AGENDA

FOR

230th OCC MEETING

Time: 10:30 Hrs.

Date: 19th September, 2025 (Friday)

Venue: NERPC Conference Hall, Shillong

Contents

NORTH EASTERN REGIONAL POWER COMMITTEE

AGENDA FOR 230TH OCC MEETING TO BE HELD ON 19.09.2025 (FRIDAY) AT 10:30 HRS

1. PART-A: CONFIRMATION OF MINUTES

1.1. Confirmation of Minutes of 229th Meeting of OCC Sub-Committee of NERPC

The minutes of 229th meeting of OCC Sub-committee held on 22.08.2025 at NERLDC Conference Hall, Guwahati were circulated vide letter No. NERPC/SE (O)/OCC/2025/ 2040-2082 dated 8th September, 2025.

No comments were received from constituents

Sub-committee may confirm the minutes of 229th OCCM

2. PART-B: ITEMS FOR DISCUSSION

AGENDA FROM NERPC

2.1. Outage planning

I. Generation Planning (ongoing and planned outages)

a. In 217th OCCM, NEEPCO informed that they would provide daily inflow data for storage-type Hydro PS. NHPC also agreed to provide inflow data as per the NER operational data format. Based on that data provided from NEEPCO and NHPC present per day MU and projected number of days of operation.

Plants	Reservoir Level in meters (as on 20/08/2025)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong STG II	722.90	177.62	0.55	323
Kopili	604.55	61.00	4.00	15
Doyang	319.00	22.00	1.62	14
Loktak	767.87	92.00	2.47	37

The outage of other generating stations may be approved considering the present water levels in reservoirs. CEA has approved the generation outage plan for FY 2025-26. All the utilities may take note of it and in case of any modification from the Approved Planned Outages, the same may be finalized in consultation with GM Division.

b. Outage Planning of Transmission elements

As per the Outage planning procedure of NER the planned outages approved in the OCC forum has to be reconfirmed by the availing utilities on 10:00hrs. of D-4 to 12:00 hrs. of D-3) to NERLDC in order to either avail the approved shutdown or cancel it.

If an outage is to be availed on say 10th of the month, the shutdown availing agency would reconfirm to NERLDC between 10 hrs. of 6th of the month to 1200 hrs. of 7th of the month. This practice is necessary to ensure optimal capacity utilization and the time required for associated system study/coordination by/amongst RLDC/NLDC.

Utilities have submitted the shutdown proposals for the month of October 2025 for discussion in OCC shutdown discussion meeting. Forum may deliberate upon the shutdown proposals.

2.2. Measures suggested for Indian Power system, in light of the Spanish Peninsular blackout occurred in April'25

A meeting was held under the chairmanship of the Secretary (P) on 27.08.2025 to discuss the Spanish Peninsular blackout event wherein some measures were suggested for Indian power system. All the power utilities of NER are requested to comply with and implement the suggested measures. Minutes of the meeting is attached as **annexure 2.2.**

Forum may deliberate

AGENDA FROM NERLDC

2.3. Operational Performance and Grid discipline during August 2025:

NERLDC may present the Operational Performance and Grid Discipline Report for the month of August 2025.

2.4. Early commissioning of 2nd circuit of 220 kV Mariani (PG)–Mariani (AS) Line

On 19th August 2025, 220 kV Mariani (PG) – Mariani (AS) Transmission Line recorded a loading of 233 MW. The said line continued to remain loaded above 200 MW throughout the peak demand period on 20th August 2025. Due to this persistent overloading, a hotspot developed at the 220 kV bay at Mariani (AS), ultimately necessitating emergency shutdown of the line on 19th, 20th, 21st and 22nd August 2025. It was further observed that lower generation within Upper Assam (NTPS, LRPP and NRPP plants) contributed significantly to the excessive loading of the said transmission line

The repeated emergency shutdown of the 220 kV Mariani (PG)–Mariani (AS) line has not only compromised the reliability of the Upper Assam system under N-1 contingency conditions, but has also resulted in increased loading of the 220 kV Balipara–Sonabil DC line, thereby adversely affecting the reliability of power supply to the capital city of Assam.

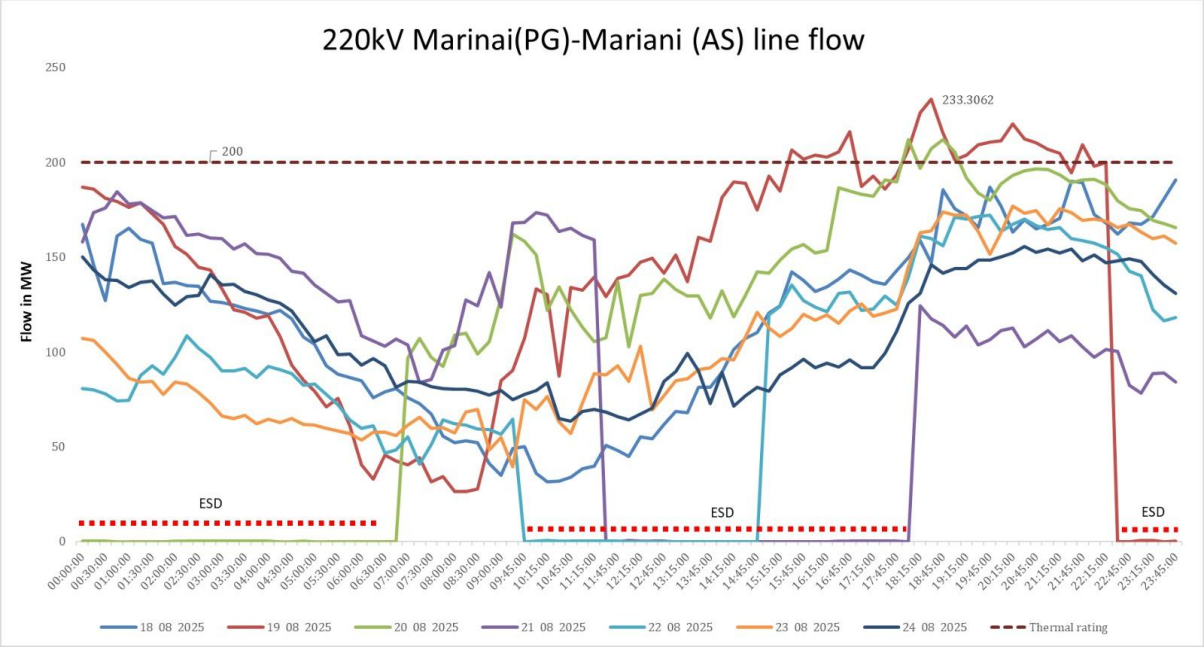


Fig: Power flow through 220 kV Mariani (PG) – Mariani (AS) line

With the availability of the 400 kV Mariani (PG) system, additional power import into Upper Assam is expected during high demand scenarios or low generation within Upper Assam system. Therefore, strengthening of the 220 kV Mariani corridor has become imperative to ensure a reliable and secure power supply to the Assam power system.

