AGENDA

FOR

231st OCC MEETING

Time: 10:30 Hrs.

Date: 10th October, 2025 (Friday)

Venue: Bongaigaon Thermal Power Plant, NTPC, Bongaigaon, Assam

Contents

NORTH EASTERN REGIONAL POWER COMMITTEE

AGENDA FOR 231ST OCC MEETING TO BE HELD ON 10.10.2025 (FRIDAY) AT 10:30 HRS

1. PART-A: CONFIRMATION OF MINUTES

1.1. Confirmation of Minutes of 230th Meeting of OCC Sub-Committee of NERPC

The minutes of 230th meeting of OCC Sub-committee held on 19.09.2025 at NERPC Conference Hall, Shillong were circulated vide letter No. NERPC/SE (O)/OCC/2025/ 2438-2480 dated 3rd October, 2025.

No comments were received from constituents

Sub-committee may confirm the minutes of 230th 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 19/09/2025)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong STG II	722.6	177.62	0.64	276
Kopili	606.05	73	4.74	15
Doyang	323.3	34	1.72	20
Loktak	768.35	215	2.47	87

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 November 2025 for discussion in OCC shutdown discussion meeting. Forum may deliberate upon the shutdown proposals.

AGENDA FROM NERLDC

2.2. Operational Performance and Grid discipline during September 2025:

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

2.3. Scope for Activation of Frequency Control Mode of HVDC BNC–Agra Link:

On 15th September 2025, the 400/220 kV switchyard at Balipara experienced flash flooding due to heavy rainfall and severe inundation of the Manshiri River as informed by Powergrid. The outage of the entire 400 kV switchyard could result in the isolated operation of the Gohpur area of the Assam Power System, along with the capital areas of the Arunachal Pradesh Power System.

In such a scenario, the only connectivity of these areas with the rest of the Indian Electricity Grid would be through the ±800 kV HVDC BNC–Agra link. Any load-generation mismatch in these isolated areas would need to be balanced through automatic changes in the power order of the HVDC link.

In this context, activation and exploration of the frequency control mode of the HVDC BNC–Agra link is essential. Furthermore, for a comprehensive study and assessment of the HVDC operating in frequency control mode, the dynamic model data of the HVDC system is crucial. The matter has already been discussed in earlier OCCM.

Therefore, it is once again requested that Powergrid share the scope of operating the HVDC BNC–Agra link in frequency control mode and provide the relevant dynamic model data of the HVDC system.
Members may discuss.

2.4. Flooding Issue in Balipara Substation:

On 15th September 2025, Powergrid informed that due to heavy rainfall and severe inundation of the Manshiri River, the water level at the 400/220 kV switchyard in Balipara rose up to the isolator MOM boxes and BMKs. This situation posed a significant risk of a complete shutdown of the switchyard, potentially compromising the safety and reliability of grid operations.

It was subsequently informed that, by the following day, the water level had receded due to timely measures taken by Powergrid.

Discussion Point:
Given the critical nature of substation operations, it is imperative to ensure robust flood protection mechanisms. Safety measures to prevent such incidents in the future are of utmost importance.

Action Requested:
Detailed system study has already been forwarded to Powergrid for operating the lines through tie bays for one and half breaker at 400kV Balipara switchyard. Feasibility for operating through tie bays may please be confirmed by Powergrid.
Powergrid is also requested to share the specific measures undertaken/ to be undertaken to mitigate flooding at the Balipara switchyard. This will help in identifying and implementing proactive actions in other substations to prevent similar occurrences.

Members please discuss.

2.5. Early commissioning of 2nd ckt of 132kV Loktak – Ningthoukhong:

As per the communication received from SLDC Manipur, the 132 kV Loktak – Ningthoukhong line has been experiencing frequent tripping incidents, primarily attributed to jumper snapping. Mail is attached as ***Annexure 1**. Most recently, the line tripped again on 25th September 2025 due to the same issue.

To mitigate further tripping, SLDC Manipur has requested to limit the line loading to below 55 MW. This can currently be managed by backing down generation from Loktak HEP. However, considering the high reservoir level and the consequent risk of underutilization of national hydro assets, commissioning of the second circuit of the 132 kV Loktak – Ningthoukhong line is of utmost importance to ensure reliability and optimal power evacuation.

MSPCL is kindly requested to expedite the stringing work and share the latest status of commissioning the 2nd circuit of the said line.

