AGENDA

FOR

232nd OCC MEETING

Time: 10:30 Hrs.

Date: 7th November, 2025 (Friday)

Venue: NERLDC Conference Hall, Guwahati

Contents

NORTH EASTERN REGIONAL POWER COMMITTEE

AGENDA FOR 232ND OCC MEETING TO BE HELD ON 07.11.2025 (FRIDAY) AT 10:30 HRS

1. PART-A: CONFIRMATION OF MINUTES

1.1. Confirmation of Minutes of 231st Meeting of OCC Sub-Committee of NERPC

The minutes of 231st meeting of OCC Sub-committee held on 10.10.2025 at BgTPP, NTPC, Bongaigaon were circulated vide letter No. NERPC/SE (O)/OCC/2025/ 419-461 dated 24th October, 2025.

No comments were received from constituents

Sub-committee may confirm the minutes of 231st 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 December 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 October 2025:

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

2.3. Status of Bay upgradation at Loktak HEP

The 132 kV Loktak–Jiribam line has been reconductored with an ampacity of 600 A, and the 132 kV Loktak–Imphal (PG) line has been reconductored with an ampacity of 800 A by PGCIL. However, the bay upgradation at Loktak has not yet been carried out.

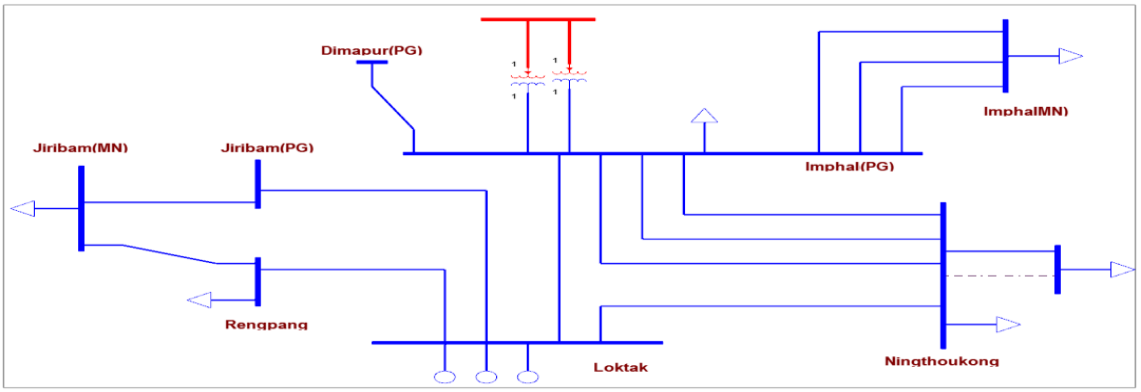


Figure-1: Evacuation Path for Loktak HEP

As a result, the effective transfer capability of the line is restricted by the existing bay equipment at Loktak, which can handle only about 75 MW. This restriction leads to generation backdown at Loktak HEP during the outage of any transmission line connected to it, as the 132 kV Rengpang-Jiribam(MN) line is under outage condition since 17.11.2023.

Evacuation Path of Loktak HEP:

- 132 kV Loktak-Imphal(PG)
- 132 kV Loktak-Jiribam(PG)
- 132 kV Loktak-Ningthoukong
- 132 kV Loktak-Rengpang line,132 kV Rengpang-Jiribam(MN)line is under outage condition since 17.11.2023

Therefore, bay upgradation for 132 kV Loktak–Jiribam line and 132 kV Loktak–Imphal line at Loktak is an urgent requirement and needs to be undertaken at the earliest for mitigating constraint at Loktak HEP. In this regard, Powergrid and NHPC is requested to update the status of bay upgradation work at Loktak end.

2.4. Submission of Healthiness Status of Under Frequency Relays (UFRs)

As you are aware, the North Eastern Region (NER) grid has three active Islading scheme i.e. Itanagar, Aizawl and Upper Assam Islanding scheme and all state have active automatic under-frequency load shedding (AUFLS) scheme which are critical for maintaining grid stability during contingencies. These schemes are primarily based on the operation of Under Frequency Relays (UFRs).

For the successful operation of the islanding schemes and protection scheme, it is imperative that the designated UFRs are in a healthy condition and functioning correctly. In this regard, all utilities are kindly requested to submit the healthiness status of their respective UFRs, based on recent tests conducted to assess their performance. Please ensure the following while submitting report to NERPC and NERLDC:

- Clearly indicate the location and identification of each UFR.
- Mention the date and methodology of the last healthiness test.
- Include test results and any corrective actions taken (if applicable)

As per deliberation of 227th OCC meeting, Forum has advised NERLDC to prepare a testing calendar for UFR testing, which may be jointly witnessed by NERPC and NERLDC. In this regard a Google sheet with link below has been shared with all constituents on 16th June 2025.

https://docs.google.com/spreadsheets/d/1HeaQlbbFOaWsE0sElm_JKG2T5h4oIZwVlK67dICZmPc/edit?gid=1939252534#gid=1939252534

All are requested to once again share the plan and update in the share google sheet.

2.5. Periodic Testing of Power System Elements and Submission of Simulation Model Data as per IEGC 2023

As per IEGC 2023 Clause 40 (1), periodic testing of all the power system elements shall be carried out by the equipment owners for ascertaining the correctness of mathematical models used for simulation studies as well as ensuring desired performance during an event in the system.

These tests must be conducted once every five (5) years or after major retrofits by the equipment owners. The owners shall also submit a testing plan for the next year to the concerned RPC by 31st October to ensure proper coordination during testing. This matter also stands discussed in various earlies OCC meetings.

In this context, all utilities are hereby requested to update and submit their periodic testing plans at the earliest via the link provided below and through email to both NERPC and NERLDC.

https://docs.google.com/spreadsheets/d/14BlwKwh6mSM7BifMU8uuIAxHRDj1TT348KyTB3pVTx4/edit?pli=1&gid=0#gid=0

2.6. 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 -I 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-II 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.

In 231st OCCM of NER, Member Secretary, NERPC instructed Tripura to refrain from such practices in future and provide all the FTC related data to NERPC and NERLDC for the
already charged elements within one week.
SLDC Tripura may updated on the status of submission of FTC documents as advised in 231st OCCM.