In view of the above, and to keep Assam system secure and reliable, following measures are required to be taken on urgent basis:

1. Internal generation of Upper Assam (NTPS, LRPP and NRPP plants) to be maximized in order to meet high demand period of Assam
2. Early commissioning of the second circuit of the 220 kV Mariani (PG) – Mariani (AS) Transmission Line by AEGCL.
3. Bay upgradation of 220 kV Mariani (PG) – Mariani (AS) Transmission Line at Mariani (AS) –Shall be done by PGCIL

Prompt intervention in this matter will be instrumental in safeguarding the reliability and security of NER grid.

2.5. Persistent Over-Drawl by Tripura during Low-Frequency Conditions on 08th & 09th September 2025

Indian electricity grid experienced low-frequency scenarios on 08th Sept.2025 and 09th Sept. 2025, particularly during the evening peak hours. Frequency trends for these two days are attached in **Annexure-2.5.1**. From the frequency trends, it can be seen that the grid frequency remained below the IEGC band for prolonged periods during the evening peak hours. The minimum frequency recorded on 08th Sept. and 09th Sept. 2025 are 49.43 Hz at 19:14 hrs and 49.41 Hz at 18:56 hrs respectively.

During the low-frequency period, Tripura was overdrawing to the tune of 40MW consistently **(Annexure-2.5.2),** in spite of repeated instructions issued by GRID-INDIA, NERLDC Control Room to adhere to drawl schedule and support frequency recovery. Such sustained over-drawl during low frequency conditions severely undermines grid stability/ jeopardizes real-time operations and is in violation of IEGC regulations.

The matter regarding over-drawl by Tripura was deliberated under Item No. 2.10 of the 226th OCCM held on 20th May 2025, wherein Tripura was advised to refrain from over-drawl during low frequency conditions.

It is observed that Tripura is heavily reliant on the Real-Time Market (RTM) to meet its demand. As per the report submitted by Member (Technical), CERC to the Hon'ble Commission in compliance with the CERC Suo-Moto Order 9/SM/2024, SLDCs were advised to proactively plan their power procurement in advance to reduce dependency on the Day- Ahead Market (DAM) and Real-Time Market (RTM), as these markets do not guarantee assured power availability.

Based on the quantum of reserves (50MW) as calculated by NLDC, Tripura at present is not having sufficient reserves to reduce the Area Control Error/overdrawal during the prolonged low-frequency scenario. In 29th TCC/RPC meeting (Agenda Item No. 2.4), it was highlighted that quantum of reserve requirements can be reduced if states strictly adhere to scheduled drawls. Continued over-draw from grid will lead to increased requirement of reserves in future.

SLDC Tripura is requested to maintain drawl as per schedule and adhere strictly to the instructions issued by NERLDC

2.6. Regarding non-submission of Demand forecast and Resource Adequacy (RA) data as per IEGC 2023

IEGC 2023 mandated that each SLDC and such other entities (like bulk consumers) which are directly connected to ISTS will carry out the demand estimation for both active and reactive power (as per clause 31.2(a), 31.2(b), 31.2(f)) along with the generation capacity availability (as per clause 31.4(b)) for meeting the projected demand and submit the same to respective RLDC for regional level forecast by method of aggregation, each RLDC would further furnish the regional level as well as state level forecast data to NLDC for computation for all India level demand and generation estimation (as per clause 31.2(g)).

The timeline for submitting these data to RLDC/NLDC would be as given in Table-I (as per IEGC clause 31.2(h)).

Table-I: Timeline for Demand Estimation

Daily demand estimation	10:00 hours of previous day
Weekly demand estimation (Monday to Sunday)	First working day of previous week
Monthly demand estimation	Fifth day of previous month
Yearly demand estimation	30th September of the previous year

In view of the above, it has been observed that Demand estimation and RA data is not being submitted regularly/ in prescribed format for month of August and September 2025. The status of submission is shown in the table below:

	Day-Ahead Demand Forecast	Week Ahead Demand Forecast							Month Ahead Demand Forecast		Year Ahead Demand Forecast for 2026-27
		Wk 18	Wk 19	Wk 20	Wk 21	Wk 22	Wk 23	wk 24	Sep-25	Oct-25	
AP											
Assam											
Manipur											
Meghalaya											
Mizoram											
Nagaland											
Tripura											

Not in prescribed format
Data not submitted
Data Submitted

To facilitate effective operational planning, forecast and Resource adequacy data is essential. Hence, all SLDCs are requested to submit the required forecast data as per formats mentioned in NER operating Procedure 2025 and IEGC timeline mentioned above regularly.

2.7. Advisory Regarding secure operation of NER grid during Durga puja 2025 and Diwali 2025

In order to ensure smooth and reliable power system operation during the upcoming festive season — Durga Puja 2025 (28th September to 2nd October 2025) and Diwali 2025 (20th & 21st October 2025) — all constituents are requested to kindly adhere to the following measures:

1. Constituents must strictly adhere to their respective schedules from the grid at any point in time.
2. Take extra measures for proper forecasting of demand and ensure sufficient spinning reserves are maintained to meet any grid contingencies. Any revision in forecasts is to be intimated to NERLDC.

3. State generation resources should be aligned with demand and spinning reserve requirements.
4. Generators are to follow their respective schedules strictly and avoid under-injection into the grid.
5. All generating station, substations, SLDCs in the respective control areas may be sensitised for deployment of extra trained manpower, ready availability of restoration documents/ procedures etc.
6. Ensure healthiness of protection schemes, defense mechanisms (UFR, SPS, ADMS), telemetry, voice communications, DG sets for black start capabilities etc.
7. In case of high/low voltages in the system, generating units shall absorb/inject adequate reactive power to control high/low voltage. Reactors and capacitor banks to be maintained in healthy condition for switching on/off as per the requirement.
8. In case of skewed power flows, line loading to be always maintained within safe limits. Considerable margins to keep in the network for safe operation.
9. Avoid any planned outages of critical transmission elements and generating units during the festive period unless unavoidable.

In addition, all SLDCs are requested to provide respective demand forecast for the festive period such that resource adequacy assessment can be done by NERLDC and further shared with respective SLDC.

All constituents' active cooperation is solicited to maintain grid parameters within IEGC limits and to ensure safe, secure, and reliable operation of the NER Grid during the festive season.

2.8. Strict adherence to timeline of First Time Charging Procedure by all the utilities

As per the FTC procedure, all the Transmission Licensees including deemed transmission licensees or cross-border entity (Indian side) intending to energize a new or modified power system elements, which is part of interstate

transmission system, shall intimate the concerned RLDC the details as per the formats, at least (10) days prior to the anticipated date of first time charging. However, it has been observed that some utilities are submitting requests to charge the elements without adhering to this timeline, which creates challenges in proper checking and validation.

Additionally, the whitelisting process for the First Time Charging (FTC) portal at NERLDC is being implemented to restrict access to only the concerned utilities, as part of efforts to mitigate cyber threats and enhance cyber resilience.

Therefore, it is requested to strictly follow the timeline as per FTC procedure to ensure the smooth and reliable integration of new or modified power system elements.