Additionally strengthening of jumper/double jumpering works may be done on priority basis for the said line to avoid backing down of Loktak Generation.

Further 132kV Jiribam – Rengpand is under outage since 17-11-2023, revival of 132kV Jiribam – Rengpang could reduce loading of 132kV Loktak – Ningthoukhong. The matter has already been discussed in earlier OCCM.

Members may discuss.

2.6. Regarding non-submission of Year Ahead Resource adequacy data for FY 2026-27

As per clause 3.2 of Section 3 of CEA, Guidelines for Resource Adequacy Planning Framework for India- June 2023: "NLDC shall annually publish a one-year look-ahead Short-term National Resource Adequacy Plan (ST-NRAP) which shall include parameters such as demand forecasts, resource availability based on under-construction status of new projects, planned maintenance schedules of existing stations, station-wise historic forced outage rates and decommissioning plans."

Further, as per Regulation 5.3 (d) of CERC India Electricity Grid Code Regulations, 2023, the concerned entities shall furnish the required data to NLDC every year for carrying out a national level simulation for generation

resource adequacy of states.

Accordingly, timely furnishing of data by all concerned entities is essential for preparation of the national level adequacy plan.

As per the "Procedure for Resource Adequacy and Operational Planning" (Annexure 3.1 of Operating Procedures of North Eastern Region -July 2025), the data for year ahead operational planning is to be submitted by following entities:

a) STUs/SLDCs or such other agency as may be designated by the State Commission
b) Interstate Transmission Licensees
c) Regional Entity Generating Stations and ISTS Connected Bulk Consumers

In view of the above, resource adequacy data was requested vide letter NERLDC/SO-1/SO/8242 dated 04/09/2025 (letter as ***Annexure 2**) and reminder letter NERLDC/SO-1/SO/8309 dated 25/09/2025 in the formats mentioned below from concerned entities:

Sl. No.	Data to be furnished	Format	Responsible entities
1	Electricity Demand Data	RA-1	STU/SLDC
2	Reserve Requirement	RA-2	STU/SLDC
3	Tie-Line Details	RA-3	STU/SLDC, ISTS
4	Transfer Capability	RA-4	STU/SLDC
5	Generation Data	RA-5	STU/SLDC, ISGS, CGS

The status of data submitted by entities is shown below:

Status of Year ahead Resource Adequacy Data Submission					
	RA-1	RA-2	RA-3	RA-4	RA-5
Arunachal Pradesh					
Assam					
Manipur					
Meghalaya					
Mizoram					
Nagaland					
Tripura					
Panyor	NA	NA	NA	NA	
Kameng					
Kopili					
Khandong					
Khandong Stg-2					
Pare					
AGBPS					
AGTPPP					
Doyang					
Loktak					
BGTPP					
OTPC					
Monarchak					
Tuirial					

Powergrid	NA	NA		NA	NA
ENICL					
MUML					
NBTL					
NTL					
KMTL					
NETC					

	Data Submitted
	Data not Submitted
NA	Not Applicable

It is requested to furnish the requisite data in the prescribed excel formats at the earliest, so that validation at NERLDC can be completed and the consolidated data can be forwarded to NLDC in time for the National Resource Adequacy Assessment for FY 2026-27. The formats are attached in *__Annexure 3__.

2.7. Frequency Response Performance for the reportable events of month of September 2025

S.No	**Event Date**	**Time**	**Event Description**	**Starting Frequency**	**Nadir Frequency (in Hz)**	**End Frequency (in Hz)**	***Δf***	**NER FRP during the event**

				(in Hz)				
1	01-Sep-2025	14:57	Load loss event of 1240 MW in Delhi, NR	49.954	50.074	50.005	0.12	0.2(Poor)
2	24-Sep-2025	11:04	RE generation loss event of 2500 MW in Tamil Nadu, SR	50.054	49.892	49.954	-0.100	1.01(Excellent)
3	24-Sep-2025	11:32	RE generation loss event of 1400 MW in Tamil Nadu, SR	50.057	49.930	49.975	-0.082	1.08(Excellent)

Frequency Response Performance (FRP) of generating stations for each reportable event are calculated based on the submitted high resolution data from generating stations. However, the generating stations for which data is not received, FRC/FRP as per NERLDC HDR data is used for computation of Average Monthly Frequency Response Performance, Beta 'β' for Generating

Stations.

