investment (FI) of ₹273.59 crore (including IDC & FC) at September 2017 price level.

Post R&M, the Design Energy of Loktak Power Station shall increase to 562.73 MU from the existing 448 MU.

Present Status:

The approved R&M scope includes refurbishment/replacement of Electro-Mechanical equipment, control & protection systems, associated auxiliaries, GSU transformer, and balance of plant systems. Execution of these works necessitates shutdowns of the generating units as well as complete shutdown of the power station in a phased and planned manner.

- **Civil Works:**

- Out of 5 civil packages, works of 4 packages have been completed.
- 1 civil package is under progress.
- HM package is under progress with approximately **66% completion.**

- **Electro-Mechanical Works:**

- Out of 5 EM packages, 3 packages have been completed and 2 are under progress.
- Supplies for major EM packages—Generators, Turbine & Accessories, Digital Governing System, Main Inlet Valve,



Butterfly Valve, Static Excitation System, and Control & Monitoring (SCADA) System—have been received.

- BHEL teams alongwith other vendors are being mobilized at site for execution.

For execution of common auxiliaries, shutdown of all units is essential. Accordingly, a complete shutdown of the power station for six months has been envisaged, during which R&M works of one unit shall also be undertaken. Thereafter, unit-wise shutdowns will be carried out sequentially while keeping remaining units available for generation.

The **overall completion period** of the R&M works is **19 months**.

The complete shutdown of Loktak Power Station during November 2025-April 2026 was approved in LGBR, and the CEA-approved Generation Outage Plan for FY 2025-26 was also discussed in the **224th OCC Meeting** of NERPC. As per the approved plan, the complete shutdown of Loktak Power Station was scheduled from November 2025 to April 2026 (six months). However, due to logistical constraints and delay in supply of materials by BHEL, the schedule could not be adhered to. The progress of the project was reviewed in January 2026, and a tentative shutdown plan was intimated to NERPC vide email dated 03.01.2026, followed by submission of a detailed shutdown schedule vide letter No. NH/O&M/R&M/01A/1071 dated 28.01.2026.

Proposal:

Generation from Loktak Power Station is presently minimal and showing a declining trend. Considering the advanced stage of R&M preparedness and mobilization of contractor manpower at site, it is operationally prudent to commence the shutdown as planned.



NORTH EASTERN REGIONAL POWER COMMITTEE

Accordingly, as intimated vide NHPC letter No. **NH/O&M/R&M/01A/1071 dated 28.01.2026**, complete shutdown of Loktak Power Station was planned w.e.f. **03.02.2026**, as per the schedule below:

Sl. No.	Shut Down Schedule	Start Date	End Date	Shut Down Period in Months	Remarks
1	Complete Shutdown of Plant	03.02.2026	02.08.2026	Six	
2	1 st Unit Stand Alone Shut Down	03.08.2026	02.11.2026	Three	2 Units shall be available for generation
3	2 nd Unit Stand Alone Shut Down	03.11.2026	02.04.2027	Five	
4	3 rd Unit Stand Alone Shut Down	03.04.2027	02.09.2027	Five	

The issue was raised in 235th OCC meeting held on 20th February wherein Manipur has objected to the proposal in view of upcoming monsoon season, absence of power availability at Noney and Tamenglong districts due to outage of Rengpang feeder and probable flooding of nearby areas of Loktak lake. SLDC, Manipur was directed by NERPC to make suitable arrangements for addressing the issue of outage of Rengpang feeder.

In this context it is assured that out of complete shutdown period of six months, complete shutdown of switchyard will be for a duration of 40 days at a stretch and further intermittent shutdowns of 2-5 days as per requirement for the remaining period of complete shutdown.

Accordingly, shutdown schedule for RMLE works is proposed hereunder;

Sl. No.	Shut Down Schedule	Start Date	End Date	Shut Down Period in Months	Remarks
1	Complete Shutdown of Plant alongwith Shutdown of 1 st Unit	16.03.2026	15.09.2026	Six	



NORTH EASTERN REGIONAL POWER COMMITTEE

2	1 st Unit Stand Alone Shut Down continued	16.09.2026	15.12.2026	Three	2 Units shall be available for generation
3	2 nd Unit Stand Alone Shut Down	16.12.2026	15.05.2027	Five	
4	3 rd Unit Stand Alone Shut Down	16.05.2027	15.10.2027	Five	

In the context of NHPC's letter dated 28.01.2026 and NERPC advice vide email dated 02.02.2026 the proposed shutdown of Loktak Power Station for execution of approved R&M works is placed before the TCC/NERPC forum for kind consideration and concurrence. The complete shutdown of Loktak Power Station shall follow with the approval of the TCC/NERPC forum.

Subcommittee may deliberate.

Action taken report by NERPC Secretariat

SI No	ISSUES	TCC/NERPC MEETING	MEETING DELIBERATION	Action taken/to be taken
1	Workforce Adequacy at Load Despatch Centres and review of Workforce guidelines of Ministry of Power for manpower position in SLDCs	30th TCC/NERPC	To send a resolution to Ministry of Power to review the Manpower requirement for Meghalaya, Mizoram, Tripura and Nagaland states as per the revised quantity and request for amendment in workforce guidelines accordingly	Resolution sent in Nov'25
2	Re-conductoring & strengthening of 132kV Transmission Lines of AEGCL by HTLS Conductor along with Terminal equipment to avoid overloading	30th TCC/NERPC	To send a resolution to MoP through HPM Meghalaya and Chairman NERPC on this matter to address the issues and provide the fund to NER State as special dispensation thorough PSDF or any other fund	Resolution sent
3	Capacity building for NER constituents on emerging technologies of Power Sector to be funded through PSDF or any other funds NERPC	30th TCC/NERPC	Forum agreed, in-principle, to the proposal of self-funding. Member Secretary, NERPC stated that the amount of contribution (utility wise) required and other details will be presented in the next RPC meeting.	Under Finalisation
4	Inclusion of HPX in various NERPC forum as non-member Participants	30th TCC/NERPC	Member Secretary, NERPC, informed that during the 56th CCM, it was agreed in principle to consider HPX as non-member participant of NERPC forum. After detailed deliberation, the TCC endorsed the decision of 56th CCM and referred to NERPC forum.RPC endorsed the decision TCC forum.	HPX has been included as a non-member Participants
5	Approval for procuring service for deployment of 13 no. of outsource staff and 09 nos. Security Staff for NERPC Secretariat	30th TCC/NERPC	Member Secretary, NERPC, briefed the requirement of additional outsourcing staff and Security Staff at NERPC Secretariat as per the assessment of internal NERPC committee. The forum endorsed the requirement of the NERPC Secretariat for 13 no. of outsource staff and 09 nos. Security Staff. RPC endorsed and concurred the decision TCC forum.	1. 9 no. of outsource staff and 09 nos. of Security Staff have been deployed for NERPC Secretariat 2. Deployment of 4 no. of outsource staffs is under process

6	Improvement of Switchyard Earthing System at the following Power Stations of MePGCL MePGCL	30th TCC/NERPC	To send a resolution to MoP through HPM Meghalaya and Chairman NERPC on this matter to address the issue and provide the funds to NER State as aspecial dispensation thorough PSDF or any other fund	Resolution sent
7	Implementation of Digital Tele-Protection Coupler (DTPC) in all 132kV Feeders of MSPCL MSPCL	30th TCC/NERPC	To send a resolution to MoP through HPM Meghalaya and Chairman NERPC on this matter to address the issue and provide the fund to NER State as special dispensation thorough PSDF or any other fund	Resolution sent
8	DPR for Implementation of Digital Substation Control Protection & Substation Automation at LTPS, NRPP & KLHEP System of APGCL	30th TCC/NERPC	To send a resolution to MoP through HPM Meghalaya and Chairman NERPC on this matter to address the issue and provide the fund to NER State as special dispensation thorough PSDF or any other fund.	Resolution sent
9	Installation of DTPC for Protection Scheme and Replacement of Control & Relay Panels for R&M of EHV Sub-Stations in Nagaland.	30th TCC/NERPC	To send a resolution to MoP through HPM Meghalaya and Chairman NERPC on this matter to address the issue and provide the fund to NER State as special dispensation thorough PSDF or any other fund .	Resolution sent
10	Bus Strengthening of 132kV and 33kV system at 132/33/11kV Kohima Sub-station	30th TCC/NERPC	To send a resolution to MoP through HPM Meghalaya and Chairman NERPC on this matter to address the issue and provide the fund to NER State as special dispensation thorough PSDF or any other fund.	Resolution sent
11	Communication Audit for the systems installed at ISTS/SLDC stations of NE Region	30th TCC/NERPC	MS NERPC stated that NERPC will undertake communication audit of all the substations for which data have been submitted at the earliest.	SLDC Meghalaya and 132 kV Nehu SS communication audit has been completed and audit report has been shared for due compliance

After deliberations, Monitoring Committee approved the recommendation of the Appraisal Committee to de-sanction the above proposal.

3.2 SCADA/EMS projects for 7 NER states (Proposals 462 to 468):

It was apprized to the committee, that the proposals for the Upgradation of Hardware, Software and Associated System for SCADA EMS in 7 State Load Despatch Centres of NER region, recommended by the Appraisal Committee were considered in 25th meeting of the Monitoring Committee held on 13th June 2025. During the meeting, Monitoring Committee suggested that, instead of installing separate SCADA/EMS hardware and software at seven different locations, a single centralized SCADA/EMS system could be installed at one location to serve all seven SLDCs of the NER, with separate front-end systems at each SLDC control center. To examine this proposal, a three-member group was constituted comprising of JS&FA (MoP), Member (Power System), CEA, and CMD Grid-India.

Accordingly, a 3-member group reviewed the project in line with the recommendation of Monitoring Committee & observed the centralized SCADA-EMS may not be a viable solution considering several technical issues and that the centralized SCADA-EMS system may pose significant challenges from Operation, Maintenance and Ownership point of view and recommended individual SCADA/EMS for each SLDC of NER.