2.7. 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

It has been observed that Demand estimation and RA data is not being submitted regularly/ in prescribed format for month of October 2025. The status of submission is shown in the table below:

	Day-Ahead Demand Forecast	Week Ahead Demand Forecast (October 2025)					Month Ahead Demand Forecast		Year Ahead Demand Forecast for 2026-27
		Week 1	Week 2	Week 3	Week 4	Week 5	Oct-25	Nov-25	
Arunachal Pradesh									
Assam									
Manipur									
Meghalaya									
Mizoram									
Nagaland									
Tripura									

Not in prescribed format	Data not submitted	Data Submitted	Irregular

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.

Further as per the Report of honourable Member (Technical), CERC in order on Suo-motu petition No. 09/SM/2024, the issues of non-submission of resource adequacy data including demand estimation and generation data by the states to be deliberated.

2.8. Operational Planning and Resource Adequacy for December 2025 and upcoming winter session

The Operational Planning and Resource Adequacy assessment for December 2025 is attached 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.

Further the energy requirement and shortfall for previous FY 2024-25 during the winter season is shown in Table 1 and Table 2 below:

	Table 1: Energy requirement (MU)					
	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25
Arunachal Pradesh	78.4	87.8	94.7	94.3	94.5	86.4
Assam	886.3	824.5	852.5	795.1	945.7	1012.3
Manipur	79.0	112.3	114.3	93.3	90.4	86.1

Meghalaya	185.4	200.9	204.3	155.3	172.4	164.1
Mizoram	56.3	68.8	70.0	60.4	62.7	59.7
Nagaland	72.2	78.7	74.5	69.8	73.1	75.5
Tripura including Bangladesh	170.6	194.8	166.8	161.8	201.0	194.6

	Table 2: Energy Shortfall					
	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.18	0.00	0.00	0.01	0.04	0.00
Manipur	0.00	0.00	0.00	4.32	5.54	2.20
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00
Tripura including Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00

Table-1 and Table-2 suggest that historically, Manipur may face shortage during the upcoming winter. In view of the above, all the states are requested to meticulously plan the power procurement in advance.

2.9. Frequent Forced Outages of Kameng Units during August–October 2025

During the months of August, September, and October 2025, the Kameng generating units have experienced multiple forced outages. The detailed record of these outages is shown in table below:

Sl No.	Element	Outage Date	Outage Time	Outage Type	Reason	Revival Date	Revival Time
1	Kameng HEP - UNIT 1	21-Sep-25	00:01:00	EMERGENCY	Rectification of DC earth fault at 220V DCDB	21-09-	04:01

Sl No.	Element	Outage Date	Outage Time	Outage Type	Reason	Revival Date	Revival Time
						2025	
2	KAMENG HEP - UNIT 1	14-Sep-25	23:10:00	EMERGENCY	Unit 2 rotor testing	14-09-2025	23:55
3	KAMENG HEP - UNIT 2	30-Sep-25	16:46:00	EMERGENCY	unit#2 TGB vibration is fluctuating abnormally in both directions	Still out	
4	KAMENG HEP - UNIT 2	28-Sep-25	08:05:00	EMERGENCY	Increase in TGB Vibration at both X & Y axis and also increase in temperature in TGB	28-09-2025	16:31
5	Kameng HEP - UNIT 2	06-Sep-25	23:36	Fault Tripped	Rotor Earth Fault	25-09-2025	14:41
6	KAMENG HEP - UNIT 2	03-Aug-25	11:41:00	EMERGENCY	High EHT (electro hydraulic transducer) pressure of Governor	03-08-2025	13:31

Sl No.	Element	Outage Date	Outage Time	Outage Type	Reason	Revival Date	Revival Time
7	KAMENG HEP - UNIT 3	14-Oct-25	12:08:00	EMERGENCY	high Vibration in UGB of Unit#3	14-10-2025	12:51
8	Kameng HEP - UNIT 3	21-Sep-25	00:10:00	EMERGENCY	Rectification of DC earth fault at 220V DCDB	21-09-2025	04:16
9	KAMENG HEP - UNIT 3	14-Sep-25	23:21:00	EMERGENCY	Unit 2 rotor testing	14-09-2025	23:49
10	KAMENG HEP - UNIT 3	01-Aug-25	08:05:00	EMERGENCY	Water leakage from turbine shaft seal area	01-08-2025	20:14
11	Kameng HEP - UNIT 4	21-Sep-25	00:06:00	EMERGENCY	Rectification of DC earth fault at 220V DCDB	21-09-2025	04:28
12	KAMENG HEP - UNIT 4	14-Sep-25	23:06:00	EMERGENCY	Unit 2 rotor testing	15-09-2025	00:03
13	Kameng HEP - UNIT 4	10-Sep-25	09:24	Fault Tripped	Mechanical Overspeed	10-09-2025	12:57

Sl No.	Element	Outage Date	Outage Time	Outage Type	Reason	Revival Date	Revival Time
14	KAMENG HEP - UNIT 4	02-Sep-25	22:06:00	EMERGENCY	Unit#4 TGB vibration at Y-Axis has reached above its permissible limit.	02-09-2025	23:27
15	KAMENG HEP - UNIT 4	30-Aug-25	02:14:00	EMERGENCY	due to high TGB vibration	31-08-2025	23:07
16	KAMENG HEP - UNIT 4	24-Aug-25	17:36:00	EMERGENCY	TGB vibration is above the permissible limit	25-08-2025	05:26

It is further observed that the emergency outage of Kameng Unit–2 has been extended up to 31st October 2025, resulting in reduced generation availability from the station.

In view of the above multiple outages, NEEPCO is requested to look into the matter and take necessary actions to prevent such unwarranted outages. A letter to Kameng HEP, NEEPCO is also sent from NERLDC requesting for necessary action vide: उपूक्षेभाप्रेके /एस.ओ-1 /एस.ओ /8424 (NERLDC/S.O-1/SO/ 8424) dated 23.10.2025. The letter is attached as **Annexure III**.

2.10. Streamlining Shutdown (SD) Punching Process and Minimizing Last-Minute Changes

It has been observed that numerous changes and errors are occurring during the punching of shutdowns (SDs). Utilities are frequently requesting changes in shutdown dates at the last moment, which is operationally difficult to accommodate. Each such correction requires providing VPN access and manual intervention leading to unnecessary delays and coordination issues. Moreover, frequent use of VPN is not desirable and is under scrutiny due to cybersecurity issues.

Therefore, it is requested to all utilities that before punching any shutdown or before availing shutdowns (particularly in D-3), all issues, discrepancies, or requirements must be discussed and resolved in advance. Once the shutdown is punched, changes at a later stage will not be entertained.