FRP values as considered (as per NERLDC HDR data/ generator high resolution data) for the event of September 2025 is as follows:

Frequency Response Performance				
S.No	Control Area	01-09-2025	24-09-2025 (11:04 hrs)	24-09-2025 (11:32 hrs)
1	Arunachal Pradesh	1.03	-2.6	2.03
2	Assam	-2.94	0.98	1.44
3	Manipur	Not Applicable	Not Applicable	Not Applicable
4	Meghalaya	6.3	-0.83	0.77
5	Mizoram	-4.57	0.23	-0.51
6	Nagaland	0.42	0.46	0.08
7	Tripura	-0.86	0.10	-0.24
8	Assam GBPS	Not Applicable	Not Applicable	Not Applicable
9	Agartala GBPS	Not Applicable	Not Applicable	Not Applicable
10	Bongaigaon TPP	3.10	1.37	2.09
11	Doyang HPS	0.52	0.17	0.12
12	Kameng HPS	0.02(FGMO Off)	0.25(FGMO off)	-0.10(FGMO off)
13	Panyor HPS	0.36	1.51	1.79
14	OTPC, Palatana	-0.57	1.30	0.90
15	Pare HPS	0.59	0.40	0.24
16	Kopili HPS	3.65	0.99	5.83
17	Khandong HPS	Not Applicable	Not Applicable	Not Applicable
18	Khandong Stg-2 HPS	Not Applicable	Not Applicable	Not Applicable
19	Loktak HPS	0.00	-0.26	0.78

From the FRP data, it has been observed that the Frequency Response Performance (FRP) of many control areas is not satisfactory. It is therefore requested to review the FRC/FRP and governor action of your respective control area, and take the necessary corrective measures to improve the Frequency Response Characteristic (FRC) / Frequency Response Performance (FRP).

2.8. Methodologies for calculation of Frequency Response Obligation (FRO) of intrastate entities by SLDC, as deliberated in 53th FOLD meeting:

Background:

As per CERC (IEGC) Regulations, 2023, 'Frequency Response Obligation' or 'FRO' means the minimum frequency response a control area has to provide in the event of any frequency deviation;

Annexure-2 of CERC (IEGC) Regulations, 2023 provides the procedure for calculation of frequency response obligation (FRO) of each control area as quoted below:

Quote

The minimum Frequency Response Obligation (FRO) of each control area in MW/Hz shall be calculated as:

*FRO = (Control Area average Demand + Control Area average Generation) * minimum all India Target Frequency Response Characteristic/ (Sum of peak or average demand of all control areas + Sum of average generation of all control areas)*

Provided FRO shall be nil in case of a control area not having any generation resources, such as Goa, DD, DNH etc.

Unquote

In compliance with Reg. 30 (10) (f) of CERC (IEGC) Regulations, 2023, NLDC assesses FRO of regional entity generating stations and state control areas as per Annexure-2, giving due consideration to generation and load within each control area. Likewise, the SLDCs may assess and publish the FRO for the intrastate entities within its jurisdiction.

The matter has already been discussed in earlier OCCM.

During the 48th FOLD meeting held on 21st August 2024, and the 53rd FOLD meeting held on 9th September 2025, five potential methodologies for distributing the Frequency Response Obligation (FRO) allocated to a state control area among its intra-state entities—including generating stations and loads—were presented. These methodologies consider implementation both with and without requiring amendments to the Indian Electricity Grid Code (IEGC), 2023. The potential methodologies are given below:

Method I:

$$FRO = \left(\frac{Average\ Generation\ of\ individual\ generation\ station}{\text{Sum of Avg. generation of all considered generating stations}}\right) X \textbf{ FRO allotted to state control are}$$

- Method-I simply distributes FRO allotted to a state control area among its intra-state generating stations. These generating stations can be identified in accordance with Table4 of IEGC, 2023.

Method II:

$$FRO = \left(\frac{Average\ Generation\ of\ individual\ generation\ station}{Sum\ of\ Avg.Generation\ of\ all\ considered\ generating\ stations + \ Average\ Demand\ of\ State\ Control\ Area}\right) X \textbf{ FRO allotted to state control area}$$

Method III:

$$FRO = \left(\frac{Average\ Generation\ of\ individual\ generation\ station}{Sum\ of\ Avg.Generation\ of\ all\ considered\ generating\ stations - Demand\ Response(4\%\ of\ Avg.Demand\ per\ Hz} \right) X$$ **FRO allotted to state control area**

- Method-II & Method-III accommodates demand response while distributing FRO allotted to a state control area among its internal generating stations and load entities.