After deliberations, Monitoring Committee approved the proposal and directed to execute the project through POWERGRID via the RTM route, with 70% funding provided as a grant through PSDF and remaining 30% cost to be recovered through tariff. It was also decided that the consultancy charges of POWERGRID to the extent of 100% will be funded through PSDF. The POWERGRID shall be the implementing agency for this project and the PSDF grant shall be released to POWERGRID in line with PSDF guidelines. The sanction order will be issued after acceptance of the above by the States.

3.3 Proposal of MSETCL, Maharashtra-Implementation of Nagpur Islanding Scheme under EHV PC O&M Zone, MSETCL, Nagpur (Proposal No. 447):

Monitoring Committee was apprized that Appraisal Committee has recommended the proposal of MSETCL, Maharashtra for “Implementation of Nagpur Islanding Scheme under EHV PC O&M Zone, MSETCL, Nagpur (Proposal No: 447)” at total recommended grant of ₹ 16.03 Crore [90% grant for Islanding Portion i.e. ₹ 9.19 crore, and 50% grant for OPGW Portion i.e. ₹ 6.84 crore] in accordance with Clause 6.2 (ii) of the PSDF Guidelines-2024 for sanction.

Monitoring Committee approved the proposal with recommended grant of 13.99 crore [i.e ₹ 7.15 crore (70% of ₹ 10.21 crore) and grant of ₹ 6.84 crore for OPGW portion (50% of ₹ 13.67 Crores)].

3.4 Proposal of JdVVNL, Jodhpur, Rajasthan - Installation of Dynamic/ Automatic Capacitor Banks on 11 kV side of 33/11 kV Sub-stations under PSDF Scheme (PSDF support of Rs. ₹164.16 Cr) (Proposal No: 347)

It was apprized to the committee that JdVVNL has submitted a proposal for installation of Capacitor Bank for Agriculture-connections under PSDF. However, the PMG and the Appraisal Committee have recommended the capacitor projects to be treated as Business-as-Usual projects.

Cost estimate for Supply, Installation and Commissioning of NER-SLDCs for SCADA/EMS Upgrade

Sl. No.	Name of State	Project Cost	PSDF	PG Equity	Tariff yearly (per year for Seven years)
1	Assam	₹72.32 Cr	70%	30%	₹7.31 Cr
2	Tripura	₹69.17 Cr	70%	30%	₹7.00 Cr
3	Meghalaya	₹70.13 Cr	70%	30%	₹7.09 Cr
4	Manipur	₹68.50 Cr	70%	30%	₹6.93 Cr
5	Mizoram	₹66.08 Cr	70%	30%	₹6.68 Cr
6	Nagaland	₹68.86 Cr	70%	30%	₹6.96 Cr
7	Arunachal Pradesh	₹69.54 Cr	70%	30%	₹7.03 Cr

Annexure-II**POWERGRID CORPORATION OF INDIA LTD.****COST ENGINEERING DEPARTMENT****ABSTRACT COST ESTIMATE****NER SCADA Upgradation (LD-2026001)****(September 2025 Price Level)****Rs. in Crore**

Sl. No.	Description	Amount
	Equipment Cost	
A	Supply	
i	SCADA System	278.80
	Sub- Total A	278.80
B	Installation, Testing and Commissioning	42.90
C	Inland Freight and Insurance (@ 8%)	22.30
D	Taxes and Duties	
i	GST @ 18% (on Supply cost & Services)	57.9064
	Total (A to D)	401.91
E	Incidental Expenditure during Construction (@ 10.75%)	43.21
F	Contingency (@ 3%)	12.06
	Total (A to G)	457.18
G	Interest During Construction (IDC)	27.43
	Grand Total	484.61
H	Maintenance charges for 1 year during warranty period and 6 years after warranty period incl. GST*	45.94
*	Annual Maintenance Charges is not part of the Project cost. However, the same shall be part of bidding documents and to be borne out of O&M expenditure	
I	IDC @6% considered for cost estimate purpose only	

Final SoP/ Guidelines for diversion of RPC approved Spare Transformers and Reactors to the constituents / state transmission utilities

A. Background:

1. In line with the recommendations of committee formed under the direction of CERC in Petition No. 38/TT/2017, requirement of regional spare transformers and reactors is being assessed by POWERGRID and agreed in RPCs based on the population of existing transformers and reactors in POWERGRID substations.
2. POWERGRID procures & maintains the RPC approved spare transformers and reactors as Regional Spares to meet any contingency in its existing Substations to ensure the reliability of the grid and to minimise downtime.
3. These spares are approved primarily for use of POWERGRID in its ISTS Substations. However, in some of the cases, requests are being received by POWERGRID from constituents/ state utility to divert Regional spare transformer(s)/ reactor(s) on temporary basis for their use considering certain exigencies, to maintain continuity of power supply and also considering the grid stability & reliability. Further, in past, in few of the cases regional spare transformers/ reactors have been diverted to constituents/ state utilities after necessary approval of concerned RPC.

B. General Condition:

4. As Regional spares are approved primarily for use of POWERGRID in its ISTS Substations, its diversion to regional state transmission utility may be considered under exceptional circumstances considering the gravity of requirement to the constituent and its beneficiaries on expeditious replenishment basis. Further, Inter Regional diversion of equipment to the constituent shall not be considered.

C. Utilities eligible for diversion: Following utilities (hereinafter referred as Borrower) shall be eligible for diversion of Regional spares as per the conditions specified;

- i) **State Transmission Utility:** Diversions can be considered in case of failure of existing equipment in use of respective RPC constituents and diversion required in the interest of Grid security and reliability. It is clarified that under normal circumstances, a regional spare shall not be diverted for commissioning of new assets.
- ii) **Other Utilities:** For utilities other than State Transmission Utilities, under normal circumstances, such diversions are not envisaged. However, if agreed by RPC forum, such diversions may be allowed only under the exceptional circumstances.

D. Modalities for diversion of Regional spare transformer(s)/ reactor(s) to State Transmission Utility:

5. In case of requirement of Regional spare transformer/ reactor by the Borrower i.e. State Transmission Utility, the requirement shall be put up for consent of the respective RPC forum.
6. In this regard, the concerned Borrower shall submit the following to the RPC for consideration:
 - i) Contingency situations describing the requirement of spare equipment from POWERGRID.
 - ii) Action plan along with timeline for return/ replenishment of the spare equipment to POWERGRID.
7. Decision of diversion along with associated terms and conditions for diversion will be based on the agreement reached in RPC Forum after considering the merit of the request. It is clarified that regional spare transformer/ reactor can be diverted only in case of restoration of failed equipment and generally not for commissioning of new equipment.
8. Upon approval in the RPC, the Spare transformer/ reactor shall be diverted to the Borrower only on usage/replenishment basis and the same shall not be sold to the Borrower under any circumstances.

E. Signing of agreement:

Upon approval in the RPC Forum & before diversion of Regional spare transformer/ reactor, an agreement shall be signed between POWERGRID and the Borrower. The agreement shall cover the terms and conditions for the diversion of equipment in line with this SOP and as discussed below broadly.

a) Time period:

The Borrower shall return the Spare transformer/ reactor within the timeframe agreed by the RPC which in all cases shall not exceed a maximum of 24 months from the date of diversion. The spare transformer/ reactor is to be lifted within 3 months of signing of agreement. Failing which the consent for diversion as agreed in the RPC shall be deemed to be withdrawn.

POWERGRID shall monitor the list of such diverted equipment and coordinate to ensure that the replenishment by the borrower is done as per agreed timeframe and keep the RPC forum-informed.

b) Cost Implications:

The equipment shall be diverted on zero cost basis/ cost neutral basis to POWERGRID. On account of the diversion, POWERGRID shall remain revenue

neutral i.e. there shall be no change in CERC approved tariff or its sharing due to diversion of the concerned regional spare transformer/ reactor. The sharing of cost of the asset shall be as per Sharing Regulations. Tariff of the asset shall be borne by the requestor for the period of usage and charges of the asset shall be recovered bilaterally and adjusted back to pool.” Tariff of the asset would be put up to borrower and RPC by POWERGRID in advance.

c) Responsibility of Borrower:

- i) The Borrower shall be responsible for dismantling, to & fro transportation, transit insurance, statutory expenses, erection, testing & commissioning charges (including at POWERGRID station after return) etc., any other incidental expenditure associated with the diversion of equipment or any loss to POWERGRID on account of diversion and all such charges shall be borne by the Borrower.
- ii) Borrower shall verify the condition of equipment at POWERGRID substation before taking the equipment on loan basis. After verification, the equipment shall be handed over to the Borrower.
- iii) The Borrower shall be responsible for transportation/ erection/ commissioning/ operation & maintenance.
- iv) The Borrower shall be responsible to maintain the equipment in healthy condition as per the standard maintenance practices.
- v) The Borrower shall be responsible to ensure that the equipment is returned to POWERGRID in healthy condition as per the commitment/ action plan agreed prior to diversion.
- vi) Any damage/failure of the equipment shall be the responsibility of the Borrower till the equipment is taken over by POWERGRID in healthy condition.
- vii) In case of failure/ breakdown of equipment during transportation/ erection/ commissioning/ operation & maintenance or during any other activity, the Borrower shall return the equipment after repair/ refurbishment of the same rating as per the POWERGRID specification. Alternatively, new equipment matching with the POWERGRID specifications and from POWERGRID approved vendors shall be replenished. All cost for repair/ refurbishment/ replacement as applicable shall be borne by the Borrower.
- viii) After returning of equipment, all pre-commissioning tests shall be jointly performed at POWERGRID station to ascertain healthiness. In case of any deviation, POWERGRID shall take up the repair of equipment and cost of the repair shall be borne by the Borrower.

d) Return of equipment:

In case of any exigency or if required in the interest of the Grid, POWERGRID reserves the right to demand the diverted Spare from the Borrower prior to the time period as agreed in the RPC after intimation to RPC. Once consented in RPC Forum, Borrower shall return the diverted spare to POWERGRID on immediate basis.

e) Penalty clause:

In the event of a delay in the return or replenishment of spare equipment beyond the agreed timeframe (which is a maximum of 24 months from the date of diversion), a penalty of 15% of the approved tariff for the diverted equipment will be imposed on the Borrower for the duration of the deployment. However, this penalty will not be applied if an extended return or replenishment period is approved by the Regional Power Committee (RPC), subject to maximum extension period of 12 months.