2.9. Non-compliance of instructions of NERPC forum -189th OCCM and IECG-2023 by SLDC Tripura regarding First Time Charging (FTC) of elements under NERPSIP:

In 229th NETeST meeting, NERLDC informed that as per the minutes of Special Review meeting regarding implementation of NERPSIP/Comprehensive Scheme held on 02nd May 2025, NERPSIP-Tripura declared that out of 151 elements, 107 elements have been commissioned. Further, as decided in 189th OCCM of NERPC, NERPC instructed all SLDCs to submit documents pertaining to FTC to NERLDC before commissioning of any element under NERPSIP. However, even after commissioning of 107 elements under NERPSIP-Tripura, there is no information available with NERLDC, which is resulting in mismatch between SCADA database of NERLDC and SLDC Tripura. The minutes of special review meeting and 189th OCCM are attached as **Annexure -2.9.1** for reference.

SLDC Tripura was advised by the forum to submit all the documents as per the FTC procedure before the 230th OCCM.

Further NERLDC would like raise the concern regarding the charging of Deemed ISTS elements: LILO of 132 kV PK Bari – Ambassa at Manu and 132 kV Manu S/s on Sep'24 and Jul'25 respectively. The information is collected from CEA Monthly Progress Report on Central Funded Schemes (July 2025) attached as **Annexure-2.9.2** which is clear violation of IEGC-2023. regulations as mentioned below:

- **Regulation 8 (Procedure for Connection):** FTC documentation and compliance with connection requirements to be ensured prior to energisation.
- **Regulation 11 (Data and Communication Facilities):** Reliable communication and data exchange to be maintained in line with CERC/CEA standards. The present SCADA mismatches indicate non-compliance.
- **Regulation 14 (Protection Code):** Protection settings to be submitted to RPC, duly approved, and coordinated. Any changes are to be intimated within a fortnight.

SLDC Tripura and TPTL are requested to justify the non-compliance as mentioned above.

SLDC Tripura may update on the status of submission of FTC documents as advised in 229th OCCM.

2.10. Status Update on Reliability Issues Discussed in 228th OCC Meeting

Multiple reliability issues were raised during the 228th OCC meeting. To improve the reliability of the power system in the North Eastern Region, it is essential to track the current status of the works being undertaken at the sites. It is therefore requested that the present status of the following works be provided by the utilities so that the agreed timelines may be adhered to.

Sl. No	Agenda	Owner	Deliberation in 228th OCC meeting	Present status
1	Delay in Commissioning of 400 kV Transfer Bus at Kameng HEP	NEEPCO	NEEPCO informed that the transfer Bus has not been operational since the CoD of the station due to disagreement with the OEM (BHEL) on the design related matter. He added that BHEL has recently agreed on the design as proposed by NEEPCO and the work will start shortly. Further he informed that the work will tentatively be completed by March'26.	
2	Early Restoration of Phase-B Isolator of 400 kV Balipara–Kameng–1 Line at 400kV Kameng Bus	NEEPCO	NEEPCO informed that the phase B isolator of the Balipara-Kameng I line has got burnt and its replacement requires shutdown of both the 400kV buses as working with outage of only one poses safety risk to workmen. The NERLDC stated that the current scheme at the 400 kV bus of Kameng HEP is a Double Main Bus scheme. This configuration enables maintenance activities on isolators to be performed without any power interruptions. The forum acknowledged this and requested NEEPCO to reassess the restoration work and plan the shutdown accordingly.	

Sl. No	Agenda	Owner	Deliberation in 228th OCC meeting	Present status
3	Opening of dia at 400kV Palatana susbstation during unit shutdown	OTPCL	OTPC informed that Dia and main CBs are kept open due to safety reason. NERLDC highlighted that this could affect the reliability of the Bus switching scheme. Forum opined that opening of isolator and switching on the earth switch should ensure sufficient safeguard for maintenance work and opening the main and Ties CBs are not required. Forum requested OTPC to connect the tie and Main Bay so that advantage of one and a half switching scheme is ensured for reliable and secure grid operation. OTPC representative stated that the matter will be first discussed internally and accordingly a response will be provided to the forum within week.	
4	Operation of 400 kV Switchyard on Single Bus mode since commissioning at Panyor Lower HEP (PLHEP)	NEEPCO	NEEPCO informed that the work is expected to be completed by Nov'25.	

Sl. No	Agenda	Owner	Deliberation in 228th OCC meeting	Present status
	Urgent Review of Online Element Transfer at 132 kV PLHPS	NEEPCO	NEEPCO informed that budgetary offer has not been received yet; tentative completion target is June'26.	

Present status may be provided.

2.11. Operational Planning and Resource Adequacy for October 2025

The Operational Planning and Resource Adequacy assessment for October 2025 will be presented in the meeting for review and comments

- All utilities are requested to review the assessment and provide any necessary inputs or observations.
- Kindly share your feedback at the earliest to ensure comprehensive planning.

2.12. Submission of UFR (or AUFLS) healthiness Testing Reports by Distribution Licensees, STUs, and Bulk Consumers

In recent days, the Indian Grid has witnessed frequent low-frequency occurrences, with frequency dipping close to UFR Stage-1 (49.4 Hz). As per the provisions of Chapter 6 (Operating Code) of the IEGC'23, it is mandatory for all Distribution Licensees, STUs, and Bulk Consumers to install and maintain UFRs/df-dt relays in their systems as per the plan finalized by NERPC.

Regulatory Provisions in IEGC-2023:

- Automatic UFRs and df/dt relays shall be provided to arrest frequency decline that could otherwise lead to grid failure.

- The under-frequency and df/dt load shedding relays are always functional.
- Demand disconnection shall not be set with any time delay in addition to the operating time of the relays and circuit breakers.
- Default UFR settings: Stage-1 at 49.40 Hz, Stage-2 at 49.20 Hz, Stage-3 at 49.00 Hz, Stage-4 at 48.80 Hz.
- SLDC shall report the actual operation of UFR and df/dt schemes and load relief to the concerned RLDCs and RPCs and publish the monthly report on its website.
- RPC to carry out monthly review and random inspection of UFR & df/dt relays, and publish review reports.

Since df/dt scheme has not yet been implemented in the NER grid, the UFR scheme remains the only defense mechanism currently available to arrest extreme low-frequency conditions in the Grid.

Accordingly, all concerned SLDCs are requested to coordinate within their States and furnish the stage-wise UFR testing reports to the NERPC Secretariat and NERLDC. This is essential to ensure the continued effectiveness and reliability of the existing defense mechanism in NER.

Member may discuss.

2.13. Ensuring Availability & Healthiness of ADMS Scheme in NER States

Status of ADMS Installation and Functionality
(As deliberated in the 222nd OCC meeting dated 17.01.2025)

Name of the Utility	SAT Completion	DoCO Status
DoP Arunachal Pradesh	27-01-2021	Enabled & in operation
AEGCL/APDCL	07-12-2020	Enabled & in operation

MSPCL	24-11-2020	Enabled & in operation
MePTCL/MePDCL	31-08-2020	Enabled & in operation
P&ED Mizoram	22-02-2021	Enabled & in operation
DoP Nagaland	17-11-2020	Enabled & in operation
TSECL	24-12-2020	Enabled for two substations; yet to be enabled for three substations

Status of ADMS Operations during Low Frequency Scenario (8th & 9th September 2025)

During the recent frequency excursion near the UFR stage (49.41 Hz), inputs were gathered through verbal communication from Tripura, Arunachal Pradesh, Manipur & Nagaland SLDC's and through email communication from Assam, Meghalaya, and Mizoram SLDC's regarding operation status of ADMS:

- **Assam, Meghalaya, Arunachal Pradesh, and Mizoram:** No ADMS operations were recorded due to under-drawl during the low-frequency period.
- **Tripura:** ADMS remained non-operational due to communication issues.
- **Manipur & Nagaland:** ADMS remained non-operational as AMC has expired.