Method IV:

$$FRO = \left(\frac{Average\ Generation\ of\ individual\ generation\ station}{\text{Sum of Avg. generation and Avg. Demand of all control areas}} \right) X$$ **Minimum All India Target FRC**

- Method-IV utilizes the formula provided in the IEGC, 2023. In this approach, the FRO for intra-state generating stations is allocated from the All-India minimum target FRC, based on the proportion of their average generation relative to the total average generation and average demand across India.

Method V:

$$FRO = \left(\frac{Average\ Generation\ of\ individual\ generation\ station}{\text{Sum of Avg. generation of all considered generating stations (ISGS + Intra SGS)}} \right) X$$ **Minimum All India Target FRC**

- Method-V entails amendment in current provisions of IEGC, 2023 related to assessment of FRO. All India minimum target FRC would be expected to be achieved by generating stations only.

- Summation of FROs allotted to Intra-state generating stations within a state control area shall constitute FRO of that state control area
- SLDCs shall be responsible for assessment and monitoring of FRO of Intra-state generating stations and thereby FRO of state control area

Members may like to share updates and deliberate on following:

a) Methodology adopted by SLDCs for assigning FRO to intrastate entities

b) Assessment of frequency response performance and its verification

2.9. Delay in restoration of line out due to Tower collapse within the timeline specified in the regulation

As per CEA (Grid Standards) Regulations,2010 each transmission licensee must maintain an Emergency Restoration System(ERS) to minimize the outage time for 400kV and above transmission lines and strategic 220kV lines in case of tower collapse/failure and must analyse tower collapses and submit the report to RPC and CEA. The letter from NLDC regarding "Delay in restoration of line out due to Tower collapse within the timeline specified in the regulation" is attached as ***Annexure 4** for reference.

CERC (Standards of Performance of inter-State Transmission Licensees) Regulations,2012 prescribe restoration timelines as per below:

Type of Failure	Restoration time
Tower Collapse-Restoration by Emergency Restoration system	12 days
Tower Collapse-Plain Terrain	30 days
Tower Collapse-Hilly terrain and riverbed	50 days

The details of tower collapse in NER region are as listed below:

Sl. No	Line	Outage Date	Revival Date	No. of Days still under outage as on 03-Oct-2025	Remarks
1	132kV Panchgram-Srikona	14-01-2019	Still Under Outage	2454	Tower Collapse
2	132kV Lekhi-Nirjuli	28-06-2022		1194	Tower Collapse in tower no 12 near Lekhi
3	132kV Pare-Lekhi	28-06-2022		1194	Tower Collapse in tower no 12 near Lekhi
4	132kV Roing-Tezu	31-03-2024		554	Tower Collapse at tower no 72
5	132kV Lekhi Chimpu	30-05-2025		130	Tower 5 on verge of collapse

Utilities are requested to take following actions and submit action plan to RLDC/RPC for all the cases of line outages due to tower collapse.

1. Prepare firm restoration schedule with committed timelines in line with the regulatory provisions and submit monthly progress reports until normalization.
2. Adhere to compliance requirements for tower collapse cases and submit failure analysis report to RPC and CEA.
3. Commence immediate restoration activities for all outstanding tower collapse cases. The action plan along with along with restoration schedule to be submitted immediately. The tower collapse cases that

have exceeded the restorations timelines may be analyzed and reason for delay to be submitted to RLDC.

2.10. Implementation of OTP based login and restriction of GNA requisition based on the contract wise DC by IPP/Merchant plant in WBES from 12:00 Hrs of 07.10.2025

Currently, all users can log in to WBES using a password only from whitelisted IP addresses. After the recent changes, users will be able to log in to WBES using both a password and an OTP sent to their registered email ID and mobile number. A training session on this new login process was conducted for all users on 15th and 16th September 2025.

For IPP/Merchant Power Plants, if the quantum is scheduled through GNA, the Beneficiary's requisition shall be restricted to the Declared Capacity (DC) submitted by the power station against their contracted quantum as provided in WBES.