.....

FY 2023-24 (in Thousand Rs.)		FY 2024-25(in Thousand Rs.)		FY 2025-26(in Thousand Rs.)		Remarks
Members	Amount Due	Members	Amount Due	Members	Amount Due	
TPTL	752	APGCL	535	AEGCL	512	
TPGCL	752	TPTL	535	APGCL	512	
MSPCL	752	TPGCL	535	TPTL	512	
		MSPCL	535	TPGCL	512	
		MSPDCL	535	MSPCL	512	
				MSPDCL	512	
				NER-II TL(Indigrid)	1000	
				DoP, AP	-0.23	Additional Payment by DoP AP
				Mizorm	-100	Board Fund Payment done by Mizoram in Establishment fund
Total	2256	Total	2675	Total	3971.77	
Total Amount Yet to be received:					8902.77	



G A P P & ASSOCIATES
Chartered Accountants

Head Office Address :

1st Floor, Above M/S Jain Electricals,
Fire Brigade, Shillong – 793003.

Phone : 7005150251 / 97744-86431

☎ : 0364 - 3560399

E-mail: cagauravjain.shg@gmail.com

AUDITORS' REPORT

To

North Eastern Regional Power Committee (NERPC)
NERPC Complex, Dong Parmaw,
Lapalang, Shillong-793006
Meghalaya

We have audited the accompanying Balance Sheet of **North Eastern Regional Power Committee (NERPC) Board Fund: NERPC Complex :: Dong Parmaw Lapalang :: Shillong-793006 :: Meghalaya** as on **30th June, 2025** and the Income and Expenditure Account and Receipts and Payments Account for the period from 01.04.2025 to 30.06.2025. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with Standards on Auditing issued by Institute of Chartered Accountants of India. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We report as follows:

- (a) We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
- (b) The Balance Sheet referred to in this report is in agreement with the books of accounts subject to the following observations:
 - (i) The organisation did not uniformly comply with the statutory requirements of TDS under the Income Tax Act, 1961 as they failed to deduct tax from vendor payments which were liable for TDS deduction which is neither a statutory mandate nor any Exemption Certificate u/s 197 was forthcoming.



BRANCH OFFICES : GUWAHATI | SILIGURI | ITANAGAR



G A P P & ASSOCIATES
Chartered Accountants

Head Office Address :

1st Floor, Above M/S Jain Electricals,
Fire Brigade, Shillong – 793003.
Phone : 7005150251 / 97744-86431
☎ : 0364 - 3560399
E-mail: cagauravjain.shg@gmail.com

(c) In our opinion, and to the best of our information and according to the explanations given to us, the said accounts, give a true and fair view in conformity with the accounting principles generally accepted in India.

- (i) In the case of the Balance Sheet of the state of affairs of the organisation as on **30th June, 2025**.
- (ii) In the case of the Income and Expenditure Account of the Excess of Income over Expenditure for the period from 01.04.2025 to 30.06.2025.
- (iii) In the case of the Receipts and Payments Account of the receipts and payments for the period from 01.04.2025 to 30.06.2025.

UDIN : 25301907BMHXAB5302

**For GAPP & Associates
Chartered Accountants**

FRN: 327572E

**Dated, Shillong
The 18th November, 2025**



(CA. GAURAV JAIN)
Partner

Membership No. 301907

NERPC BOARD FUND
NERPC COMPLEX :: DONG PARMAW :: LAPALANG :: SHILLONG - 793006
BALANCE SHEET AS AT 30th June, 2025

LIABILITIES	AMOUNT	ASSETS	AMOUNT
CAPITAL ACCOUNT		CURRENT ASSETS	
Opening Balance	1,27,31,802	Cash in Hand	
Add : Surplus	16,48,427	Cash at Bank with Axis Bank	1,43,80,229
Closing Balance	1,43,80,229	(A/c No : 915010025976605)	
TOTAL RUPEES	1,43,80,229	TOTAL RUPEES	1,43,80,229

In terms of our report of even date attached.

UDIN: 25301907BMHXAB5302
FOR GAPP & ASSOCIATES
Chartered Accountants

FRN: 327572E

Date: 18.11.2025

Place: Shillong



Gaurav Jain
GAURAV KUMAR JAIN
(Partner)

Membership No. 301907

NERPC BOARD FUND
NERPC COMPLEX :: DONG PARMAW :: LAPALANG :: SHILLONG - 793006
INCOME & EXPENDITURE ACCOUNT FOR THE PERIOD FROM 01.04.2025 to 30.06.2025

EXPENDITURE	AMOUNT	INCOME	AMOUNT
Expenses:		Receipts:	
Security Expenses	1,71,427	Contribution from Members	26,00,000
Telephone & Internet Expenses	8,260		
Office Expenses	4,22,227		
Refreshment Expenses	3,10,960		
Printing & Stationery	28,839		
Imprest Expenses:			
Fooding Expenses	2,390		
Printing & Stationery	4,050		
Miscellaneous Expenses	3,420		
Surplus	16,48,427		
TOTAL	26,00,000	TOTAL	26,00,000

In terms of our report of even date attached.

Date: 18.11.2025
Place: Shillong

UDIN: 25301907BMHXAB5302
FOR GAPP & ASSOCIATES
Chartered Accountants



FRN: 327572E
Gaurav Jain
GAURAV KUMAR JAIN
(Partner)

Membership No. 301907

NERPC BOARD FUND
NERPC COMPLEX :: DONG PARMAW :: LAPALANG :: SHILLONG-793006
RECEIPTS & PAYMENTS ACCOUNT FOR THE PERIOD FROM 01.04.2025 to 30.06.2025

RECEIPTS	AMOUNT	PAYMENTS	AMOUNT
Opening Balance:		Expenses:	
Cash at Bank with Axis Bank (A/c No : 915010025976605)	1,27,31,802	Security Expenses	1,71,427
		Telephone & Internet Expenses	8,260
		Office Expenses	4,22,227
Receipts:		Refreshment Expenses	3,10,960
Contribution from Members	26,00,000	Printing & Stationery	28,839
		Imprest Expenses:	
		Fooding Expenses	2,390
		Printing & Stationery	4,050
		Miscellaneous Expenses	3,420
		Closing Balance:	
		Cash at Bank with Axis Bank (A/c No : 915010025976605)	1,43,80,229
TOTAL RUPEES	1,53,31,802	TOTAL RUPEES	1,53,31,802

In terms of our report on even date attached.

UDIN: 25301907BMHXAB5302

FOR GAPP & ASSOCIATES

Chartered Accountants



FRN: 327572E

Date: 18.11.2025

Place: Shillong

GAURAV KUMAR JAIN

(Partner)

Membership No. 301907



AUDITORS' REPORT

To

North Eastern Regional Power Committee (NERPC)
NERPC Complex, Dong Parmaw,
Lapalang, Shillong-793006
Meghalaya

We have audited the accompanying Balance Sheet of **North Eastern Regional Power Committee (NERPC) Board Fund: NERPC Complex :: Dong Parmaw Lapalang :: Shillong - 793006 :: Meghalaya** as on **30th September, 2025** and the Income and Expenditure Account and Receipts and Payments Account for the period from 01.07.2025 to 30.09.2025. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with Standards on Auditing issued by Institute of Chartered Accountants of India. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We report as follows:

- (a) We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
- (b) The Balance Sheet referred to in this report is in agreement with the books of accounts subject to the following observations:
 - (i) Section 51 of the CGST Act 2017 provides for deduction of tax by the Government Agencies (Deductor) or any other person to be notified in this regard, from the payment made or credited to the supplier (Deductee) of taxable goods or services or both, where the total value of such supply under a contract, exceeds Rs.2,50,000/- (Rupees Two Lakh and Fifty Thousand). However, the organization has failed to deduct GST(TDS) on vendor payments exceeding Rs.2,50,000/-. The failure on the part of the organization to deduct TDS under



BRANCH OFFICES : **GUWAHATI** | **SILIGURI** | **ITANAGAR**



G A P P & ASSOCIATES
Chartered Accountants

Head Office Address :

1st Floor, Above M/S Jain Electricals,
Fire Brigade, Shillong – 793003.
Phone : 7005150251 / 97744-86431
☎ : 0364 - 3560399

E-mail: cagauravjain.shg@gmail.com

section 51 of the CGST Act, 2017 will attract penal action under section 51(4), 51(6) and 122(1) of the CGST Act, 2017.

(ii) The organisation did not uniformly comply with the statutory requirements of TDS under the Income Tax Act, 1961 as they failed to deduct tax from vendor payments which were liable for TDS deduction which is neither a statutory mandate nor any Exemption Certificate u/s 197 was forthcoming.

(c) In our opinion, and to the best of our information and according to the explanations given to us, the said accounts, give a true and fair view in conformity with the accounting principles generally accepted in India.

- (i) In the case of the Balance Sheet of the state of affairs of the organisation as on 30th September, 2025.
- (ii) In the case of the Income and Expenditure Account of the Excess of Expenditure over Income for the period from 01.07.2025 to 30.09.2025.
- (iii) In the case of the Receipts and Payments Account of the receipts and payments for the period from 01.07.2025 to 30.09.2025.