Hence, the following utilities are requested to provide updates:

- Tripura, Manipur, and Nagaland: Restoration of ADMS functionality.
- Manipur & Nagaland: Timeline for AMC renewal.
- Tripura: Status of enabling ADMS in the remaining substations.

- All states: Confirmation of ADMS healthiness checks and action plan for reliable operation during future low-frequency events.

2.14. Handholding Initiative by NERLDC for Capacity Building of SLDC Personnel in North Eastern States through Short-Term Exposure Program

Pursuant to deliberations under Agenda Item 2.4 of the 28th TCC Meeting of NERPC, and in consonance with the Workforce Adequacy Guidelines for Load Despatch Centres as well as the **Short-Term Exposure Program Guidelines of the Ministry of Power (MoP)**, NERLDC, has already facilitated short-term exchange programs, during which 47 executives from various SLDCs were hosted at NERLDC for hands-on exposure. Building upon this encouraging engagement and with a view to institutionalizing the process, NERLDC now proposes to operationalize a comprehensive and structured Handholding Initiative for the State Load Despatch Centres (SLDCs) of the North Eastern Region.

The North Eastern States present unique operational complexities, stemming from their geographical and infrastructural context. These include a hydro-dominated generation portfolio with sharp seasonal variation, transmission corridors with limited redundancy, heightened exposure to natural calamities such as cyclones, landslides and floods, and the emerging challenge of integrating large hydro resources. In addition, several SLDCs in the region remain institutionally evolving, often constrained by limited manpower, inadequate exposure, and modest technological depth compared to their counterparts elsewhere. These structural constraints underscore the imperative for targeted, sustained, and collaborative capacity-building interventions.

Within this framework, the envisaged Handholding Vis-à-vis Short-Term Exposure Program shall be anchored through the constitution of dedicated groups of NERLDC executives, each aligned with a designated SLDC. These executives will undertake periodic engagements and visits to the respective SLDCs to gain a first-hand appreciation of their operational realities, identify

specific challenges, and deliver customized training interventions and workshops at the SLDC level. This field-level engagement will be strategically reinforced through a parallel track of structured immersion at NERLDC**,** wherein nominated SLDC personnel will participate in further training / workshops, hands on exercises and guided mentorship**.**

This dual-channel architecture—combining localized handholding at SLDC premises with centralized immersion at the Regional Load Despatch Centre**—** is designed to create a comprehensive, practice-oriented learning ecosystem that simultaneously enhances individual competencies and fortifies institutional capacity across the North Eastern States.

The Hand Holding Program objectives, in alignment with MoP guidelines, are to:

- Foster collaboration, cooperation, and communication between Regional and State Load Despatch Centres;
- Promote functional cohesion and harmonization in grid operations;
- Encourage peer-to-peer learning and structured professional exchange;
- Facilitate the sharing of best practices in scheduling, settlement, contingency management, restoration, and cyber-security preparedness;
- Build operational cohesion in system restoration and emergency response protocols
- Strengthen capacity in forecasting, resource adequacy studies, optimization studies and emerging technologies**;**
- Ensure enhanced hands-on exposure and operational readiness of system operators.

This initiative, steered under the overarching mandate of Grid India, aspires to create a durable knowledge-sharing ecosystem and secure improvements in the preparedness and functional effectiveness of SLDCs. By embedding regulatory expectations into structured handholding, the program seeks to harmonize operational practices and augment the resilience of the North

Eastern power system, in alignment with national objectives of secure and reliable grid management.

Submitted for consideration and appropriate decision, please.

2.15. Earthquake Event Analysis in NER Grid at 16:41 Hrs on 14.09.2025

Due the earthquake on 14.09.2025 at 16:41, NER Demand met reduced from 2579 MW to 1961 MW within 3 minutes (total reduction in load-618 MW). No significant impact on generation side was observed and reported.

Details of Earthquake Parameters are as follows:

Magnitude: 5.8, Date: 14/09/2025, Time: 16:41:30 IST, Latitude: 26.78 N, Longitude: 92.33 E, Depth: 5 Km, Region: Udalguri, Assam

Following were observed through SCADA Telemetry during the event:

- The total load reduction in the NER was 618 MW.
- The major load reduction occurred in the Assam (518 MW) power system, while partial load reductions were observed in Meghalaya(44MW) and Arunachal Pradesh (7 MW).
- No visible load reduction was reported in Manipur, Nagaland, Tripura, and Mizoram.
- At 16:47 Hrs, the 132 kV Balipara–Kameng line was manually tripped from Balipara end, following heavy sparking in the R-phase line isolator at Balipara end due to earth quake.
- As reported by SLDC, load loss was reported only at the 33 kV level and below. No load loss occurred at 132 kV and above.

The Forum is requested to direct the utilities to provide details of nature of switching during the transient period that led to the majority of load loss in the Assam Power System, and to define the Standard Operating Procedures (SOP) to be adopted at the Discom level during such Acts of God event (e.g., earthquake, cyclone, etc.) in order to enhance system resilience.

Forum may deliberate

Agenda from NEEPCO

2.16. Rejection of DC revision by NERLDC and subsequent blame on maintenance activities of KamengHEP

With ref. to attached email (annexure 2.16) received from NERLDC Control Room on 2nd Sep'25, the following points are highlighted.

1. Kameng Units vibration problem is encountered since commission of the units. However, putting best effort from the O&M engineers, the units are now almost stable and generating.

2. The shutdown of Unit-4 due to high TGB vibration was taken recently two times as referred by NERLDC email is due to presence of foreign materials & GV lock failure respectively.

3. The shutdown request on 02.09.25 is due to vibration probe mul-function.

With ref. to the attached email, shutdown for the Unit-4 was applied for replacement of TGB vibration probe as stated in shift in-charge email. But in reply to our shutdown request, the DC revision request was rejected in the portal as well as blaming in the email that our maintenance is not proper. As you are well aware that the vibration of TGB may contribute by different components and it is not a recommended practice to change everything without checking. In every shutdown, the required maintenance was done properly due to which unit put on grid at the minimum time but due to encounter of different kinds of issues, we are forced to take repeated shutdown of the unit for the same reason.

As the NERLDC was not aware about the ground situation of the unit , thus NERLDC shift in-charge (S) cannot suggest such adverse comment on NEEPCO's O&M practices. This kind of behaviours and rejection of Emergency shutdown request by generator, may lead to the damage of NEEPCO's property. Further, as per IEGC regulation, unit may be withdrawn by Generator under emergency condition for safety of the equipment with real time NERLDC code.

Moreover, NERLDC Shift In charge was asking in his attached email to confirm from NEEPCO that such type of vibration issue will not be repeated. For any engineering community, it is not possible to guarantee as desired by the shift In-charge, NERLDC.

Considering the above facts, such kind of practices adopted by NERLDC is not in favor of stakeholder, NER Grid.