Currently, the contract-wise DC is prefilled by default and is equal to the contracted quantum in WBES. After the implementation of the new changes, the default prefilled contract-wise DC for each contract will be set to zero. Power plants will be required to manually enter the DC against each contract; only then will the corresponding Beneficiary be able to submit a requisition. A training session on this change was conducted on 25th September 2025 for all IPP/Merchant Generators.

For information of all the members please

2.11. Implementation of IP Whitelisting for Public-Facing Applications at NERLDC:

As seen in the recent past, cyber-attacks on public websites are increasing very rapidly. A substantial number of malicious cyber intrusion attempts have been observed in GRID-INDIA periphery. These activities are indicative of malicious intent and underscore the urgency to implement stricter access control measures.

As an immediate mitigation step to minimize the risk of unauthorized access

and potential cyber threats, Grid India Corporate Centre has advised NERLDC to enforce IP whitelisting for all its public-facing applications to ensure that only trusted and verified users are able to access these platforms.

Accordingly, all SLDCs and other relevant stakeholders are requested to submit the list of static IP addresses through which they access the following applications hosted by NERLDC:

1. Outage Portal
2. Reporting Portal
3. Tripping Portal

Kindly note that the IP addresses provided must be static and belong to the dedicated ISP (internet service provider) of the SLDC/ stakeholder. Any IP address which belongs to public service provider (like airtel or Jio or any other) will not suffice this requirement as they do not offer the necessary security or reliability for whitelisting in critical infrastructure systems.

Agenda from NTPC

2.12. Requirement of full schedule at least for 2 hrs (Two Hours) on continuous basis for carrying out soot Blowing activity to avoid such tripping.

Indian Coal has very high quantity of Ash content, varying from 40% to 50% of coal weight. This results in slag formation and deposition of same on Boiler tube. This slag is needed to be removed on regular basis with the help of Soot Blowing. If the soot blowing is not done on regular basis this slag formation increases and falls by its own weight. This fall of slag may disturb furnace flame and cause unit tripping on Flame failure.

Boiler#2 has tripped twice recently (on 24th Sept & 29th Sept) on flame failure due to this ash lumps.

Soot blowing can be done only when unit load is full for minimum two hours on continuous basis.

But nowadays NTPC Bongaigaon is getting technical minimum or below schedule in almost all-time blocks. Since we are not getting full schedule on continuous basis for two hours in a day we are unable to carry out Soot Blowing and this may cause unit tripping on flame failure as explained above.

Request:

It is our earnest request to provide us full schedule at least for 2 hrs (Two Hours) on continuous basis for carrying out soot Blowing activity to avoid such tripping.

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. In the 230th OCCM, Mizoram updated that the data was not getting downloaded to the Laptop with Vinplus software. Forum requested Mizoram to contact LnT and PGCIL. Mizoram to take DCD to nearest POWERGRID S/S. 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:

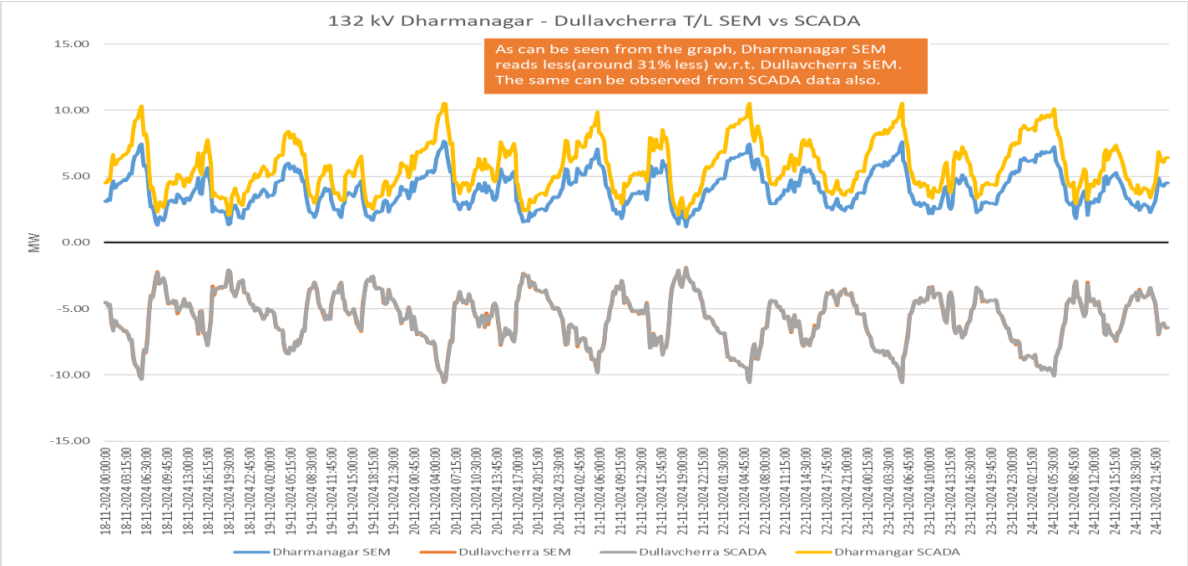
It has been observed that the data received from Dharmanagar end is erroneous and the same neither matches with SCADA data nor with data from Dullavcherra end. Several follow ups have been initiated regarding the matter with utility, however, matter is yet to be resolved.