UDIN : 25301907BMHXAC2509

For GAPP & Associates
Chartered Accountants

FRN: 327572E

Dated, Shillong
The 18th November, 2025



(CA. GAURAV JAIN)

Partner

Membership No. 301907

NERPC BOARD FUND
NERPC COMPLEX :: DONG PARMAW :: LAPALANG :: SHILLONG - 793006
BALANCE SHEET AS AT 30th September, 2025

LIABILITIES	AMOUNT	ASSETS	AMOUNT	AMOUNT
CAPITAL ACCOUNT		FIXED ASSETS		
Opening Balance	1,43,80,229	Motor Vehicle		
Less : Deficit	18,26,733	Per last account	-	
Closing Balance	1,25,53,496	(Add) Additions	33,13,727.00	33,13,727.00
		CURRENT ASSETS		
		Cash in Hand		-
		Cash at Bank with Axis Bank (A/c No : 915010025976605)		92,39,769
TOTAL RUPEES	1,25,53,496	TOTAL RUPEES		1,25,53,496

In terms of our report of even date attached.

UDIN: 25301907BMHXAC2509
FOR GAPP & ASSOCIATES
Chartered Accountants

FRN: 327572E



GAURAV KUMAR JAIN
 (Partner)

Membership No. 301907

Date: 18.11.2025

Place: Shillong

NERPC BOARD FUND
NERPC COMPLEX :: DONG PARMAW :: LAPALANG :: SHILLONG - 793006
INCOME & EXPENDITURE ACCOUNT FOR THE PERIOD FROM 01.07.2025 to 30.09.2025

EXPENDITURE	AMOUNT	INCOME	AMOUNT
Expenses:		Receipts:	
Security Expenses	2,57,394	Contribution from Members	21,00,000
Telephone & Internet Expenses	1,35,897	Deficit	18,26,733
Office Expenses	19,93,215		
Refreshment Expenses	4,40,683		
Printing & Stationery	38,080		
Rent Expenses	4,87,000		
Travelling Expenses	5,56,800		
Imprest Expenses:			
Fooding Expenses	8,964		
Printing & Stationery	6,700		
Miscellaneous Expenses	2,000		
TOTAL	39,26,733	TOTAL	39,26,733

In terms of our report of even date attached.

UDIN: 25301907BMHXAC2509
FOR GAPP & ASSOCIATES
Chartered Accountants

Date: 18.11.2025
Place: Shillong



FRN: 327572E
Gaurav Jain
GAURAV KUMAR JAIN
(Partner)

Membership No. 301907

NERPC BOARD FUND

NERPC COMPLEX :: DONG PARMAW :: LAPALANG :: SHILLONG-793006

RECEIPTS & PAYMENTS ACCOUNT FOR THE PERIOD FROM 01.07.2025 to 30.09.2025

RECEIPT	AMOUNT	PAYMENTS	AMOUNT
Opening Balance:		Expenses:	
Cash at Bank with Axis Bank (A/c No : 915010025976605)	1,43,80,229	Security Expenses	2,57,394
		Telephone & Internet Expenses	1,35,897
		Office Expenses	53,06,942
Receipts:		Refreshment Expenses	4,40,683
Contribution from Members	21,00,000	Printing & Stationery	38,080
		Rent Expenses	4,87,000
		Travelling Expenses	5,56,800
		Imprest Expenses:	
		Fooding Expenses	8,964
		Printing & Stationery	6,700
		Miscellaneous Expenses	2,000
		Closing Balance:	
		Cash at Bank with Axis Bank (A/c No : 915010025976605)	92,39,769
TOTAL RUPEES	1,64,80,229	TOTAL RUPEES	1,64,80,229

In terms of our report on even date attached.

UDIN: 25301907BMHXAC2509

FOR GAPP & ASSOCIATES

Chartered Accountants

FRN: 327572E

Date: 18.11.2025

Place: Shillong



GAURAV KUMAR JAIN

(Partner)

Membership No. 301907



GAPP & ASSOCIATES
Chartered Accountants

Head Office Address :
1st Floor, Above M/S Jain Electricals,
Fire Brigade, Shillong – 793003.
Phone : 7005150251 / 97744-86431
☎ : 0364 - 3560399
E-mail: cagauravjain.shg@gmail.com

AUDITORS' REPORT

To
North Eastern Regional Power Committee (NERPC)
NERPC Complex, Dong Parmaw,
Lapalang, Shillong-793006
Meghalaya

We have audited the accompanying Balance Sheet of North Eastern Regional Power Committee (NERPC) Establishment Fund: NERPC Complex :: Dong Parmaw Lapalang :: Shillong-793006 :: Meghalaya as on 30th June, 2025 and the Income and Expenditure Account and Receipts and Payments Account for the period from 01.04.2025 to 30.06.2025. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with Standards on Auditing issued by Institute of Chartered Accountants of India. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We report as follows:

- (a) We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
- (b) The Balance Sheet referred to in this report is in agreement with the books of accounts subject to the following observations:
 - (i) Section 51 of the CGST Act 2017 provides for deduction of tax by the Government Agencies (Deductor) or any other person to be notified in this regard, from the payment made or credited to the supplier (Deductee) of taxable goods or services or both, where the total value of such supply under a contract, exceeds Rs.2,50,000/- (Rupees Two Lakh and Fifty Thousand). However, the organization has failed to deduct GST(TDS) on vendor payments exceeding Rs.2,50,000/-. The failure on the part of the organization to deduct TDS under



BRANCH OFFICES : GUWAHATI | SILIGURI | ITANAGAR



GAPP & ASSOCIATES
Chartered Accountants

Head Office Address :

1st Floor, Above M/S Jain Electricals,
Fire Brigade, Shillong – 793003.

Phone : 7005150251 / 97744-86431

☎ : 0364 - 3560399

E-mail: cagauravjain.shg@gmail.com

section 51 of the CGST Act, 2017 will attract penal action under section 51(4), 51(6) and 122(1) of the CGST Act, 2017.

(ii) The organisation did not uniformly comply with the statutory requirements of TDS under the Income Tax Act, 1961 as they failed to deduct tax from vendor payments which were liable for TDS deduction which is neither a statutory mandate nor any Exemption Certificate u/s 197 was forthcoming.

(c) In our opinion, and to the best of our information and according to the explanations given to us, the said accounts, give a true and fair view in conformity with the accounting principles generally accepted in India.

- (i) In the case of the Balance Sheet of the state of affairs of the organisation as on 30th June, 2025.
- (ii) In the case of the Income and Expenditure Account of the Excess of Income over Expenditure for the period from 01.04.2025 to 30.06.2025.
- (iii) In the case of the Receipts and Payments Account of the receipts and payments for the period from 01.04.2025 to 30.06.2025.

Dated, Shillong
The 01st November, 2025

UDIN : 25301907BMHWYU6351

For GAPP & Associates

Chartered Accountants

FRN: 327572E



(CA. GAURAV JAIN)

Partner

Membership No. 301907

NERPC SECRETARIAT ESTABLISHMENT FUND
NERPC COMPLEX :: DONG PARMAW :: LAPALANG :: SHILLONG-793006
BALANCE SHEET AS ON 30TH JUNE 2025

EXPENDITURE	AMOUNT (Rs.)	INCOME	AMOUNT (Rs.)
<u>CAPITAL</u>		<u>CURRENT ASSETS</u>	
Opening Balance	1,67,95,805	Cash at Bank with SBI A/C No:00000042203027645	2,34,55,241
Add: Excess of Income over Expenditure	66,59,436		
Closing Balance	2,34,55,241		
TOTAL RUPEES	2,34,55,241	TOTAL RUPEES	2,34,55,241

In terms of our report on even date attached.

UDIN: 25301907BMHWYU6351
FOR GAPP & ASSOCIATES
Chartered Accountants
FRN: 327572E

Date: 01.11.2025
Place: Shillong



Gaurav Kumar Jain
GAURAV KUMAR JAIN
(Partner)
Membership No. 301907

NERPC SECRETARIAT ESTABLISHMENT FUND
NERPC COMPLEX :: DONG PARMAW :: LAPALANG :: SHILLONG-793006
RECEIPT & PAYMENT ACCOUNT FOR THE PERIOD FROM 1ST APRIL, 2025 TO 30TH JUNE 2025

RECEIPT	AMOUNT (Rs.)	PAYMENT	AMOUNT (Rs.)
Opening Balance:		Expenses:	
Cash in Hand	-	Office Expenses	29,18,206
Cash at Bank with SBI A/C No:00000042203027645	1,67,95,805	Travelling and conveyances	10,36,031
		Fuel and Lubricants	1,09,126
		Printing and Publication	1,917
Yearly Contribution from Members	1,08,22,176	Medical Expenses	97,460
		Closing Balance:	
		Cash in Hand	-
		Cash at Bank with SBI A/C No:00000042203027645	2,34,55,241
TOTAL RUPEES	2,76,17,981	TOTAL RUPEES	2,76,17,981

In terms of our report on even date attached.

Date: 01.11.2025

Place: Shillong

UDIN: 25301907BMHWYU6351
FOR GAPP & ASSOCIATES
Chartered Accountants



FRN: 327572E

Gaurav Jain
GAURAV KUMAR JAIN
(Partner)

Membership No. 301907

NERPC SECRETARIAT ESTABLISHMENT FUND
NERPC COMPLEX :: DONG PARMAW :: LAPALANG :: SHILLONG-793006
INCOME & EXPENDITURE FOR THE PERIOD FROM 1ST APRIL, 2025 TO 30TH JUNE 2025

EXPENDITURE	AMOUNT (Rs.)	INCOME	AMOUNT (Rs.)
Expenses:		Yearly Contribution from Members	1,08,22,176
Office Expenses	29,18,206		
Travelling and conveyances	10,36,031		
Fuel and Lubricants	1,09,126		
Printing and Publication	1,917		
Medical Expenses	97,460		
Surplus-Excess of Income over Expenditure	66,59,436		
TOTAL RUPEES	1,08,22,176	TOTAL RUPEES	1,08,22,176

In terms of our report on even date attached.