2.11. Fixed Window for Punching of OCC-Approved Shutdowns

It has been observed that some utilities are punching OCC-approved shutdowns after considerable delay even beyond the scheduled period. Late punching of shutdowns affects the timely conduct of necessary operational and system studies leading to coordination difficulties.

The window for punching of OCC-approved shutdowns shall remain open only from the 1st to the 3rd of every (M-1) month for the next month's OCC-approved shutdowns.

Any shutdown punched after the closing date (3rd of M-1 month) will not be entertained, as necessary planning and studies require adequate time.

OCC forum is requested to advise all utilities to strictly adhere to the defined punching window to ensure timely completion of study and approval processes.

2.12. 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:

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

• 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:

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

- 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:

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

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:

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

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

As per deliberation in the 231th OCC meeting held on 10.10.2025, (Item No. 2.8) regarding the "Methodologies for Calculation of Frequency Response Obligation (FRO) of Intrastate Entities by SLDC", a handholding online session on the above subject was conducted on 17th October 2025 at 11:00 hrs which was presided over by Member Secretary, NERPC and Head of the NERLDC.

During the meeting it was decided that states will review the various methods for apportioning State FRO to intrastate entities and declare the method adopted by each state in the 232nd OCC Meeting.

Members may discuss.

Agenda from Powergrid

2.13. Upgradation of existing Reactive compensation at 400KV Bongaigaon Substation & 400KV Balipara Substation of POWERGRID under North Eastern Regional Expansion Scheme-XXII & XXVI Schemes.

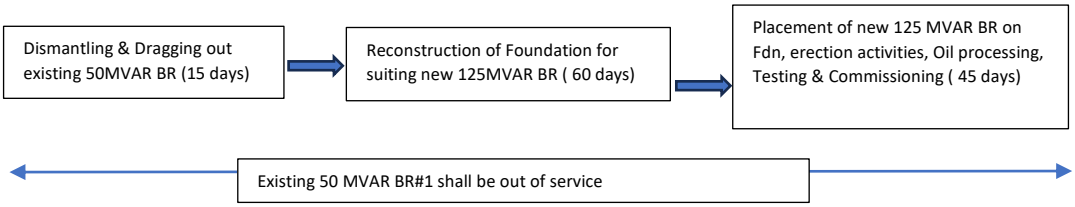
The following modification/ upgradation is envisaged at POWERGRID 400KV Bongaigaon Substation and 400KV Balipara Substation under relevant North Eastern Regional Expansion Schemes:

S/No	Project	Activity Description
1	North Eastern Regional Expansion Scheme XXII **(Bongaigaon S/s)**	Decommissioning of old 2x50 MVAr Bus Reactors & installation of 1x125 MVAR Bus Reactor. One of the existing 2x80 MVAr Bus Reactors (presently installed in parallel in same bay) may be installed at Bongaigaon S/s in other vacated bay after decommissioning of the above 2x50 MVAr Bus Reactor
2	North Eastern Regional Expansion Scheme XXVI **(Balipara S/s)**	Decommissioning of old 50 MVAr Bus Reactor & installation of 1x125 MVAR Bus Reactor.

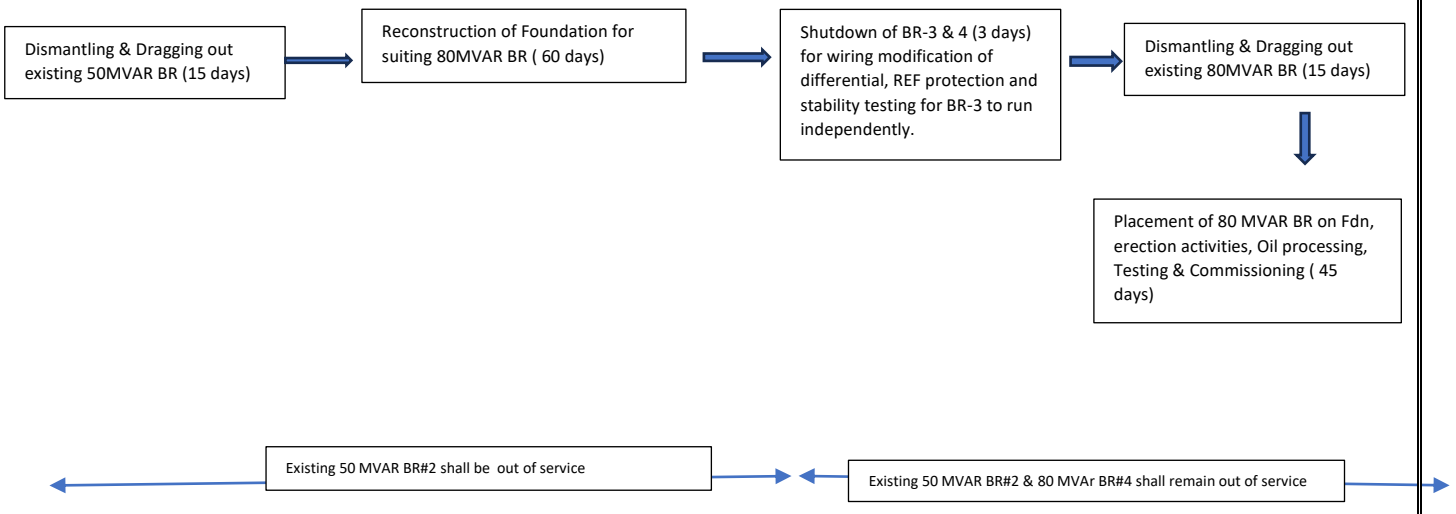
The Reactor packages for the above schemes have already been awarded by POWERGRID. The physical works at site are envisaged for commencement w.e.f. November'2025. The works shall involve dismantling & dragging out of existing Bus Reactors followed by modification/re-construction of existing Foundations as per new design requirements, installation of new 125 MVAR Bus Reactor in its place and testing & commissioning activities in sequence. The indicative plan for implementation of the scheme is as follows:

Bongaigaon

A. <u>Decommissioning of 50 MVAR#1 & Replacement with new 125 MVAr BR</u>

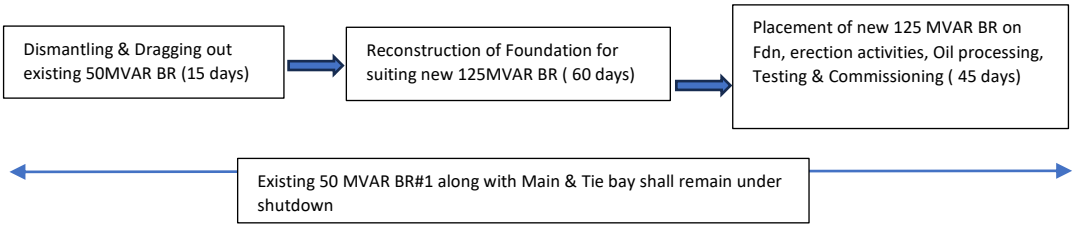


B. <u>Decommissioning of 50 MVAR BR#2 , shifting of existing 80 MVAR BR#4(presently positioned parallel to 80MVAR BR#3) & installation at position of 50 MVAr BR#2 (This shall be taken up after completion of (A)</u>



<u>Balipara</u>

A. <u>Decommissioning of 50 MVAR#1 & Replacement with new 125 MVAr BR</u>



POWERGRID shall accordingly propose the shutdown in the above sequence after ensuring site readiness, 15 days in advance to NERLDC/ NERPC for approval.

2.14. REQUIREMENT OF OUTAGE FOR 400KV BALIPARA- BONGAIGAON TWIN TRANSMISSION LINE 1&2 FOR SHIFTING FROM VULNERABLE TOWER NO 305 AND 458 TO NEW PILE FOUNDATION TOWERS ON ACCOUNT OF CHNAGES IN THE RIVER COURSE.

The existing tower Loc. 305(DA+3) & 458 (DA+6) had become vulnerable in 2023 due to soil erosion on account of River Nonai at Tower location no.305 and River Mora Pagladia at Tower no.458 course change.

From the below sketch, it is clearly seen that the new tower loc. 305 (DA+9) pile foundation & new loc. 458 (DB+9) pile foundation respectively has been spotted below the existing lines on account of space constraints.

As such, for carrying out the shifting from vulnerable towers (305&458) to new pile foundation towers installed in the same orientation of the line is not at all possible without the continuous shutdown of 400kV Balipara-Bongaigaon CKT-1&2.

Feasibility of ERS:

For Tower no.458: ERS erection is not possible due to space constrain and presence of A type tower (457 & 459) and due to violation of angle of deviation with ERS towers

For Tower no.305: ERS erection is not possible due to presence of the following:

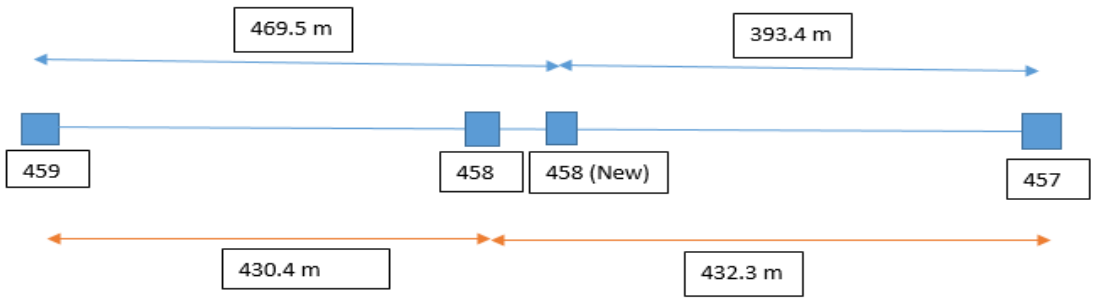
- 33 KV Line of AEGCL connecting Tangla-Harisinga on the south side at a distance of 17 meter
- Pachim Jangalpara LP School on the North side at a distance of 55 meter
- Hutment on the North side at a distance of 17 meter

- Nonai River on the West Side.

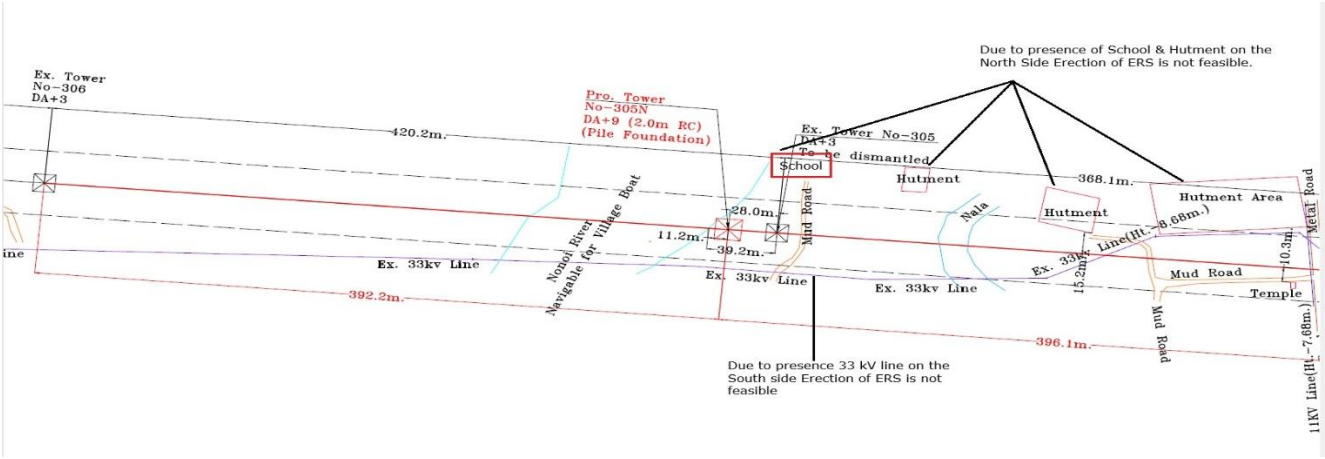
In view of the above, for carrying out the shifting from vulnerable towers (305&458) to new pile foundation towers requires the minimum 15 days continuous shutdown of 400kV Balipara-Bongaigaon CKT-1&2 as it involves the following huge works and same being proposed on D-5 basis in the month of December/January-2025

1. Removal of jumpers and spacers of all 3 phases of the between towers
2. Back stay arrangements of the Towers before destringing of conductors from the vulnerable towers.
3. Destringing of conductor of all 3 phases between spans
4. Dismantling of existing vulnerable towers
5. Erection of new towers on pile foundations.
6. Stringing of all 3 phases of the conductors
7. Fixing of spacers between spans in all 3 phases
8. Jumpering works of all 3 phases.