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 230th OCCM, Manipur stated that the Laptop Procurement is still in progress and the same will take another month. Forum requested Manipur to expedite the request and provide data to NERLDC at the earliest. 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 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

Deliberation of 230th OCCM

Tripura representative was absent. NERLDC briefed the agenda item and also highlighted that the reserve requirement is determined based on the Area Control Error (ACE), which is derived from the deviation from schedule of the state. A higher deviation leads to a higher reserve requirement, which the state must maintain to support frequency control.

After detail deliberation, Forum warned Tripura to refrain from such practice of persistent overdrawl during low frequency scenario, overlooking the instructions issued by Grid India(NERLDC) control room, which may jeopardise the grid.

It was also advised to Tripura to carry out the resource adequacy planning in advance and minimize dependency on DAM/RTM.

Forum may discuss

4.2 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.

Deliberation of 230th OCCM

The Forum advised SLDC **Tripura** to refrain from violations of the provisions of the IEGC and follow the FTC procedure for safety, security, and reliability of the grid.

Further, the Forum directed SLDC Tripura to furnish all First Time Charging (FTC) **related documents** as well as the protection settings of the charged elements to **NERLDC** and **NERPC** respectively, at the earliest, without any delay.

MS NERPC stated that a letter will be written from NERPC secretariat to MD, TSECL highlighting the issue and also the matter will be raised in the upcoming NERPC meeting.

Forum may discuss

4.3 Status Update on Reliability Issues Discussed in 230th 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 earlier OCC meeting	Present status
1	Delay in Commissioning of 400 kV Transfer Bus at Kameng HEP	NEEPCO	228th OCCM: 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	

Sl. No	Agenda	Owner	Deliberation in earlier OCC meeting	Present status
			proposed by NEEPCO and the work will start shortly. Further he informed that the work will tentatively be completed by March'26. 230th OCCM: Work in progress, target date remains same	
2	Early Restoration of Phase-B Isolator of 400 kV Balipara–Kameng–1 Line at 400kV Kameng Bus	NEEPCO	228th OCCM: 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.	
3	Operation of 400 kV Switchyard on Single Bus mode since	NEEPCO	230th OCCM: NEEPCO informed that the work is expected to be completed by Dec'25.	

Sl. No	Agenda	Owner	Deliberation in earlier OCC meeting	Present status
	commissioning at Panyor Lower HEP (PLHEP)			
4	Urgent Review of Online Element Transfer at 132 kV PLHPS	NEEPCO	228th OCCM: NEEPCO informed that budgetary offer has not been received yet; tentative completion target is June'26. 230th OCCM: Done for two lines, for the rest, to be done by June'26	

Present status may be provided.

4.4 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

Deliberation

MS NERPC asked the concerned utilities to provide updates through mail to NERPC.