UDIN: 25301907BMHWYU6351

FOR GAPP & ASSOCIATES

Chartered Accountants

FRN: 327572E

Date: 01.11.2025

Place: Shillong



GAURAV KUMAR JAIN

(Partner)

Membership No. 301907



AUDITORS' REPORT

To
North Eastern Regional Power Committee (NERPC)
NERPC Complex, Dong Parmaw,
Lapalang, Shillong-793006
Meghalaya

We have audited the accompanying Balance Sheet of North Eastern Regional Power Committee (NERPC) Establishment Fund: NERPC Complex :: Dong Parmaw Lapalang :: Shillong - 793006 :: Meghalaya as on 30th September, 2025 and the Income and Expenditure Account and Receipts and Payments Account for the period from 01.07.2025 to 30.09.2025. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with Standards on Auditing issued by Institute of Chartered Accountants of India. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We report as follows:

- (a) We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
- (b) The Balance Sheet referred to in this report is in agreement with the books of accounts subject to the following observations:
 - (i) Section 51 of the CGST Act 2017 provides for deduction of tax by the Government Agencies (Deductor) or any other person to be notified in this regard, from the payment made or credited to the supplier (Deductee) of taxable goods or services or both, where the total value of such supply under a contract, exceeds Rs.2,50,000/- (Rupees Two Lakh and Fifty Thousand). However, the organization has failed to deduct GST(TDS) on vendor payments exceeding Rs.2,50,000/-. The failure on the part of the organization to deduct TDS under





GAPP & ASSOCIATES
Chartered Accountants

Head Office Address :
1st Floor, Above M/S Jain Electricals,
Fire Brigade, Shillong – 793003.
Phone : 7005150251 / 97744-86431
☎ : 0364 - 3560399
E-mail: cagauravjain.shg@gmail.com

section 51 of the CGST Act, 2017 will attract penal action under section 51(4), 51(6) and 122(1) of the CGST Act, 2017.

(ii) The organisation did not uniformly comply with the statutory requirements of TDS under the Income Tax Act, 1961 as they failed to deduct tax from vendor payments which were liable for TDS deduction which is neither a statutory mandate nor any Exemption Certificate u/s 197 was forthcoming.

(c) In our opinion, and to the best of our information and according to the explanations given to us, the said accounts, give a true and fair view in conformity with the accounting principles generally accepted in India.

- (i) In the case of the Balance Sheet of the state of affairs of the organisation as on 30th September, 2025.
- (ii) In the case of the Income and Expenditure Account of the Excess of Expenditure over Income for the period from 01.07.2025 to 30.09.2025.
- (iii) In the case of the Receipts and Payments Account of the receipts and payments for the period from 01.07.2025 to 30.09.2025.

UDIN : 25301907BMHWYV7735

For GAPP & Associates
Chartered Accountants

FRN: 327572E

Dated, Shillong
The 01st November, 2025



(CA. GAURAV JAIN)

Partner

Membership No. 301907

NERPC SECRETARIAT ESTABLISHMENT FUND
NERPC COMPLEX :: DONG PARMAW :: LAPALANG :: SHILLONG-793006
BALANCE SHEET AS ON 30TH SEPTEMBER 2025

EXPENDITURE	AMOUNT (Rs.)	INCOME	AMOUNT (Rs.)
<u>CAPITAL</u>		<u>CURRENT ASSETS</u>	
Opening Balance	2,34,55,241	Cash at Bank with SBI A/C No:00000042203027645	2,26,82,028
Less: Excess of Expenditure over Income	7,73,213		
Closing Balance	2,26,82,028		
TOTAL RUPEES	2,26,82,028	TOTAL RUPEES	2,26,82,028

In terms of our report on even date attached.

UDIN: 25301907BMHWYV7735

FOR GAPP & ASSOCIATES

Chartered Accountants

FRN: 327572E



GAURAV KUMAR JAIN

(Partner)

Membership No. 301907

Date: 01.11.2025

Place: Shillong

NERPC SECRETARIAT ESTABLISHMENT FUND

NERPC COMPLEX :: DONG PARMAW :: LAPALANG :: SHILLONG-793006

RECEIPT & PAYMENT ACCOUNT FOR THE PERIOD FROM 1ST JULY, 2025 TO 30TH SEPTEMBER 2025

RECEIPT	AMOUNT (Rs.)	PAYMENT	AMOUNT (Rs.)
Opening Balance:		Expenses:	
Cash in Hand	-	Office Expenses	70,52,602
Cash at Bank with SBI A/C No:00000042203027645	2,34,55,241	Travelling and conveyances	11,00,681
		Minor work	9,326
		Fuel and Lubricants	93,326
Yearly Contribution from Members	77,12,838	Printing and Publication	50,400
		Advertisement and Publicity	6,674
		Professional Services	1,47,891
		Medical Expenses	25,151
		Closing Balance	
		Cash in Hand	-
		Cash at Bank with SBI A/C No:00000042203027645	2,26,82,028
TOTAL RUPEES	3,11,68,079	TOTAL RUPEES	3,11,68,079

In terms of our report on even date attached.

UDIN: 25301907BMHWYV7735

FOR GAPP & ASSOCIATES

Chartered Accountants

FRN: 327572E

Date: 01.11.2025

Place: Shillong



GAURAV KUMAR JAIN
(Partner)

Membership No. 301907

NERPC SECRETARIAT ESTABLISHMENT FUND
NERPC COMPLEX :: DONG PARMAW :: LAPALANG :: SHILLONG-793006
INCOME & EXPENDITURE FOR THE PERIOD FROM 1ST JULY, 2025 TO 30TH SEPTEMBER 2025

EXPENDITURE	AMOUNT (Rs.)	INCOME	AMOUNT (Rs.)
Expenses:		Yearly Contribution from Members	77,12,838
Office Expenses	70,52,602	Deficit-Excess of Expenditure over Income	7,73,213
Travelling and conveyances	11,00,681		
Minor work	9,326		
Fuel and Lubricants	93,326		
Printing and Publication	50,400		
Advertisement and Publicity	6,674		
Professional Services	1,47,891		
Medical Expenses	25,151		
TOTAL RUPEES	84,86,051	TOTAL RUPEES	84,86,051

In terms of our report on even date attached.

UDIN: 25301907BMHWYV7735

FOR GAPP & ASSOCIATES

Chartered Accountants

FRN: 327572E

Date: 01.11.2025

Place: Shillong


GAURAV KUMAR JAIN
(Partner)

Membership No. 301907

Annexure 5.2

As deliberated in Clause B.28 of 189th OCC Forum of NERPC dated 19.04.2022, necessary details has to be furnished to NERLDC prior to FTC clearance of state owned elements. However, it is observed that the following elements were charged without furnishing the required details to NERLDC, thus not complying with the directions of the OCC Forum:

I. List of intra-state elements charged as per the CEA Monthly Progress Report on Central Funded Schemes (July 2025) under NERSIP							Commissioning Status	
Sl. No.	Type of element	Name of Element	MVA	Ckt km	Month	Year	FTC Application submission Status by Tripura	
1	Line	132 kV Rabindra Nagar - Belonia D/C		123.50	January	2025	The FTC application was submitted on 16-12-2025. <i>Data validation, SAT Report, VOIP etails, Protection setting approval, Manually triggered DR/EL and Instrument transformer accuracy ≥ meter accuracy are yet to be pending</i>	
2	Line	132 kV Rabindra Nagar - Rokhia D/C		44.32	September	2022		
3	ICT	2 x 50 MVA ICT I & II at 132/33 kV at Rabindra Nagar sub-station	120		January	2022		
4	ICT	2 x 50 MVA ICT I & II at 132/33 kV at Manu sub-station	120		July	2025	The FTC application was submitted on 16-12-2025. <i>Protection setting approval from NERPC, Relay setting file (.csv & .pdf), Manually triggered DR file, Fulfillment of OTDR observations and Ambasa CT 0.5s, Requested to provide meter spec. If meter 0.2/0.2s, replace CT or shift meter to Manu (CT 0.2s) are yet to be pending</i>	
5	Line	132 kV Manu - Ambassa line		26.36	September	2024		
6	Line	132 kV Udaipur - Bagafa D/C line		63.81	March	2022	Partially applied on 31-01-2026. <i>Requested to submit the complete documents after compiling the substation-wise associated elements, via email dated 03-02-2026</i>	
7	ICT	2 x 50 MVA ICT I & II at 132/33 kV Belonia sub-station	120		June	2025	The FTC application was submitted on 18-12-2025. <i>Data validation, SAT report, VoIP installation details, Protection setting approval, Relay setting file and manually triggered DR/EL file are yet to be pending.</i>	
8	Line	132 kV Surjyamaninagar-Gokulnagar Line (132 kV Surjyamaninagar-Rokhia L1LO at Gokulnagar)		7.00	October	2025	Not yet applied	
9	Line	132 kV Bagafa - Belonia D/C line		25.82	January	2023		
10	Line	132kV Interconnecting portion of 132kV Sabroom - Satchand at Satchand end		2.05	December	2024		
11	Line	132 kV Bagafa - Satchand line S/c on D/c		29.64	October	2024		
12	Line	132 kV Belonia - Sabroom D/C line		77.63	July	2024		
13	Line	132kV Interconnecting portion of 132kV Sabroom - Satchand at Sabroom end		1.31	January	2025		
14	Line	132 kV Kailasahar - Dharmanagar D/C		43.55	October	2024		
15	Line	L1LO of Agartala (79 Tilla) - Dhalabil (Khowai) 132 kV S/C line at Mohanpur		2.44	August	2021		
16	Line	132 kV Udaipur- Amarpur D/C		30.59	September	2024		
17	Line	132kV Interconnection portion from Manu (Old) S/s to Manu (New) S/s for charging of 132kV Manu-Chawmanu TL		3.20	September	2024		
18	ICT	2 x 31.5 MVA ICT I & II at 132/33 kV at Satchand sub-station	83		March	2025		
19	ICT	2 x 31.5 MVA ICT I & II at 132/33 kV Sabroom sub-station	83		February	2025		
20	ICT	2 x 50 MVA ICT I & II at 132/33 kV Bagafa sub-station	120		November	2023		
21	ICT	2 x 31.5 MVA ICT I & II at 132/33 kV Amarpur sub-station	83		July	2024		
22	ICT	2 x 31.5 MVA ICT I & II at 132/33 kV at Mohonpur (Hezamara) sub-station	83		August	2021		
23	ICT	Replacement of existing 2 x 7.5 MVA, 132/33 kV transformer by 2x50 MVA, 132/33 kV transformer at Kailasahar (#)	120		Partially Charged			
24		Augmentation of Udaipur sub-station	120		January	2021		
25		132/33/11 kV Rokhia (Extn) Substation	0		January	2022		
26		Augmentation of Ambassa sub-station by addition of 1 x 31.5, 132/33 kV transformer, 2 x 10 MVA, 33/11 kV transformer & 2 x 250 KVA 11/0.4 kV transformer including extension of control room	51.5		December	2022		
27		Augmentation of Dhalabil (Khowai) sub-station by addition of 2 x 31.5, 132/33kV transformer, 2 x 10 MVA, 33/11 kV transformer & 2 x 250 KVA 11/0.4 kV transformer including extension of control room	83		January	2025		
28		132/33/11 kV Dharmanagar (Extn.) Substation			February	2025		
29		Augmentation of Jirania sub-station	83		June	2025		