Forum may discuss

PART-C: METERING ITEMS

3.1. Non-Receipt of data from Kolasib Substation:

Weekly SEM data of 132 kV Kolasib (Mizoram) Substation is important for accounting of Mizoram drawal. However, SEM data from the said substation is not being received since 30/06/2025. Issue in Vinplus Software was stated in 229th OCCM. Mizoram stated that the SEM data would be made available from the coming week. However, NERLDC is yet to receive data from the said substation.

Mizoram may kindly update.

3.2. Issue in SEM data of 132 kV Dharmanagar end of Dullavcherra Feeder:

It has been observed that the data received from Dharmanagar end is erroneous and the same neither matches with SCADA data nor with data from Dullavcherra end. Several follow ups have been initiated regarding the matter with utility, however, matter is yet to be resolved.

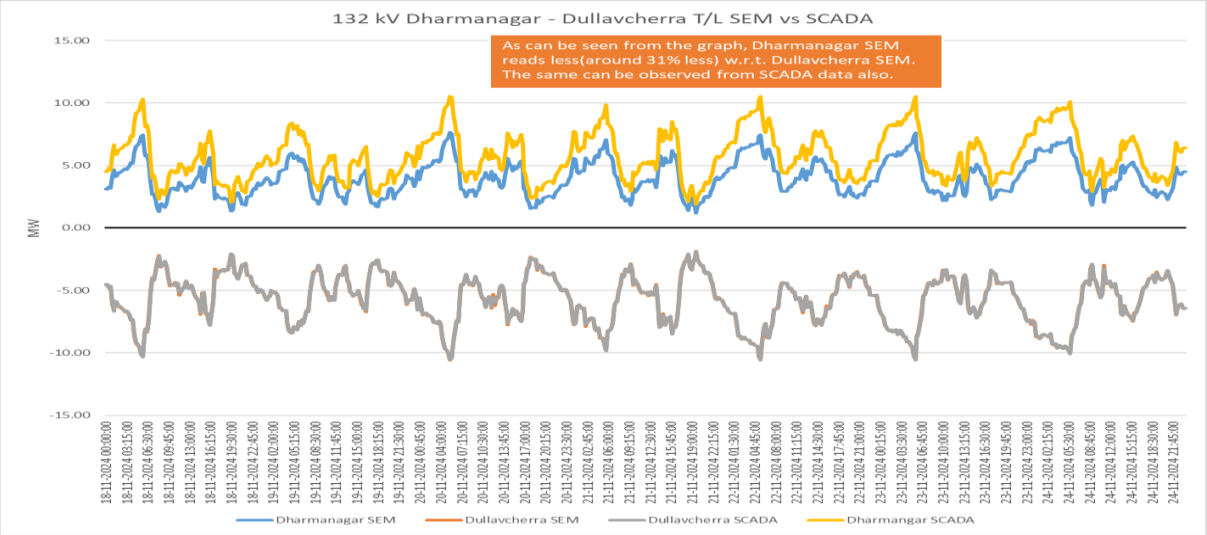
It is also to be noted that since 222nd OCCM, data from Dharmanagar S/S has not been received by NERLDC from said substation. Issue with Laptop had been mentioned by Tripura in the previous OCCM. Tripura stated that the Laptops are still under procurement and the same shall be procured by next OCCM.

However, the same is yet to be resolved. Tripura is hereby requested to provide updates on the issue and also provide contact details of personnel stationed at Dharmanagar S/S for future communication.

As discussed in 228th OCCM, a letter to Managing Director, TPTL has also been sent on 11-08-2025 on the above stated subject. In the 229th OCCM, Tripura SLDC informed the forum that the required laptops have already been

procured. However, they requested assistance from PGCIL for installation of the relevant software.

Tripura may update status.



3.3. Issue in receipt of data from 132 kV Tipaimukh S/S

Weekly SEM data from 132 kV Tipaimukh (Manipur) S/S is essential for accounting of Manipur Drawal. However, SEM data for said substation is not being received. On query, downloading data from DCD to laptop has been failing.

In the 229th OCCM, Manipur SLDC informed the forum that the procurement process has been initiated and it's with the finance dept. The forum advised Manipur SLDC to expedite the procurement process and complete it at the earliest possible. However, data from said Substation is yet to be received at NERLDC end.

Status of the same may be reviewed.

3.4. Issue in Receipt of Data data from Udaipur S/S:

Weekly SEM data from 132 kV Udaipur (Tripura) Substation is not being received since replacement of old LnT Meter with Secure Make Meter on 23-12-2024(for 132 kV Udaipur end of Palatana T/L). In 222nd OCCM, the forum advised Tripura to resolve the issue by next OCC meeting. Data from the replaced meter is yet to be received by NERLDC.

As discussed in 228th OCCM, a letter to Managing Director, TPTL has also been sent on 11-08-2025 on the above stated subject. In the 229th OCCM, Tripura SLDC informed the forum that the required laptops have already been procured. However, they requested assistance from PGCIL for installation of the relevant software

Tripura may update status.

3.5. Receipt of SEM data from 132 kV Budhjungnagar, 132 kV Ambassa, 132 kV Dharmanagar, 132 kV PK Bari & 132 kV SM Nagar (TSECL) Substations:

As per 175th OCCM dated 18th Feb 2021 agenda D.12, Indigrid and Powergrid NERTS were given responsibility to collect and send SEM data on weekly basis for Tripura owned substations viz 132kV Ambassa S/s,132kV Budhjungnagar S/s, 132 kV PK Bari S/s and 132 kV SM Nagar S/s for the interim period, due to shortage of DCDs. The relevant extracts are furnished below

Quote:

"The forum noted that due to the existing shortage of DCDs, the same cannot be provided to Tripura for some time for new locations. This creates difficulty in getting SEM data from Budhjangnagar, Ambasa, PK Bari and SM Nagar. The Matter was discussed and it was decided that during the interim period Powergrid NERTS will provide readings from PK Bari and SM Nagar of Tripura

and Sterlite will provide readings from Budhjangnagar and Ambassa of Tripura."

Unquote

As per IEGC 2023 Clause 49(12)(e) entity shall be responsible to send weekly meter data to RLDC. The relevant extracts are furnished below

Quote:

"Entities in whose premises the IEMs are installed shall be responsible for (i) monitoring the healthiness of the CT and PT inputs to the meters, (ii) taking weekly meter readings for the seven day period ending on the preceding Sunday 2400 hrs and transmitting them to the RLDC by Tuesday noon, in case such readings have not been transmitted through automatic remote meter reading (AMR) facility (iii) monitoring and ensuring that the time drift of IEM is within the limits as specified in CEA Metering Regulations 2006 and (iv) promptly intimating the changes in CT and PT ratio to RLDC."

Unquote

In the 228th OCCM, Tripura stated that the Laptops are still under procurement and the same shall be procured by next OCCM.

As discussed in 228th OCCM, a letter to Managing Director, TPTL has also been sent on 11-08-2025 on the above stated subject. In the 229th OCCM, Tripura SLDC informed the forum that the required laptops have already been procured. However, they requested assistance from PGCIL for installation of the relevant software.

Tripura may Update Status.