Tower Location no.458



Tower Location no.305



Placed for information and records please

2.15. Urgent Intervention required for various tower locations in following transmission lines which have become vulnerable due to earth cutting/road development by NHIDCL (Agenda by Powergrid):

a) 132 kV Jiribam-Loktak S/C transmission line

b) 400kV Silchar-Imphal D/C transmission line

c) 132 kV Haflong-Jiribam S/C transmission line

Brief:

The ongoing NHIDCL road widening project (NH-37) in Manipur & Assam has impacted above transmission lines critically. Despite several correspondences, NHIDCL has not adhered to the Standard Operating Procedures (SOPs) prescribed by the Ministry of Power and earth cutting/road development is being continued by NHIDCL without permission of POWERGRID. Similar issue was also discussed in 28th TCC & NERPC meeting. Details of vulnerable tower locations are as under:

a) 132 kV Loktak-Jiribam S/C transmission line

- Tower location Nos. 18, 76, 85, 89, 129, 130, 133 (7 Nos.)
- Location No. 82 was damaged on 08.08.2025 due to landslide caused by earth cutting and subsequently collapsed and line became out of service. Same was restored subsequently on 05.09.2025 by carrying out direct stringing between location no. 81 & 83 and doing huge benching work on war footing basis.
- Joint meeting with Commissioner Power (Govt of Manipur), NHIDCL, MSPCL carried on by POWERGRID on 06.08.25, where it was advised by Commissioner (power), Manipur for joint survey for all vulnerable locations. Joint survey done from 11.08.25 to 14.08.25 and report signed on 03.09.25.

b) 400 kV Silchar Imphal D/C transmission line

- Tower location Nos. 201, 231, 293, 306, 335, 423 (6 Nos.)
- Joint meeting with Commissioner Power (Govt of Manipur), NHIDCL, MSPCL was carried out by POWERGRID on 06.08.25 and Commissioner

(Power), Manipur advised for joint survey for all vulnerable locations. Joint survey done from 11.08.25 to
14.08.25 and report signed on 03.09.25.

- 3 nos vulnerable locations (Loc-293,335 & 423) not agreed by NHIDCL even though distance from tower leg to cutting edge/landslide is only 5-6 mtr.

c) 132 kV Haflong-Jiribam S/C transmission line

- Tower location No. 256 has become vulnerable
- Diversion proposed between tower locations 237-246 and 253-259 (as per joint visit with NHIDCL)
- Cost estimate submitted to NHIDCL in the year of 2023.

Proposal

- Estimated cost of rectification / diversion of transmission lines is approx. Rs. 50 Cr.
- If timely action is not taken, the potential failure of these lines could lead to severe power disruptions across Manipur & Assam and accident may occur.
- NERPC's urgent intervention is requested to take up the matter with NHIDCL to halt excavation work/road development work near tower locations without permission of POWERGRID.
- In the meantime, POWERGRID is going ahead with rectification/ diversion based on criticality of tower locations in the interest of safety of transmission lines. Further, the matter of recovery of expenditure incurred for the diversion of critical towers is currently being pursued with M/s NHIDCL. In the event of non-acceptance by NHIDCL, it is proposed that the one-time reimbursement of expenditure from beneficiaries may be allowed.

2.16. Urgent Intervention required for various tower locations in following transmission lines where violation of ground clearance noticed due to road development project by NHIDCL (agenda by Powergrid)

a) 400 kV Silchar – Melriat D/C transmission line (Charged at 132 kV)

b) 400 kV Silchar-Imphal D/C transmission line

Violation of ground clearance noticed due to road development project by NHIDCL:

a) 400 kV Silchar – Melriat D/C transmission line (Charged at 132 kV)

- Ground clearance violation locations are 43-52, 65-68, 70-72, 122-125.

b) 400 kV Silchar-Imphal D/C transmission line

- Ground clearance violation locations are 49-59, 64-67, 192-193.

- These violations pose a serious safety hazard, increasing the risk of potential accidents involving personnel and the public. If timely action is not taken, it may lead to significant threat & hazard to both human life and material assets.
- NERPC's urgent intervention is requested to take up the matter with NHIDCL to halt road development work near tower locations without permission of POWERGRID.

In the meantime, POWERGRID is going ahead with rectification/ diversion based on criticality of tower locations in the interest of safety of transmission lines. Further, the matter of recovery of expenditure incurred for the diversion of critical towers is currently being pursued with M/s NHIDCL. In the event of non-acceptance by NHIDCL, it is proposed that the one-time reimbursement of expenditure from beneficiaries may be allowed.

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

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

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

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

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

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

Agenda from NHPC

2.18. Allocation of Free power Share of Government of Ar. Pradesh (11%+1% LADF, I.e. 240MW) from Subansiri Lower HEP to UPPCL (215MW) and TSECL(25MW)

The Ministry of Power (MoP), Government of India, vide allocation order dated **14.07.2009**, allocated power from the **Subansiri Lower Hydro Electric Project (HEP)**, which was subsequently revised through MoP order dated **25.07.2022**. As per these allocation orders, **1000 MW** has been earmarked for the **North Eastern Region**, **387 MW** for the **Northern Region**, and **613 MW** for the **Western Region**.

In the original allocation order, **12% free power** (including **1% towards the Local Area Development Fund – LADF**) was earmarked for the **Government of Arunachal Pradesh (GoArP)**.

Further, as per the **Memoranda of Agreement (MoAs)** signed between **GoArP and NHPC on 24.06.2007** for execution of **Tawang-I, Tawang-II**, and **Dibang Multipurpose Project**, NHPC had paid an advance of **₹225 crore** to **GoArP**. The MoAs authorize NHPC to **sell the free power on behalf of GoArP** to recover the advanced amount with compounded interest @9% per annum, from the **first project commissioned in the State**, including **Subansiri Lower HEP**, at the **CERC-determined tariff**.

Subsequently, **GoArP**, vide its letter dated **04.03.2025**, requested NHPC to sell both **11% free power and 1% LADF power** at the CERC-determined tariff. Based on this, NHPC approached various **DISCOMs** for procurement of the above free power.

Uttar Pradesh Power Corporation Limited (UPPCL) and **Tripura State Electricity Corporation Limited** have conveyed their consent for procurement of GoArP's free power share (11% + 1% LADF) at CERC-determined tariff. Corresponding **Power Purchase Agreements (PPAs)** have been executed with UPPCL and TSECL.

It is submitted that one unit of Subansiri Lower HEP (2000 MW) is expected to be commissioned in November 2025 and three additional units are scheduled for commissioning by January 2026.