II. List of ISTS Elements charged without FTC Approval from NERLDC								
As per the procedure for Charging/ Energization and Integration of Altered (including modified/replaced/upgraded) Power System Elements, all 132 kV and above transmission elements emanating from ISGS/ISTS has to obtain FTC approval from NERLDC prior to energisation. However, the following elements were charged without obtaining the necessary approval from NERLDC.								
Sl. No.	Type of element	Name of Element	MVA	Ckt km	Month	Year	FTC Application Applied Status	
1	Line	132 kV SM Nagar (ISTS) - SM Nagar (TSECL) line after reconductoring with HTLS			October	2025	The line is charged on 18-10-2025, without NERLDC FTC approval and also the application is yet to be submitted.	

III. FTC Application applied (ISTS Elements) for NERLDC FTC approval

Sl. No.	Type of element	Name of Element	MVA	Ckt km	Month	Year	FTC Application Applied Status
1	Line	132kV PK Bari (ISTS) - Manu line (LILO of 132kV PK Bari (ISTS) - Ambassa line at 132 kV Manu)		10.60	September	2024	FTC Application applied for 132kV PK Bari ISTS - Ambassa (LILO at Manu) on 21-11-2025. <i>Connectivity Agreement, PTCC Clearance, Relay settings approval from RPC, Compliance with RLDC observations on the OTDR report and SEM data of the meter at Manu end are yet to be submitted.</i>
2	Line	132 kV SMNagar ISTS - Budhjunagar line after reconductoring with HTLS		17.925			FTC Application applied on 06-11-2025. <i>Relay settings approval from RPC and SIO clearance are yet to be complied.</i> Note: The reconductoring work partially completed and currently the line is in charged condition. FTC approval to be obtained prior to the charging of line after completion of reconductoring works.
3	Line	132 kV PK Bari – Kumarghat after reconductoring with HTLS		1.580			FTC Application applied on 07-12-2025. <i>Relay settings approval from RPC yet to be submitted</i> Note: The reconductoring work partially completed and currently the line is in charged condition. FTC approval to be obtained prior to the charging of line after completion of reconductoring works.

IV. T-connection of 132 kV PK Bari (ISTS) Ambassa line at Manu SS

As informed by SLDC Tripura the removal of the T-connection at Manu SS was done on 03-12-2025.

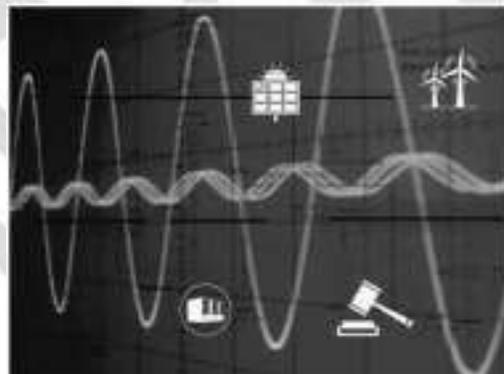
V. List of ISTS Element: FTC approval obtained after completion of works

Sl. No.	Type of element	Name of Element	MVA	Ckt km	Month	Year	FTC Application Applied Status
1	Line	132 kV PK Bari - PK Bari (ISTS) after reconductoring HTLS		10.179	November	2025	As per NERLDC FTC provisional approval, the line has been charged after FTC approval on 28-11-2025.

**Grid Controller of India Ltd.
National Load Despatch Centre (NLDC)**



Draft
GUIDELINES FOR HARMONICS MEASUREMENTS
AT TRANSMISSION LEVEL



Revision-R0

Table of Contents

1. Introduction	3
2. Scope & Applicability	6
3. Guidelines	6
3.1 Measurement Locations	6
3.2 Timelines for installation of Power Quality Meters	7
3.3 Parameters to be measured	7
3.4 Period and duration of measurement	8
3.5 Methodology.....	9
3.6 Notice and necessary parties	9
3.7 Retention of raw data and Submission of Report	9
4. Instrumentation Requirements.....	10
5. Data sharing	10
6. Review/Update of this document.....	10
Annexure	
Power Quality Test Report Format.....	11

GUIDELINES FOR HARMONICS MEASUREMENTS

AT TRANSMISSION LEVEL

1. Introduction

A. Standards for power quality as stipulated in various CEA standards are quoted below:

1. For generating station:

Part II B. of Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2013 & 2019 mandates wind generating stations, generating stations using inverters, wind - solar photo voltaic hybrid systems and energy storage systems to restrict harmonic, direct current and flicker injection as per following clauses:

“B1. Requirements with respect to Harmonics, Direct Current (DC) Injection and Flicker

- 1) Harmonic current injections from a generating station shall not exceed the limits specified in Institute of Electrical and Electronics Engineers (IEEE) Standard 519*.
- 2) The Generating station shall not inject DC current greater than 0.5 % of the full rated output at the interconnection point.
- 3) The generating station shall not introduce flicker beyond the limits specified in IEC 61000*. Provided that the standards for flicker will come into effect from 1st April 2014.”

2. For Bulk load and Discom:

Part IV of Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2013 & 2019 mandates for Bulk consumer and distribution system:

“3) Voltage and Current Harmonics. - (i) The limits of voltage harmonics by the distribution licensee in its electricity system, the limits of injection of current harmonics by bulk consumers, point of harmonic measurement, i.e., point of common coupling, method of harmonic measurement and other related matters, shall be in accordance with the IEEE 519-2014 standards, as amended from time to time;”

3. For Transmission licensees:

3(2) of CEA (Grid Standards) Regulations, 2010 specified that:

“the transmission licensee shall ensure that the voltage wave-form quality is maintained at all points in the Grid by observing the limits given in Table below-

S.No.	System Voltage (kV rms)	Total Harmonic Distortion (%)	Individual Harmonic of any particular Frequency (%)
1	765	1.5	1.0
2	450	2.0	1.5
3	220	2.5	2.0
4	33 to 132	3.0	3.0

Provided that the standard on Harmonic Distortion shall come into force concurrently with clause 3 of Part IV of the Schedule to the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007.

Explanation: For the purpose of this regulation, Total Harmonic Distortion (VTHD) expressed as percentage, shall be calculated as under-

$$V_{THD} = \sqrt{\sum_{n=2}^{\infty} \frac{V_n^2}{V_1^2}} \times 100$$

‘1’ refers to fundamental frequency (50 Hz)

‘n’ refers to the harmonic of nth order (corresponding frequency is 50 x n Hz).”

4. IEEE 519 current harmonics limits:

Further, it is mentioned in IEEE-519-2022 (IEEE Standard for Harmonic Control in Electric Power Systems) standard that:

“The current distortion limits shall apply to a user’s PCC primarily with harmonic producing loads. For installations with primarily inverter-based resources, users are directed to other applicable standards such as IEEE Std 1547-2018 or IEEE Std 2800-2022. For installations where there is a mix of both loads and inverter based resources, the decision tree in Figure 1 shows when IEEE Std 519 limits shall apply at the installation PCC.”

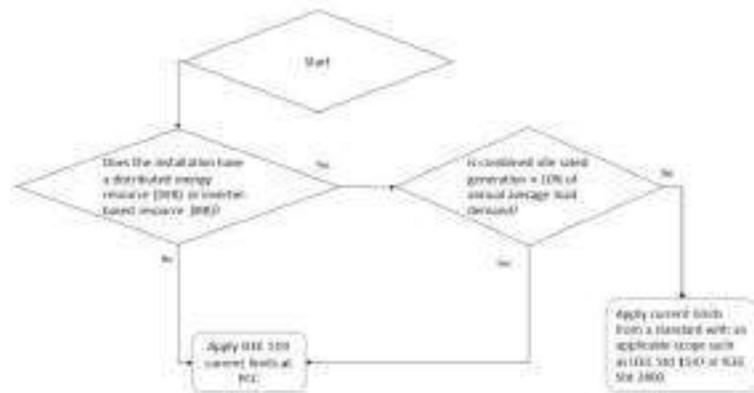


Figure 1 — Decision tree for applying current distortion limits at PCC

For HVDC installation the individual harmonic limits given in IEEE 519 may be increased by a multiplying factor when actions are taken by a user to reduce lower-order harmonics as per the multiplier mentioned in same standard.

B. Mandate for harmonics measurements as stipulated in various CEA standards are quoted below:

1. For generating stations

Part II B. of Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2013 & 2019 mandates wind generating stations, generating stations using inverters, wind - solar photo voltaic hybrid systems and energy storage systems to carry out measurement of Harmonics, Direct Current (DC) Injection and Flicker measurement as below:

“4) Measurement of harmonic content, DC injection and flicker shall be done at least once in a year in presence of the parties concerned and the indicative date for the same shall be mentioned in the connection agreement.

Provided that in addition to annual measurement, if distribution licensee or transmission licensee or the generating company, as the case may be, desires to measure harmonic content or DC-injection or flicker, it shall inform the other party in writing, and the measurement shall be carried out within 5 working days.”