PART-D: ITEMS FOR UPDATE/FOLLOW-UP

4.1 Status Update and Revival Plan for Long-Outage NER Generators & Transmission Lines

The following NER generators & transmission lines have been under outage since long time. Considering the increasing demand trend and reliable power supply in the Region, respective utilities are requested to intimate the updated expected date of revival & take necessary action to restore the mentioned units & lines at earliest:

Generating Units:

As updated in 228th OCC meeting

S. No.	Element Name	Outage time	Reason	Expected date (as updated in 228th OCCM)
1	Khandong Unit II	10:45 Hrs of 26-03-2022	Flash flood of reservoir causing submergence of the Khandong station	Khandong Unit II- July 2025
2	LTPS Unit 7 (20 MW)	17:08 hrs of 08-04-2024	High Vibration issue in Bearing Block-4 turbine bearing of gas turbine	Spare not available, waiting for OEM reply. Process may take significant time.
3	Baramura Unit 4	23:20 Hrs of 05-06-2024	gear box issue, leakage in auxiliary of gear box, display of control unit is not working due to suspected card issue	Baramura Unit 4. Tripura apprised that there is technical problem in rotor. Nonfunctional due to non-availability of gas. Forum advised

				to resolve rotor issue in the unit.

Transmission Lines:

As updated in 228th OCC meeting

S. No	Element Name	Outage time	Reason	Expected date (as updated in 228th OCCM)
1	400 kV Imphal - Thoubal I	18-10-2021	Tripped on DP, ROW issue.	RoW issue. Law and order situation is fragile.
2	132 kV Jiribam-Rengpang	17-11-2023	Tripped on Earth fault	Tower shifting required due to NHIDCL work. Resurvey done in 1st week of May'25. 16 towers affected. Revival will take significant time.
3	132kV Ningthoukhong-Churachandpurckt 1	04-08-2024	Z-1, 18.5 km, O/C	Elements under outage for more than 6 months and as elements is under intra-state jurisdiction, SLDC may follow their FTC

				procedure (SIO etc may be obtained) and copy may be given to NERLDC.
4	132kV Srikona – Panchgram	14-01-2019	-	Survey complete, estimate in process

Utilities may update

4.2 Implementation/Review of Islanding schemes of NER:

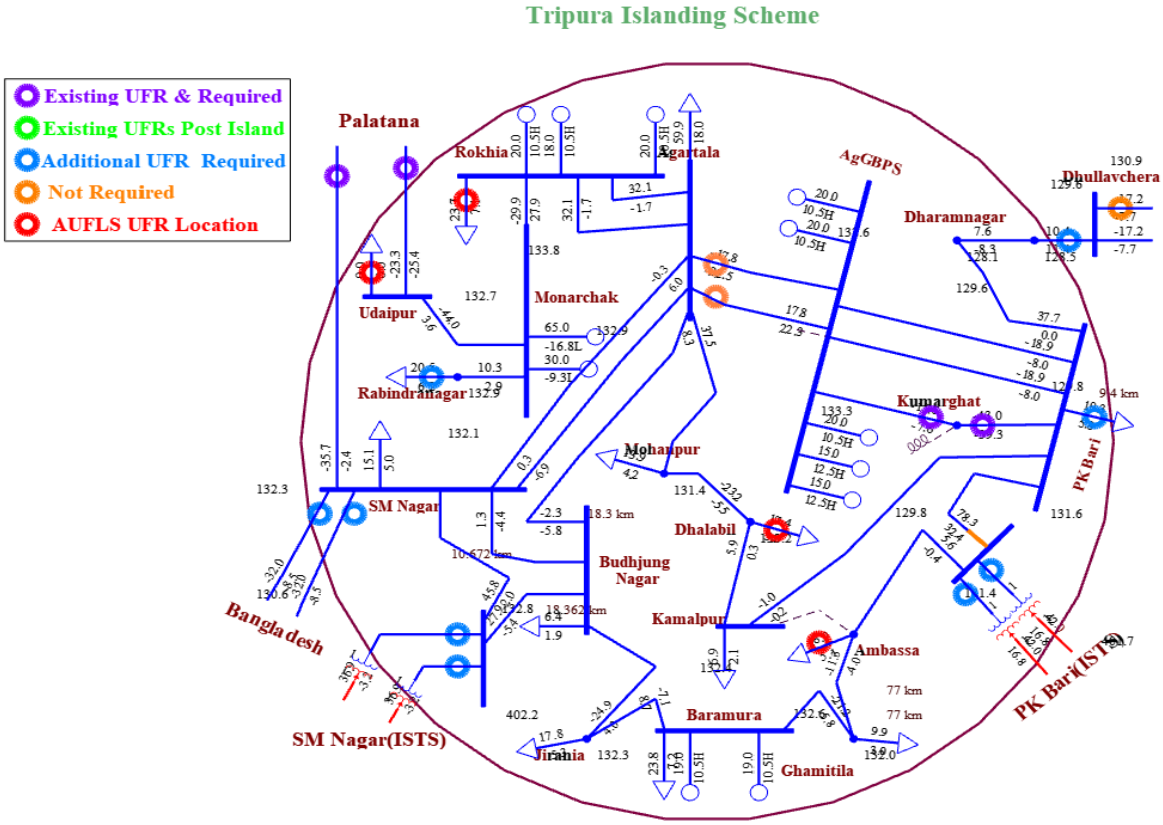
As per Clause 10 of the Central Electricity Authority (Grid Standards), Regulations, 2010: "Islanding Schemes- (1) The Regional Power Committees shall prepare Islanding schemes for separation of systems with a view to save healthy system from total collapse in case of grid disturbance. (2) The Entities shall ensure proper implementation of the Islanding Schemes". In this regard the Islanding schemes which are being planned/have been implemented in NER are mentioned below, along with the updates from 227th OCCM.

A. Guwahati Islanding Scheme

Being discussed in TESG meetings. Queries raised by TESG being replied

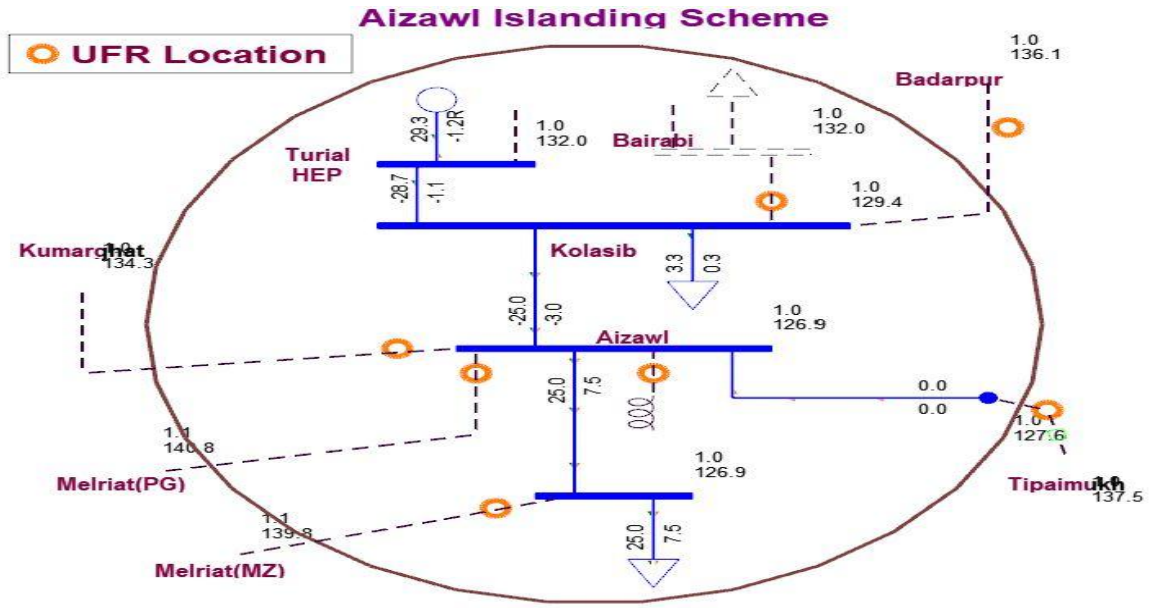
B. Tripura/Agartala Islanding Scheme

OTPC- done its part, Powergrid -will complete shortly, NTL: absent Tripura: to buy UFRs. NERLDC suggested to check whether numerical relays are present or not



C. <u>Aizawl Islanding scheme</u>

Under implementation.