In view of the upcoming commissioning schedule, it is essential to finalize the **modalities for scheduling of GoArP's free power** before the first unit becomes operational.

Accordingly, it is requested that **NERPC may issue the necessary allocation** of the **Government of Arunachal Pradesh's free power share (11% + 1% LADF, i.e. 240 MW)** as follows:

- **Uttar Pradesh Power Corporation Limited (UPPCL): 215 MW**
- **Tripura State Electricity Corporation Limited (TSECL): 25 MW**

Further, to allocate the power to UPPCL and TSECL as per above ratio on pro rata basis for the units commissioned of Subansiri Lower HEP.

This allocation will enable **scheduling and delivery of free power** from **Subansiri Lower HEP** to the respective DISCOMs in accordance with the approved agreements and regulatory framework.

Forum may deliberate

Agenda from DoP Ar. Pradesh

2.19. Submission of DPR for the work "Reactive Power Management by Instalaing Capacitor Banks at 33/11kV Sub-stations in Arunachal Pradesh"

The DPR for the said work has been prepared with updated rates and departmental requirements, amounting to Rs111.50 Crore, and is hereby placed in this forum for consideration and approval. The DPR is attached as **annexure 2.19**.

It is requested to MS NERPC to kindly recommend the proposal to the convenor, TESG, NLDC (PSDF), Grid India, New Delhi, for consideration of the project under PSDF.

Agenda from MePGCL

2.20. Improvement of Switchyard Earthing System at the following Power Stations of MePGCL -MePGCL

i. **Umiam Stage-I Power Station, MePGCl, Sumer (4 X 9 MW)**

ii. **Umiam Stage-II Power Station, MePGCl, UmSumer (2 X 18 MW)**

iii. **Umiam-Umtru Stage-IV Power Station, MePGCl, Nongkhylllem (2 X 30 MW)**

iv. **Myntdu Leshka Hydro Power Station, MePGCL, Suchen (3X 42 MW)**

Explanatory Note:

The proposal envisages improvement of Switchyard Earthing System at different Power Station of MePGCL by construction of new earth pits and installation of connecting bars between the new earth pit and different elements etc with an ultimate aim to improve system stability as the revamping of the earthing system is felt extremely necessary to minimise the damage of critical terminal equipments like Current transformers. Circuit breakers, Lightning Arrestors etc along with safeguarding the equipments such as SCADA, RTU and other communication systems as the Power Stations of MePGCL are located in high lightning prone areas and improvement in the earthing system is envisaged for enhancing system

stability by reducing the failure rate of such critical equipments and components.

This proposal was placed during the 28th TCC meeting at Guwahati wherein it was referred to the Sub Committee meeting for subsequent discussions/deliberations etc.

In the 224th OCC meeting, it was appraised that this proposal does not fall under the purview of PSDF Guidelines. However, it is again requested by MePGCL to consider this proposal under clause 5.1 (c) "installation of standard and special protection schemes" which seems to be as per the revised guidelines of PSDF received on 12th March-2024 and in line with the objective of PSDF towards bringing in the **improvement and reliability of Indian Power System.** In this regard, it is also to be mentioned that similar proposal has been approved under PSDF for our transmission utility which is MePTCL and the LOA was accordingly placed by MePTCL on 20th December-2018.

Tentative Cost – Rs 3.00 Crore approx.

Due to lack of fund constraint and considering the importance of the proposal with regards to improving the system stability and strengthening of the basic protection scheme, MePGCL is requesting this forum to reconsider recommending the funding of this project from PSDF.

Agenda from MSPCL

2.21. Implementation of Digital Tele-Protection Coupler (DTPC) in all 132kV Feeders of MSPCL -MSPCL

To improve reliability, speed, and coordination of protection and auto-reclose schemes, implementation of Digital Tele-Protection Coupler (DTPC) across all 132kV feeders has become a necessity. The DTPC will integrate with IEC 61850-based numerical relays or Substation Automation Systems (SAS), thereby ensuring fast, secure, and reliable exchange of protection and auto-reclose commands between substations. These systems facilitate carrier-aided protection schemes (such as permissive tripping and blocking) and

voice/data communication between substations Implementing DTPC will enable fast transmission of trip/transfer trip/blocking signals, reducing fault clearing time and improving system stability, enhance Auto-Reclose (A/R) Operation as DTPC ensures synchronous and dependable auto-reclose coordination between line ends by providing high-speed, fail-safe communication of breaker status and reclose commands. This minimizes the risk of unsuccessful or out-of-sync reclosures and enhances system stability after transient faults.

In recent years, Optical Ground Wire (OPGW) networks are being laid and commissioned in almost all of the 132 kV transmission lines of MSPCL, providing a robust and high-bandwidth communication backbone. This existing OPGW infrastructure can be effectively utilized for easy and practical implementation of DTPC systems, without major additional investment in communication media.

As per Guidelines on Availability Of Communication Systems prepared in Compliance To Central Electricity Regulatory Commission (Communication System for inter-State transmission of electricity) Regulations, 2017, January 2024, Clause No. 3.1 ***As per Regulation 5 (i) of the CERC (Communication System for inter-State transmission of Electricity), Regulations, 2017,*** "***These regulations shall apply to the communication infrastructure to be used for data communication and tele -protection for the power system at National, Regional and inter-State level and shall also include the power system at the State level till appropriate regulation on Communication is framed by the respective State Electricity Regulatory Commissions***." MSPCL requests NERPC's endorsement and support for implementing Digital Tele-Protection Couplers (DTPC) in all 132kV feeders across Manipur. This will strengthen protection coordination, auto-reclose performance, and overall reliability of the State Transmission Network, aligning with the modernization goals of the North Eastern Regional Power System.

Deliberation Required:

- Approval in principle from NERPC/TCC for statewide DTPC implementation.
- Recommendation for funding support under PSDF or other Central schemes
- Coordination with CTUIL/CTU and neighboring utilities for interoperability and standardization of DTPC protocols and A/R communication logic.

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 231st OCCM, Mizoram informed the forum that DCD at Kolasib substation is damaged. Also, Vinplus software available in the laptop has license issues due to which data cannot be directly downloaded from the laptop from the meter. Forum advised Mizoram to resolve the issues at the earliest.

Mizoram may kindly update.