4.5 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

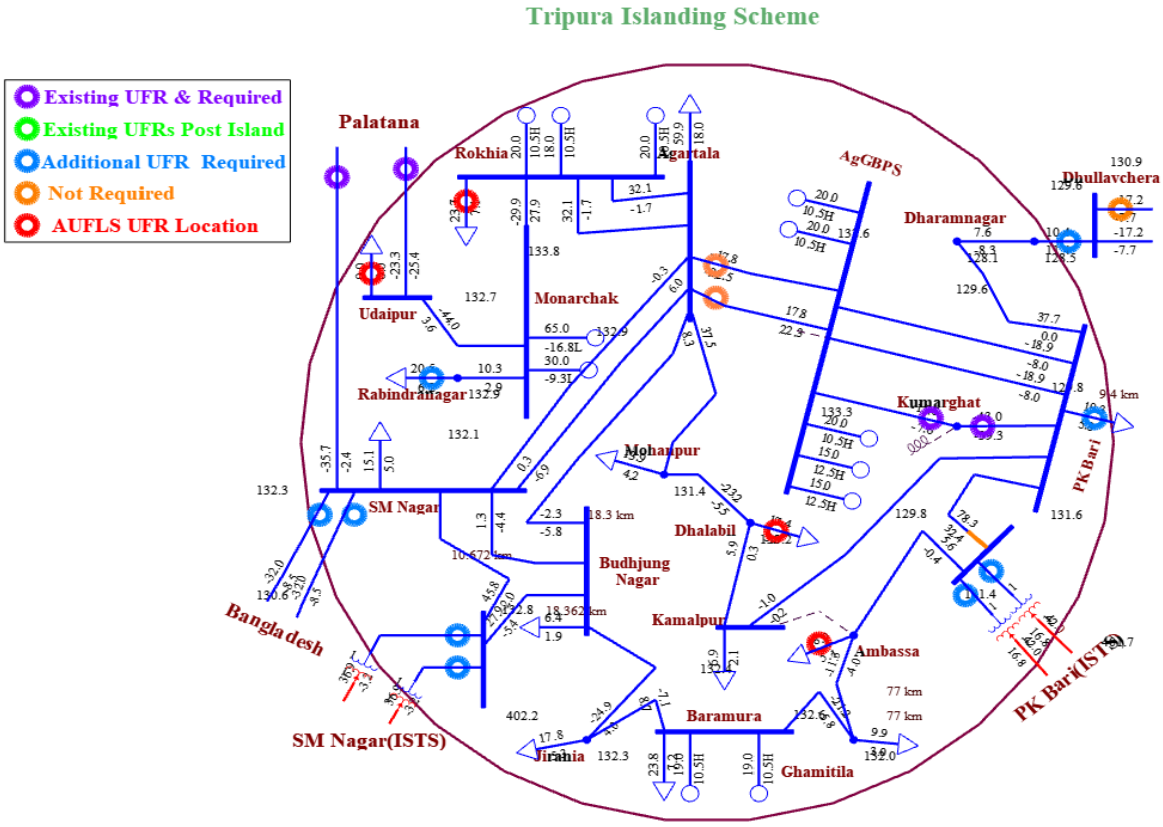
the Islanding schemes which are being planned/have been implemented in NER are mentioned below, along with the updates from 227th OCCM.