D. <u>Meghalaya/Shillong Islanding Scheme</u>

NERLDC informed that Stability issues observed due to small units. Further study to be done

In 229th OCCM, Forum decided/ Utilities updated as follow -

S.N.	***Island***	***Update (229th OCCM)***
1.	Guwahati	AEGCL informed that PSDF funding is approved, except for communication part. At present Tripartite agreement (PSDF, AEGCL and Government of Assam) is underway. NERLDC requested the forum to form a committee to prepare and finalise the Technical Specification & detailed BoQ. The forum approved the following names for the committee members: 1. Sri Arup Sarma, AGM, Communication Division, LA, AEGCL 2. Sri Dhriti Lochan Hazarika, AGM (BD), HQ, AEGCL 3. Sri Ranjan Kr. Goswami, AGM(SCADA), SLDC Assam 4. Sri Pankaj Bikash Sarmah, AGM (R), APGCL 5. Sri Abhishek Kalita, Deputy Manager, LA T & C & Comm., AEGCL 6. Sri Manash Jyoti Baishya, Chief Manager, AM, POWERGRID 7. Sri G. Sonwal, DGM, Electrical Maintenance, NTPC Bongiagoan 8. Sri Saugato Mondal, GM, NERLDC 9. Sri Palash Jyoti Borah, Chief Manager, NERLDC 10. Sri Sakal Deep, Deputy Manager, NERLDC. The forum advised the committee to complete the task and submit the Technical Specification & detailed BoQ by 15th October 2025. Regarding the communication part, MS NERPC the matter will be taken up NPC division of CEA on priority.

2.	Tripura/Agartala	Tripura – UFRs to be procured. Process will commence shortly Rest work done
3.	Kohima	Stability issues observed. Forum decided to drop the islanding scheme.
4.	Imphal	Loktak is going under R&M for a long duration, the scheme will be discussed after coming back from R&M.
5.	Aizawl	Implemented on 17th July'2025
6.	Meghalaya/Shillong	Dynamic study to be done. Multi-machine involved, which necessitates real time monitoring of load and generation and load in the machine, therefore PMUs and centralized processors are required, as done for Guwahati Islanding scheme

4.3 Automatic Under Frequency Load shedding (AUFLS) scheme of NER:

5 Status as updated in 229th OCCM

Name of the State/utility	**Installation of UFRs**	**Status of mapping**
Ar. Pradesh	Completed	DoP Arunachal Pradesh stated that mapping of feeder at Lekhi SS (Industry feeder, stage 1) completed For rest of the feeders and substations, coordination with GE is underway and will be taken up gradually.
Assam	Completed	Completed

Manipur	UFR installed but not enabled as system integration work is pending with GE. To be completed by June'25 end	Mapping to be completed within one week
Meghalaya	Completed	Completed
Mizoram	Completed	Coordination with GE is underway for mapping. SCADA integration of Shihmui completed but mapping left due to fibre issue. To be resolved within one week
Nagaland	Completed	Completed
Tripura	Completed	Tripura apprised the forum that that mapping at Ambassa is completed but integration is left, OPGW being laid, to be completed by next OCCM.

NERPC informed that AUFLS quantum has been revised for NER for the FY 2024-25 and presented the revised quantum for load shedding to the forum, which is provided below: –

UFR load shedding for NER States for the FY 2024-25

State	**stg I (MW)**	**Stg II**	**Stg III**	**Stg IV**
Ar. Pradesh	8.659594937	10.39151392	12.12343291	12.12343291
Assam	112.3419494	134.8103392	157.2787291	157.2787291
Manipur	11.54612658	13.8553519	16.16457722	16.16457722
Meghalaya	18.85556962	22.62668354	26.39779747	26.39779747
Mizoram	7.542227848	9.050673418	10.55911899	10.55911899
Nagaland	8.100911392	9.721093671	11.34127595	11.34127595
Tripura	16.85362025	20.2243443	23.59506835	23.59506835
Total	183.9	220.68	257.46	257.46

For FY 2023-24 (already under operation)

State	stg I (MW)	Stg II	Stg III	Stg IV
Ar. Pradesh	10	14	12	10
Assam	90	125	113	115
Manipur	10	10	10	10
Meghalaya	25	25	25	25
Mizoram	5	5	5	5
Nagaland	10	10	10	10
Tripura	15	12.2	21.2	30
Total	165	201	196	205

Regarding implementation of revised quantum, Manipur informed that the loads have been identified will be implemented shortly. Tripura left to implement.

Utilities may update

5.1 Monthly Review of LGBR

PARTICULARS (Peak Demand in MW as per LGBR vs Actual)	Jun-25 (LGBR)	Jun-25 (Actual)	July-25 (LGBR)	July-25 (Actual)	Aug-25 (LGBR)	Aug-25 (Actual)
Arunachal Pradesh	185	192	204	223	214	221
Assam	2586	2717	2787	2805	2835	2582
Manipur	247	242	229	233	261	233
Meghalaya	370	330	401	337	384	350
Mizoram	136	128	141	136	164	144
Nagaland	200	203	205	193	203	190
Tripura (exc. Bangladesh)	380	366	394	374	381	362
NER DEMAND (exc. Bangladesh)	3899	3947	4158	4088	4265	3922

PARTICULARS (Energy Requirement in MU as per LGBR vs Actual)	Jun-25 (LGBR)	Jun-25 (Actual)	July-25 (LGBR)	July-25 (Actual)	Aug-25 (LGBR)	Aug-25 (Actual)
Arunachal Pradesh	93	99	99	117.94	111	115.59
Assam	1312	1358	1543	1530.04	1521	1439.45
Manipur	105	88.3	91	99.54	85	94.72
Meghalaya	183	162.2	191	166.64	190	169.41
Mizoram	58	57.5	65	62.73	59	63.09
Nagaland	95	85.6	105	97.17	92	94.56
Tripura (excl. Bangladesh)	179	202.5	205	185.41	237	180.54
NER DEMAND (exc. Bangladesh)	2025	2054	2300	2260	2294	2158

LGBR projection for September'25, October'25 and Novemebr'25

PARTICULARS (Peak Demand in MW as per LGBR)	Sep-25 (MW)	Sep-25 (MU)	Oct-25 (MW)	Oct-25 (MU)	Nov-25 (MW)	Nov-25 (MU)
Arunachal Pradesh	212	103	199	102	199	94
Assam	3082	1562	2972	1355	2176	1056
Manipur	265	89	250	115	280	106
Meghalaya	349	166	424	259	479	263
Mizoram	162	62	163	77	176	81
Nagaland	201	94	205	100	206	82
Tripura (exc. Bangladesh)	409	196	390	199	345	159
NER DEMAND (exc. Bangladesh)	4396	2272	4386	2207	3624	1841

Forum may deliberate

5.2 Compliance with Annual Measurement of Harmonics, DC Injection, and Flicker as per CEA Regulations

As per the CEA (Technical Standards for Connectivity to the Grid) Regulations, Clause B1(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";

In accordance with this regulation, all Wind generating stations and generating stations using inverters connected to the grid are required to perform this test annually and submit the test report to the relevant utility authorities. All utilities are requested to provide an update on the current status of test reports and outline their future testing plans as per CEA guidelines.