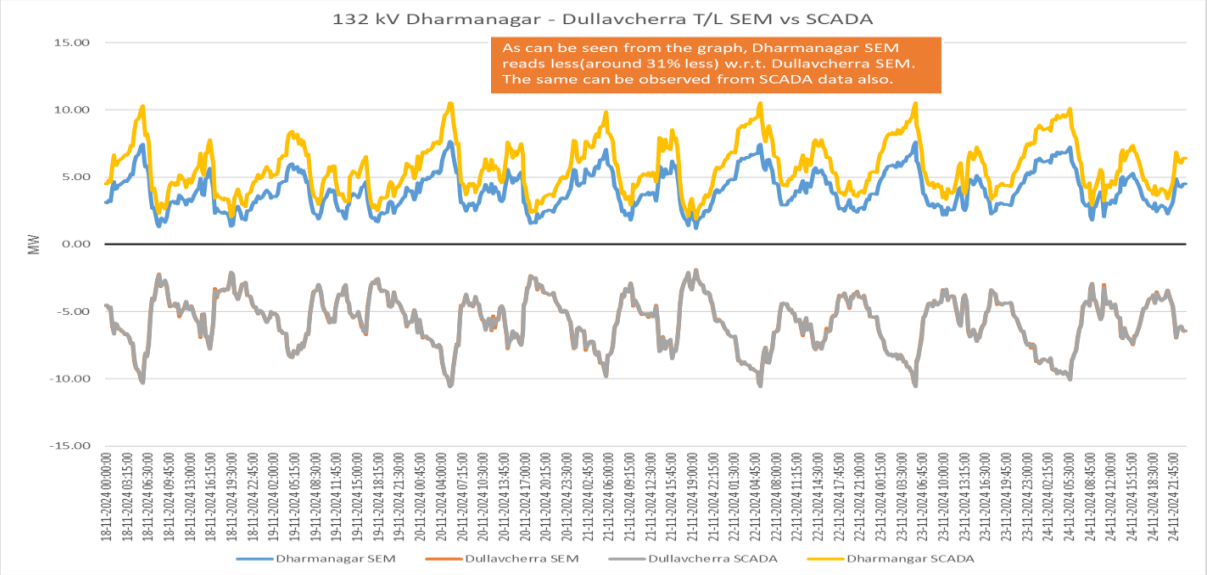
3.2. Issue in SEM data of 132 kV Dharmanagar end of Dullavcherra Feeder:

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. In the 231st OCCM, Tripura informed the forum that they have procured three laptops specifically for the purpose of collecting meter data. However, they currently do not possess the necessary software(licence). Tripura further informed the forum that they plan to purchase the relevant software from the Original Equipment Manufacturer (OEM).

However, the same is yet to be resolved. Tripura is hereby requested to provide updates on the issue and provide contact details of personnel stationed at Dharmanagar S/S for future communication. Forum is also requested to discuss possible measures in the event of non-availability of SEM data from Dullavcherra end as SCADA data of Dharmanagar end has not been reporting (deliberated in agenda item in NETeST meetings (Annexure-IV)) and intermittency of Dullavcherra SCADA data. It is to be noted that PMU is not installed in the following element.

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.

In the 231st OCCM, Tripura informed the forum that they have procured three laptops specifically for the purpose of collecting meter data. However, they currently do not possess the necessary software(licence). Tripura further informed the forum that they plan to purchase the relevant software from the Original Equipment Manufacturer (OEM). The forum has instructed Tripura to expedite the procurement of the software, as it is a relatively minor expenditure and a key step in resolving the issue.

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 231st OCCM, Tripura informed the forum that they have procured three laptops specifically for the purpose of collecting meter data. However, they currently do not possess the necessary software(license). Tripura further informed the forum that they plan to purchase the relevant software from the Original Equipment Manufacturer (OEM). The forum has instructed Tripura to expedite the procurement of the software, as it is a relatively minor expenditure and a key step in resolving the issue.

Tripura may Update Status.

PART-D: ITEMS FOR UPDATE/FOLLOW-UP

4.1 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 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	

Sl. No	Agenda	Owner	Deliberation in earlier OCC meeting	Present status
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 commissioning at Panyor Lower HEP (PLHEP)	NEEPCO	230th OCCM: NEEPCO informed that the work is expected to be completed by Dec'25.	
4	Urgent Review of Online Element	NEEPCO	228th OCCM: NEEPCO informed that budgetary offer has not been received yet; tentative	

Sl. No	Agenda	Owner	Deliberation in earlier OCC meeting	Present status
	Transfer at 132 kV PLHPS		completion target is June'26. 230th OCCM: Done for two lines, for the rest, to be done by June'26	

Utilities may update

4.2 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-	04-08-2024	Z-1, 18.5 km, O/C	Elements under outage for more than 6 months and as elements is under

	Churachandpurckt 1			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

4.3 Implementation/Review of Islanding schemes of NER:

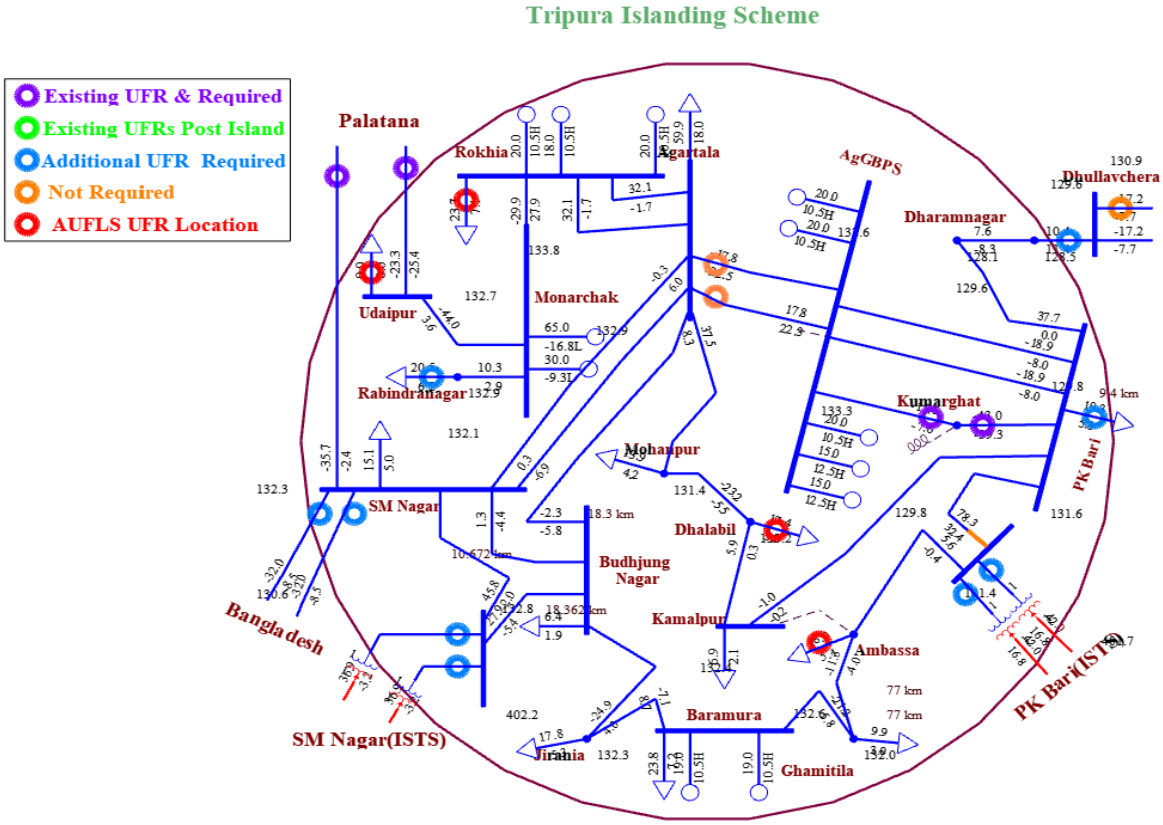
As per Clause 10 of the Central Electricity Authority (Grid Standards), Regulations, 2010: "Islanding Schemes- (1) The Regional Power Committees shall prepare Islanding schemes for separation of systems with a view to save healthy system from total collapse in case of grid disturbance. (2) The Entities 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