A. Guwahati Islanding Scheme

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

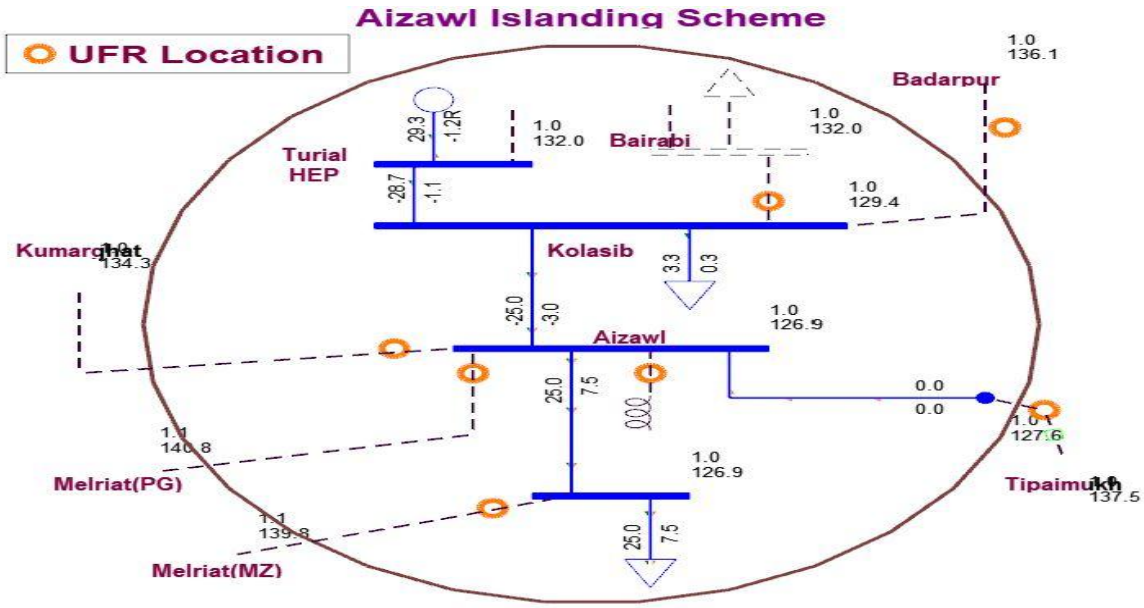
B. Tripura/Agartala Islanding Scheme

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. Aizawl Islanding scheme

Under implementation.



D. Meghalaya/Shillong Islanding Scheme

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 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
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

Utilities may further update

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

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 further update

4.7 Monthly Review of LGBR

PARTICULARS (Peak Demand in MW as per LGBR vs Actual)	July-25 (LGBR)	July-25 (Actual)	Aug-25 (LGBR)	Aug-25 (Actual)	Sep-25 (LGBR)	Sep-25 (Actual)
Arunachal Pradesh	204	223	214	221	212	
Assam	2787	2805	2835	2582	3082	
Manipur	229	233	261	233	265	
Meghalaya	401	337	384	350	349	
Mizoram	141	136	164	144	162	
Nagaland	205	193	203	190	201	
Tripura (exc. Bangladesh)	394	374	381	362	409	
NER DEMAND (exc. Bangladesh)	4158	4088	4265	3922	4396	

PARTICULARS	July-25 (LGBR)	July-25 (Actual)	Aug-25 (LGBR)	Aug-25 (Actual)	Sep-25 (LGBR)	Sep-25 (Actual)

(Energy Requirement in MU as per LGBR vs Actual)						
Arunachal Pradesh	99	117.94	111	115.59	103	
Assam	1543	1530.04	1521	1439.45	1562	
Manipur	91	99.54	85	94.72	89	
Meghalaya	191	166.64	190	169.41	166	
Mizoram	65	62.73	59	63.09	62	
Nagaland	105	97.17	92	94.56	94	
Tripura (excl. Bangladesh)	205	185.41	237	180.54	196	
NER DEMAND (exc. Bangladesh)	2300	2260	2294	2158	2272	

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

PARTICULARS (Peak Demand in MW as per LGBR)	Oct-25 (MW)	Oct-25 (MU)	Nov-25 (MW)	Nov-25 (MU)	Dec-25 (MW)	Dec-25 (MU)
Arunachal Pradesh	199	102	199	94	204	104
Assam	2972	1355	2176	1056	2076	1002
Manipur	250	115	280	106	318	131
Meghalaya	424	259	479	263	507	281
Mizoram	163	77	176	81	185	89
Nagaland	205	100	206	82	206	90
Tripura (exc. Bangladesh)	390	199	345	159	294	138
NER DEMAND (exc. Bangladesh)	4386	2207	3624	1841	3634	1836

Forum may discuss

4.8 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

Utilities may update

4.9 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	Unit II-04.04.2025	To be performed during lean hydro season
2	Khangdong Stg-2 HEP	-	November-2025
3	Kameng HEP	-	November-2025
4	Loktak HEP	Unit I -15.05.2025	To be performed during lean hydro season
5	Pare HEP	Unit-II-17.05.2025	To be performed during lean hydro season
6	Panyor HEP	30-05-2023	May-2025
7	Turial HEP	Unit II- 22.07.2025 Unit I- 23.07.2025	To be performed in FY 2026-27

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.

Utilities may update

4.10 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:

03-Oct-2025 16:06:22

Difference & % Error of RTCA and RTNET

Constituents	SCADA	RTCA		RTNET	
		Difference	Error %	Difference	Error %
NER Generation	2538	386	13.00	29	1.00
NER Load	2760	338	12.00	29	12.00
Tripura	241	85	35.00	85	35.00
Assam	1710	553	31.00	553	31.00
Meghalaya	243	29	12.00	29	12.00
Manipur	162	27	23.00	27	23.00
Arunachal	140	41	30.00	41	30.00
Nagaland	154	37	30.00	37	30.00
Mizoram	111	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.

4.11 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 satisfactory. 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.

Utilities may update

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