Deliberation of the 226th OCCM

NERLDC informed that a mail has been sent by NERPC to the concerned states to provide testing details and reports for the Solar, Wind and IBR based generators but the reply is still awaited.

Assam informed that the matter is being taken up with the Solar developers.

Mizoram informed that price quotation has been asked from various agencies to carry out the tests at Selrui Solar plant and the reply is still awaited.

Forum exhorted the Asam and Mizoram to provide the required details at the earliest to NERPC and NERLDC. Also, the forum requested state SLDCs to provide the charging clearance for Solar, wind and IBR based plants only after ensuring compliance with CEA regulations on testing of Harmonics, DC injection and flicker. SLDs agreed to the same.

Deliberation of the 227th OCCM

Assam and Mizoram informed that corresponding SLDCs are taking up the matter with Solar developers, but no input has been received yet.

MS NERPC exhorted Assam and Mizoram to ensure compliance with the regulations and timely conduct of the tests.

Deliberation of the 228th OCCM

MS NERPC requested Assam and Mizoram to provide update on conducting of tests to NERPC via email.

No update in this regard has been received yet. Assam and Mizoram may update

States may update

5.3 Mock Black Start of Units in compliance with IEGC:

As per IEGC Clause 34 (3), The user shall carry out a mock trial run of the procedure for different sub-systems including black-start of generating units along with grid forming capability of inverter based generating station and VSC based HVDC black-start support **at least once a year** under intimation to the concerned SLDC and RLDC.

Accordingly, Mock Black Start of the following generating plants were conducted for the FY 2024-25:

Sl. No.	**Name of Power station**	**Date of Mock exercise**
1	AGBPS GTG 4	14-05-2024
2	Kopili Unit 1, 3 & 4	Completed (U I & III 09th March 25 & U II & IV 10th March 25)
3	AgGBPS GTG 2	11-09-2024

All utilities are requested to submit the latest status of planning related to mock black-start trials of ***all units*** that are pending or yet to be conducted and to complete these activities within FY 2024-25 to ensure compliance with IEGC.

Mock Black Start of the following generating plant are pending:

Sl. No.	Name of Power station	Last date of Mock exercise	Expected date of Mock exercise
1	Doyang HEP	12-05-2023	Unit II Completed on 04/04/2025.
2	Khangdong Stg-2 HEP	-	November-2025
3	Kameng HEP	-	November-2025
4	Loktak HEP	31-07-2023	May-2025
5	Pare HEP	10-01-2024	November-2025
6	Panyor HEP	30-05-2023	May-2025
7	Turial HEP	-	Completed on 08/04/2025.

In 226th OCCM, MS NERPC exhorted the concerned generating utilities to carry out the exercise as early as possible.

As per deliberation in 227th OCC meeting, As NERLDC informed that as per discussion held during the special meeting convened by NERPC on 10.05.2025 regarding the preparedness of islanding and black start capabilities, it was decided to carry out unannounced mock black start exercises for all generating stations equipped with black start facilities. In line with this decision, Loktak and Pare HEP have successfully carried out the unannounced mock black start exercises. However, AGBPS (Kathalguri) was unable to synchronize due to technical issues at the 220 kV Tinsukia substation. The necessary rectification at Tinsukia may be carried out by AEGCL, and the status should be duly communicated to NERPC and NERLDC.

NEEPCO stated that due issues related to online transfer of elements at Panyor HEP unannounced mock black start exercises may not conducted.

5.4 Performance of online network estimation tools at RLDC:

IEGC mandates RLDCs and SLDCs to utilize the network estimation tool integrated in their EMS and SCADA systems for the real time operational planning study. Also, performance of the online estimator tools shall be reviewed in monthly operational meetings as per IEGC Regulation 33(2). Quote:

"*SLDCs, RLDCs and NLDC shall utilize network estimation tool integrated in their EMS and SCADA systems for the real time operational planning study. All users shall make available at all times real time error free operational data for the successful execution of network analysis using EMS/SCADA. Failure to make available such data shall be immediately reported to the concerned SLDC, the concerned RLDC and NLDC along with a firm timeline for restoration. The performance of online network estimation tools at SLDC and RLDC shall be reviewed in the monthly operational meeting of RPC. Any telemetryrelated issues impacting the online network estimation tool shall be monitored by RPC for their early resolution.*"

Unquote:

The performance of online network estimation tools at NERLDC is shown below:

12-Sep-2025 09:44:27

Difference & % Error of RTCA and RTNET

Constituents	SCADA	RTCA		RTNET	
		Difference	Error %	Difference	Error %
NER Generation	2336	386	13.00	29	1.00
NER Load	2740	338	12.00	29	12.00
Tripura	223	85	35.00	85	35.00
Assam	1770	553	31.00	553	31.00
Meghalaya	244	29	12.00	29	12.00
Manipur	144	27	23.00	27	23.00
Arunachal	169	41	30.00	41	30.00
Nagaland	110	37	30.00	37	30.00
Mizoram	82	14	12.00	14	12.00

Similarly, SLDC's are requested to present their online network estimation tool performance in the monthly operational meeting of RPC to comply with IEGC regulation 33(2).

SLDC to update

5.5 Re-configuring RTUs of NEEPCO owned stations for reporting to NERLDC Guwahati

NERLDC Guwahati was inaugurated on 11th March 2024, following which NERLDC is operating under the Main-1 and Main-2 concept, with its establishments located in Shillong and Guwahati. At present, some NEEPCO stations report exclusively to NERLDC Shillong. In view of achieving 100% redundancy of Main-1 and Main-2 NERLDC, there is a critical need to reconfigure the RTUs to enable simultaneous reporting to NERLDC Guwahati.

On request, NEEPCO has configured all the stations for parallel except two stations which are mentioned as below along with the status of 32nd NETeST meeting:

1. **RC Nagar**: NEEPCO informed the forum that the Work order is already placed to M/s GE. However, the response from M/s GE is not statisfactory. NEEPCO further requested NERLDC to assist in configuration of the RTU database as similar way assistance was provided for Panyor HEP station.
2. **Pare HEP**: NEEPCO informed the forum that the RTU/PLC has been configured however due to configuration issue the data is not getting telemetered properly. NEEPCO requested that further configuration of RTU/PLC will be carried out during the lead hydro period i.e., Nov'25 – Dec'25 as the same RTU/PLC is being used to control the units which are running continuously.

NEEPCO is requested to provide an update on the current status of these actions.

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