2. For Bulk Load and DISCOM

Part IV of Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2013 & 2019 mandates for Bulk consumer and distribution system to measure harmonic as per following clauses:

“3 (ii) Measuring and metering of harmonics shall be a continuous process with meters complying with provisions of IEC 61000-4-30 Class A.

(iii) The data measured and metered as mentioned in sub-paragraph (ii) with regard to the harmonics, shall be available with distribution licensee and it shall also be shared with the consumer periodically.

(iv) The bulk consumer shall install power quality meter and share the recorded data thereof with the distribution licensee with such periodicity as may be specified by the appropriate Electricity Regulatory Commission: Provided that the existing bulk consumer shall comply with this provision within twelve months from the date of commencement of the Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2018.

(v) In addition to harmonics, periodic measurement of other power quality parameters such as voltage sag, swell, flicker, disruptions shall be done as per relevant International Electrotechnical Commission Standards by the distribution licensee and the reports thereof shall be shared with the consumer.

(vi) The distribution licensee shall install power quality meters in a phased manner within three years from the date of commencement of the Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2018 covering at least 33% of the 33 kV substations each year.”

3. For transmission licensees

Further as per the Minutes of the Meeting taken by the Chairperson, CEA on 01.07.2024, the following directions were issued regarding harmonic measurement and the installation of harmonic filters by Renewable Energy (RE)

generators:

“The measurement of harmonics shall be done at all ISTS substations, and the data may be shared with RE plants connected at these ISTS substations for better accuracy of simulation studies to assess the requirement of harmonic filters. CTUIL shall include the requirement for installation of PQ meters in the bidding documents for all upcoming ISTS substations. Further, for the existing ISTS substations, PQ meters shall be installed within a period of 6 to 8 months, and the ISTS substations currently under erection and commissioning shall also ensure installation of PQ meters at the time of commissioning.”

C. Mandate for mathematical modelling and studies for power quality

6(6) of Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007 mentions that: “For inter-connection studies the requester shall make a request for connection in the planning stage to the Appropriate Transmission Utility. In case a requester is seeking inter-connection to a distribution system such a request will be made to the distribution licensee. The Appropriate Transmission Utility or distribution licensee shall carry out the inter connection study to determine the point of inter-connection, required inter-connection facilities and modifications required on the existing grids, if any, to accommodate the interconnection. The study may also address the transmission system capability, transient stability, voltage stability, losses, voltage regulation, harmonics, voltage flicker, electromagnetic transients, machine dynamics, ferro resonance, metering requirements, protective relaying, sub-station grounding and fault duties, as the case may be. Provided that in order to carry out the said study, the requester shall present the mathematical model of the equipment in accordance with the requirements as stipulated by the Appropriate Transmission Utility or distribution licensee, as the case may be”

With a view to ensuring uniform interpretation of the applicable national regulations and their alignment with relevant international standards, the following detailed guidelines have been prepared for reference. In the event of any inconsistency, the provisions of the CEA Regulations shall prevail.

2. Scope & Applicability

These guidelines apply to all Wind generating stations and generating stations using inverters, wind - solar photo voltaic hybrid systems and energy storage systems, transmission licensees i.e owner of ISTS/InSTS transmission substation (220 kV (132 kV for NER) and above) and Bulk consumer.

3. Guidelines:

3.1. Measurement Locations

A. Transmission substation

Owners of following transmission substations at 132 kV and above shall install P-Q meter on the highest voltage level bus of that substation where following are connected directly:

- 50 MW or more (aggregated capacity) Wind generating stations and generating stations using inverters, wind - solar photo voltaic hybrid systems and energy storage systems
- any HVDC or FACTS device
- Bulk consumer

o Traction load

At these transmission substations continuous measurement of voltage harmonic with respect to bus voltage to be done. with standard specification as mentioned in section 4 and measure voltage harmonics on continuous basis.

B. Inverter interfaced Load or generation stations

Developer of wind generating stations and generating stations using inverters, wind - solar photo voltaic hybrid systems and energy storage systems or bulk load shall install PQ meter with standard specification as mentioned in section 4 and measure both voltage and current harmonics on continuous basis. Owner of such asset shall install the P-Q meter at their own substation on the lines which are connecting the plant to the point of inter connection in the grid.

3.2 Timelines for installations of power quality meters

1. Wind generating stations, generating stations using inverters, wind - solar photo voltaic hybrid systems and energy storage systems to carry out measurement of Harmonics, Direct Current (DC) Injection and Flicker measurement on annual basis as mandated in the Central Electricity Authority (Technical Standards for Connectivity to the Grid).
2. Power quality meter shall be installed (before COD) for continuous monitoring of harmonics in new transmission/Inverter interfaced Load or generation stations commissioned post 01st April 2027.
3. For already commissioned transmission substations, a plan for phase-wise installation of power quality meters for continuous monitoring at selected transmission substations to be finalized in respective RPCs. Installation to be completed by 31st Mar 2030. In the interim period, a schedule for periodic measurement (through accredited agency) to be finalized in RPC.

3.3 Parameters to be measured

The following minimum parameters shall be measured and recorded as per IEEE 519 latest amendment:

Quantity	Total Harmonic Distortion	Individual Harmonic Distortion	Flickers
Voltage	1. Daily 99 th percentile very short time (3 s)	1. Daily 99 th percentile very short time (3 s)	1.Weekly Short-term Flicker (10 min) (Pst) 95 th & 99 th percentile.
	2. Weekly 95 th percentile short time (10 min)	2. Weekly 95 th percentile short time (10 min)	2. Weekly Long-term Flicker (2-hour) (Plt) 95 th and 99 th percentile
Current	1. Daily 99 th percentile very short time (3 s)	1. Daily 99 th percentile very short time (3 s)	1.Weekly Short-term Flicker (10 min) (Pst) 95 th and 99 th

			percentile.
	2. Weekly 99 th percentile short time (10 min)	2. Weekly 99 th percentile short time (10 min)	2. Weekly Long-term Flicker(2-hour) (Plt) 95 th and 99 th percentile
	3. Weekly 95 th percentile short time (10 min)	3. Weekly 95 th percentile short time (10 min)	
DC Component in Current at rated current			

The format for submission of Power Quality Test Report is attached as Annexure. The recommended limits are as per relevant version of standards IEEE 519 -2022, IEC 61000-3-7: 2008-02, IEEE 1543-2022, IEEE 2800-2022, IEC 614000, CEA Technical standards and amendment thereof.

Base quantities for calculation of harmonic distortion will be determined as per IEEE 519 as amended from time to time. For clarity Base value of current of different feeders for calculation of distortion are listed below:

1. For feeders where RE plants are connected- Rated Current of Installed RE plants on the AC side as per installed capacity (as per IEEE 2800 and amendment thereof)-.
2. For HVDC/FACTS connected feeders- Rated Current of the HVDC/FACTS (as per IEEE 519 and amendment thereof)
3. Feeders where Bulk load are Connected-Rated load current of complete installed load (as per IEEE 519 and amendment thereof).
4. Feeders where Traction loads are connected- maximum demand load current under normal load operating conditions as per last one year data.

3.4 Period and Duration of Measurement

Measurement shall be carried out continuously. In case of breakdown of measurement device, the same shall be reported in annual report.

Till the time continuous measurement equipment are installed, Measurement shall be done once in every financial year. Once during peak RE generation season. Measurement shall be done at least for 7 days. Very short and short time harmonic values should be accumulated over periods of one day and one week respectively in line with IEEE Standard 519-2022 and amendment thereof. Other than this, RPC/RLDC/SLDC may advise for additional measurement as and when required.

3.5 Methodology

Transmission substation owner shall engage a third-party testing agency which NABL/IEC accredited and their report shall be submitted. The measurement methodology shall follow latest amendment of IEC 61000-4-7 Class I and IEC 61000-4-30 Class A and Measurement window width, the statistical methodology for measuring harmonic and inter harmonic values in this requirement shall follow latest amendment of IEEE Std 519 in line with CEA regulations. Data aggregation shall utilize the 'Flagging' concept as per latest amendment of IEC 61000-4-30. Harmonic values recorded during time intervals flagged for voltage dips, swells, or interruptions shall be excluded from the statistical analysis (95th/99th percentile calculations) to prevent fault events from skewing steady-state harmonic compliance results (CIGRE TB 596 Reference: Chapter 2, Section 2.2.1)

3.6 Notice & Necessary parties

Only During the interim period till meters are installed, measurement of harmonic content, DC injection and flicker shall be done at least once in a year in the presence of the parties concerned if desired by the parties.

- a) Measurement of harmonic content, DC injection and flicker shall be done at least once in a year in the presence of the parties concerned if desired by the parties.
- b) Provided that in addition to annual measurement, if distribution licensee or transmission licensee or the generating company, as the case may be, desires to measure harmonic content or DC-injection or flicker, it shall inform the other party in writing, and the measurement shall be carried out within 5 working days

3.7. Retention and Submission of Data & Submission of Reports

As per IEEE 2800 latest amendment:

Provision data type	Recording rate	Retention
Power quality—Very short-term harmonics (COMTRADE or PQDIF* format)	3 s	10 Days
Power quality—short-term harmonics (COMTRADE or PQDIF* format)	10 min	90 Days
Power quality—long-term harmonics (COMTRADE or PQDIF* format)	95 weekly percentile (per IEEE Std 519)	1 Year

*PQDIF-Power Quality Data Interchange Format.