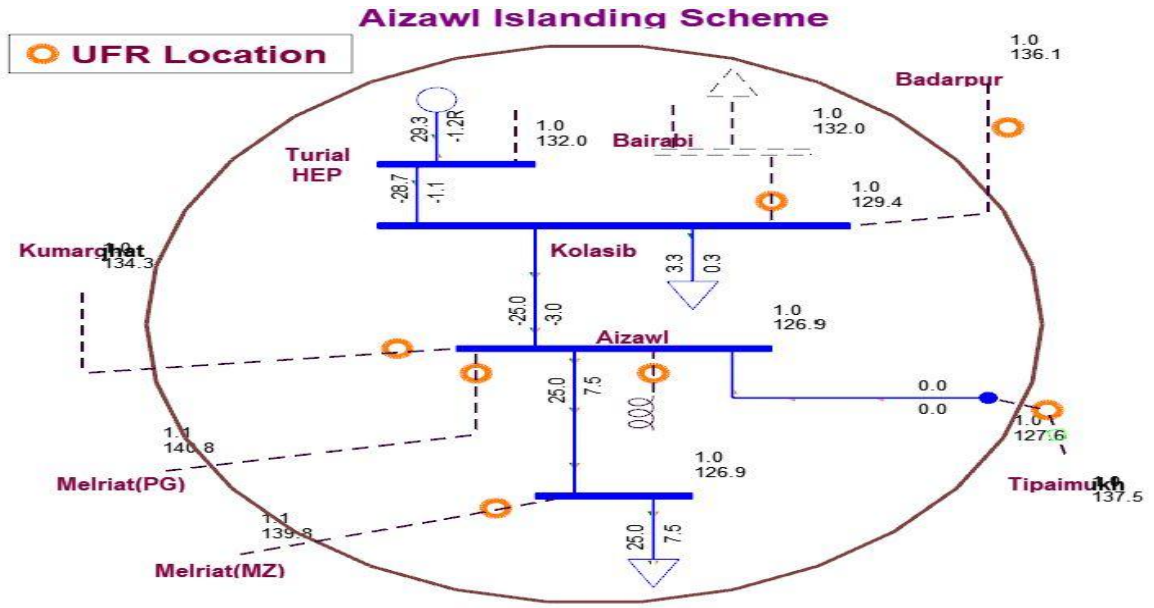
B. Tripura/Agartala Islanding Scheme

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 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 update

4.4 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 update

4.5 Monthly Review of LGBR

PARTICULARS (Peak Demand in MW as per LGBR vs Actual)	Aug-25 (LGBR)	Aug-25 (Actual)	Sep-25 (LGBR)	Sep-25 (Actual)	Oct-25 (LGBR)	Oct-25 (Actual)
Arunachal Pradesh	214	221	212	196	199	
Assam	2835	2582	3082	2812	2972	
Manipur	261	233	265	239	250	
Meghalaya	384	350	349	344	424	
Mizoram	164	144	162	140	163	
Nagaland	203	190	201	191	205	
Tripura (exc. Bangladesh)	381	362	409	362	390	
NER DEMAND (exc. Bangladesh)	4265	3922	4396	4157	4386	

PARTICULARS (Energy Requirement in MU as per LGBR vs Actual)	Aug-25 (LGBR)	Aug-25 (Actual)	Sep-25 (LGBR)	Sep-25 (Actual)	Oct-25 (LGBR)	Oct-25 (Actual)
Arunachal Pradesh	111	115.59	103	114.49	102	
Assam	1521	1439.45	1562	1417.43	1355	
Manipur	85	94.72	89	92.61	115	
Meghalaya	190	169.41	166	169.00	259	
Mizoram	59	63.09	62	61.57	77	
Nagaland	92	94.56	94	92.11	100	
Tripura (excl. Bangladesh)	237	180.54	196	188.87	199	
NER DEMAND (exc. Bangladesh)	2294	2158	2272	2136	2207	

LGBR projection for Novemebr'25, December'25 and January'26

PARTICULARS (Peak Demand in MW as per LGBR)	Nov-25 (MW)	Nov-25 (MU)	Dec-25 (MW)	Dec-25 (MU)	Jan-26 (MW)	Jan-26 (MU)

Arunachal Pradesh	199	94	204	104	233	123
Assam	2176	1056	2076	1002	2110	1064
Manipur	280	106	318	131	311	148
Meghalaya	479	263	507	281	526	297
Mizoram	176	81	185	89	207	93
Nagaland	206	82	206	90	206	87
Tripura (exc. Bangladesh)	345	159	294	138	291	148
NER DEMAND (exc. Bangladesh)	3624	1841	3634	1836	3658	1959

Forum may deliberate

4.6 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.

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

Deliberation of the 228th OCCM

Member Secretary , 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

4.7 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

4.8 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).

SLDCs may update

4.9 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.

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