Report Format:

- a) The following graphs to be included in the report:
 - Voltage trend (High voltage side equivalent value based on the point of measurement with appropriate scaling of PT ratio)
 - Current trend (High voltage side equivalent value based on the point of measurement with

- appropriate scaling of CT ratio)
 - Power trend (High voltage side equivalent value based on the point of measurement as above)
 - Voltage THD and individual harmonic order (both 95th and 99th percentile) trend in line with IEEE 519 and amendment thereof
 - TDD and individual harmonic order (both 95th and 99th percentile) trend in line with IEEE 519 and amendment thereof
 - DC injection trend
 - Flicker trend
 - Individual harmonic power flow for violating harmonic orders as per 61000-4-7 latest edition.
- b) Raw file .csv and raw meter file used for High voltage side measurements.
 - c) software details to view the raw file.
 - d) Sample calculation of 99th percentile value and 95th percentile value for voltage and current harmonics in excel.
 - e) Scale factor to scale the values to rated HV side voltage and current.
 - f) CT details along with photograph, used for testing
 - g) Sample calculation of TDD value (As per IEEE Std 519-2022 and amendment thereof).
 - h) Voltage, current, power (active and apparent) and power factor summary (min, max and avg) in day wise at point of measurement with base of respective HV side as the case may be, requested to use the scale factor value to convert the measured value to actual HV side equivalent value.
 - i) Analysis of Harmonics distortion during different part of the day, showing current trend and current THD trend

4. Instrumentation Requirements

Instruments used must comply with the specifications of IEC 61000-4-7 and IEC 61000-4-30 (as per latest amendment of these standards at the time of installation or periodic measurement), Class A. For Class A instruments, measurements are required to be made at least up to the 50th order. PQ meters should have auto report generation facility of daily and weekly reports of Harmonics/Flicker and DC currents as per IEEE519/IEC61000(latest amendment), so that it can be quickly submitted to SLDC/RLDC/ RPC/CTUIL/STU/RE developer. All Power Quality monitoring devices must be time-synchronized via GPS to ensure a timestamp accuracy of better than 1 ms, enabling correlation of events between different nodes in the grid.

5. Data sharing

In addition to annual measurement, if distribution licensee or transmission licensee or the generating company or appropriate LDC or RPC, as the case may be, desires power quality report from the entities connected to its substation, the entity shall share the report.

Power quality report may be required by entities for filter design during connectivity stage. Transmission licensees of envisaged point of interconnection substations to share the power quality report on request. If RLDC/SLDC/ RPC/CTUIL, desires power quality report from the transmission licensees, transmission licensees shall share the report.

6. Review/Update of this document

The above document would be reviewed by NPC/CEA periodically and update them in light of new standards/ technologies / on need basis/ based on experience.

Annexure Power Quality Test Report Format

Power quality measurement report to be submitted in the following format.

Test Report Number:		
1.	Name and address of Transmission substation :	
2.	Reference: - Service request form number: Date of receipt of EUT:	
3.	Location of testing :	
4.	Testing Detail: - Date of issue: Date of testing:	
4.	Duration of testing:	
5.	Description of Measurement: - Measurement Point (PCC):	
6.	Environmental conditions of measurements: Temperature: Relative humidity:	
7.	Witnessed by :	
8.	Description of Power Quality Analyzer used for testing:	
	Power Quality Analyzer	Calibration valid up to
	Power Quality & Energy Analyzer Make: XXXXX Model: XXXX Sr. No.- XXXXXX EI No.: - XXXX	DD-MM-YYYY
		Calibration Details
		Parameters
		Voltage Harmonic, Current Harmonic, Flicker, DC Current Injection
9.	Measurement Procedure	

In addition to above, Measurement standard followed, measurement instrument connection details may also be included.

10. Electrical: Power Supplies & Stabilizers

10.1 Measurement

A. For Voltage Circuit PQ Parameter Measurement

1. Daily Total Harmonic Distortion in Voltage circuit (THD) for Very short

time (3second) values 99th percentile:

Day	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remarks
1					
2					
3					
4					
5					
6					
7					

2. Weekly Total Harmonic Distortion in Voltage circuit (THD) for short time (10minute) values 95th percentile:

Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remarks

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99th percentile

Day 1

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99 th										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99th percentile

Day 2

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99 th										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99th percentile

Day 3

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99 th										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99th percentile

Day 4

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99 th										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99th percentile

Day 5

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99 th										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99th percentile

Day 6

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99 th										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99th percentile

Day 7

3. Individual Voltage Harmonic distortion measurement for very short time (3second) values 99 th										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

4. Weekly Individual Voltage Harmonic distortion measurement for short time (10 Minutes) values 95th percentile

4. Individual Voltage Harmonic distortion measurement for short time (10 Minutes) values 95th										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

Flicker Measurement

1. 1.Weekly value of Short term Flicker (Pst) measurement values 95th percentile:

Recommended limit as per Standard IEEE 1453-2022 & IEC 61000-4-15 IEC 61000-3-7 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remarks

2. Long term Flicker (Plt) measurement values 95th percentile:

Recommended limit as per Standard IEEE 1453-2022 & IEC 61000-4-15 IEC 61000-3-7 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remarks

3. Short term Flicker (Pst) measurement values 99th percentile:

Recommended limit as per Standard IEEE 1453-2022 & IEC 61000-4-15 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remarks

4. Long term Flicker (Plt) measurement values 99th percentile:

Recommended limit as per Standard IEEE 1453-2022 & IEC 61000-4-15 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remarks

B. For Current Circuit PQ Parameter Measurement

1. Total Harmonic Distortion in Current circuit (THD)/ Total Demand Distortion in Current circuit (TDD) for Very short time (3second) values 99th percentile:

Day	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remarks
1					
2					
3					
4					
5					
6					
7					

2. Weekly Total Harmonic Distortion in Current circuit (THD)/ Total Demand Distortion in Current circuit (TDD) for short time (10Minute) values 99th percentile:

Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remarks

3. Weekly Total Harmonic Distortion in Current circuit (THD)/ Total Demand Distortion in Current circuit (TDD) for short time (10Minute) values 95th percentile:

Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remarks

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile:

Day 1

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile:

Day 2

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile:

Day 3

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile:

Day 4

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile:

Day 5

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile:

Day 6

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile:

Day 7

4. Individual Current Harmonic distortion measurement for very short time (3second) values 99th percentile										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022(%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

5. Individual Current Harmonic distortion measurement for short time (10minute) values 99th percentile:

5. Individual Current Harmonic distortion measurement for short time (10 minute) values 99th percentile										
Even Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Odd Harmonics	Recommended limit as per Standard IEEE 519-2022 (%)	R Phase (%)	Y Phase (%)	B Phase (%)	Remark
2					3					
4					5					
6					7					
8					9					
10					11					
12					13					
14					15					
16					17					
18					19					
20					21					
22					23					
24					25					
26					27					
28					29					
30					31					
32					33					
34					35					
36					37					
38					39					
40					41					
42					43					
44					45					
46					47					
48					49					
50										

**List of Commissioned Elements to be taken by the State Utilities under
NERPSIP**

A. Meghalaya:

1. 33/11kV Jongksha, 1x Line Bay
2. 220/132kV Mawngap (New) S/S- 2 X 160 MVA
3. 220/132kV New Shillong (New) S/S- 2X160 MVA + 2X 50 MVA
4. 33 kV Mynkre- Byndihati DMS line
5. New 33/11kV Sutnga SS, 2X10 MVA
6. 33 kV Mynkre- Sutnga DMS line
7. 33/11 kV Byndihati (Lumshnong) New SS (1 X 5 MVA)
8. Existing 33/11kV Jongksha-Mawkynrew
9. New 33/11kV Mawkynrew, 2x5 MVA
10. New 33/11kV Mawpat SS, 2x10 MVA
11. LILO of both ckt of 132kV MLHEP - Khlierat at Mynkre
12. 132kV Ampati Extn.
13. 132/33kV Mynkre (New) S/S-2X50 MVA
14. 132/33kV Phulbari (New) SS (2x50 MVA)
15. 132/33kV Mynkre (New) - 33/11kV Rymbai
16. 33/11kV Rymbai SS (1x5MVA)
17. Tikrikilla tapping point to Tikrikilla Extn. S/s (Re-conductoring changed to new line as sanctioned by CEA)
18. 132/33kV Phulbari (New) - Rajballa Bhaitbari
19. 33/11 kV Rajballa Bhaitbari S/S - 1x5 MVA

B. Tripura:

1. 132/33kV Satchand SS
2. 132 kV D/C Belonia-Sabroom TL
3. 132kV Rabindranagar - Belonia TL
4. 132kV Bagafa - Satchand TL
5. 132kV Kailashar Dharmanagar TL
6. 132KV Interconnection Portion of 132KV S/C Sabroom-Satchand TL at Sabroom end
7. 132KV Interconnection Portion of 132KV S/C Sabroom-Satchand TL at Satchand end
8. 33/11kV Ampura s/s (under RGGVY)
9. 33/11kV Kalaisahar - R&M
10. 33/11kV Bishramganj Extn.
11. 33/11kV Silachari bay extn.
12. 33kV P K Bari Extn.
13. 33kV Sekerkote - Gokulnagar line
14. 33 kV Manughat - Srinagar line
15. 33kV Jirania - Khayerpur new line
16. 33kV Satchand - Srinagar line

C. Assam:

1. 132/33kV GMC s/s to GS road GIS UG Cable

2. 132/33kV GMC s/s to Arya college GIS UG Cable
3. 132 KV GMC - Chabipool (Hengrabari) UG cable route
4. 33kV Bamunimaidan S/S to Chandmari S/s UG cable
5. 33/11kV GS Road (New) GIS
6. Narengi S/S to Bamunimaidan S/S UG cable
7. Narengi S/S to Zoo Road S/S UG cable
8. 33kV Narengi Uzan Bazar UG cable route
9. 132/33kV Paltanbazar (New) s/s to Stadium (UG Cable)

D. Mizoram:

1. 132/33kV West Phaileng (New) S/S
2. 132kV West Phaileng-Marpara TL
3. 132/33 kV Marpara Substation
4. 132/33kV Lungsen SS
5. 132kV S/C Lunglei - Lungsemn Interconnection
6. 33kV line from 132/33kV Lungsen (new) - Lungsen line - 5 Kms.

E. Nagaland:

1. Bay Ext. at 220kV Mokokchung (PG) GIS S/S
2. 33/11 kV Mokokchung TB Hospital
3. 33/11 kV Mokokchung PH S/s
4. 132/33kV Zunheboto (New)

F. Manipur:

1. 132/33kV Tamenglong SS