सत्यमेव जयते

भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee
एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय
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No.: No. NERPC/SE (O)/OCC/2025/ 4533-4575 March 13, 2025

To
As per list attached

Sub: 223वीं ऑपरेशन समन्वय उप-समिति (ओसीसी) बैठक का कार्यवृत्त / Minutes of 223rd Operation Coordination Sub-Committee (OCC) Meeting

महोदय/महोदया,

कृपया 28 फरवरी 2025 को शिलांग के एनईआरपीसी कॉन्फ्रेंस हॉल में आयोजित 223वीं ओसीसी बैठक के कार्यवृत्त को आपकी जानकारी और आवश्यक कार्रवाई के लिए प्राप्त करें। कार्यवृत्त NERPC की वेबसाइट: www.nerpc.gov.in पर भी उपलब्ध है।

कृपया कोई भी टिप्पणी जल्द से जल्द NERPC सचिवालय को सूचित करें।

Sir/Madam,

Please find enclosed herewith the minutes of the 223rd OCC Meeting held at NERPC Conference Hall, Shillong on 28th February 2025 for your kind information and necessary action. The minutes is also available on the website of NERPC: www.nerpc.gov.in.

Any comments/observations may kindly be communicated to NERPC Secretariat at the earliest.

भवदीय / Yours faithfully,

अनीक

(ए. दे/ A. De)
उप निदेशक / Dy. Director

Encl: As above

Distribution List:

1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Managing Director, APGCL, Bijuli Bhawan, Guwahati – 781 001
3. Managing Director, APDCL, Bijuli Bhawan, Guwahati – 781 001
4. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal – 795 001
5. Managing Director, MSPDCL, Secure Office Bldg. Complex, South Block, Imphal – 795 001
6. Director (Transmission), MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
7. Director (Generation), MePGCL, Lumjingshai, Short Round Road, Shillong – 793 001
8. Director (Distribution), MePDCL, Lumjingshai, Short Round Road, Shillong – 793 001
9. Director (Tech.), TSECL, Banamalipur, Agartala -799 001.
10. Director (Generation), TPGCL, Banamalipur, Agartala -799 001.
11. GM (Transmission), TPTL, Bidyut Bhaban, Banamalipur, Agartala -799 001.
12. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
13. Chief Engineer (TP&MZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
14. Chief Engineer (Commercial) -cum- CEI, DoP, Govt. of Arunachal Pradesh, Itanagar- 791111
15. Engineer-in-Chief, P&E Department, Govt. of Mizoram, Aizawl – 796 001
16. Engineer-in-Chief, Department of Power, Govt. of Nagaland, Kohima – 797 001
17. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
18. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
19. Group GM, NTPC, Bongaigoan Thermal Power Project, P.O. Salakati, Kokrajhar- 783369
20. Vice President (Plant), OTPC, Badarghat Complex, Agartala, Tripura – 799014
21. ED, PGCIL/NERTS, Dongtieh-Lower Nongrah, Lapalang, Shillong -793 006
22. AGM (BD), NVVN, Core 5, 3rd floor, Scope Complex, 7 Institutional Area, Lodhi Rd., N. Delhi-3
23. Vice President, PTCIL, 2nd Floor, NBCC Tower, 15, Bhikaji Cama Place, New Delhi – 110066
24. Dy. COO, CTUIL, "Saudamini", 1st Floor, Plot No. 2, Sector-29, Gurugram, Haryana – 122001
25. Chief Engineer, GM Division, Central Electricity Authority, New Delhi – 110066
26. Chief Engineer, NPC Division, Central Electricity Authority, New Delhi – 110066
27. ED, NERLDC, Dongtieh, Lower Nongrah, Lapalang, Shillong -793 006
28. CGM, AEGCL, Bijuli Bhawan, Guwahati – 781001
29. CGM, APGCL, Bijuli Bhawan, Guwahati – 781001
30. CGM, DISCOM, Bijuli Bhawan, Guwahati – 781001
31. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar – 791111
32. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
33. Head of SLDC, MSPCL, Imphal – 795001
34. Head of SLDC, MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
35. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl – 796 001
36. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur – 797103
37. Head of SLDC, TSECL, Agartala – 799001
38. Chief Engineer (Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124
39. DGM (O&M), OTPC, Badarghat Complex, Agartala, Tripura – 799014
40. Director, NETC, 2C, 3rdFloor, D21Corporate Park, DMRC Building Sector 21, Dwarka, Delhi-77
41. AGM Regulatory & Commercial, NER II TL, 10th Floor, Berger Tower, Noida sector 16B-201301
42. Project Head, NERPSIP/PGCIL, Pub Suraj Nagar, Nutun Bazar, Kahelipara, Guwahati- 781019
43. ED, Comprehensive Scheme (Ar. Pradesh), PGCIL, Tayeng Building, Nitivihar, Itanagar-791111

अलीक

(ए. दे/ A. De)
उप निदेशक / Dy. Director

MINUTES

OF

223RD OCC MEETING

Time of meeting: 10:30 Hrs.

Date of meeting: 28th February, 2025 (Friday)

Venue: NERPC Conference Hall, Shillong

Contents

NORTH EASTERN REGIONAL POWER COMMITTEE

MINUTES OF 223RD OCC MEETING TO BE HELD ON 28.02.2025 (FRIDAY) AT 10:30 HRS

List of Participants is attached as **annexure I**

1. PART-A: CONFIRMATION OF MINUTES

1.1. Confirmation of Minutes of 222nd Meeting of OCC Sub-Committee of NERPC

The minutes of 222nd meeting of OCC Sub-committee held on 17.01.2025 at NERLDC Conference Hall, Guwahati were circulated vide letter No. NERPC/SE (O)/OCC/2025/ 3794-3836 dated 27th January, 2025.

NERLDC provided comments on minutes of 222nd OCCM as follow -

2.8. Multiple Grid constraints in Assam Power system:

NERLDC comments may be added as

The ED NERLDC highlighted concerns regarding multiple grid constraints in the Assam power system, emphasizing that several areas are highly vulnerable to grid disturbances under N-1 contingency conditions. To address this issue, he urged the RPC forum to organize a summer preparedness workshop or meeting aimed at minimizing the risk of grid disturbances. The forum acknowledged the concerns and agreed to proceed with the proposed initiative.

2.15. Philosophy and logic for FSC auto switching and auto disconnection in 400 kV Bongaigaon-Balipara 3 &4 at 400 kV Balipara S/S

NERLDC comments may be added as

NERLDC has reviewed the documents shared by PGCIL and raised concerns regarding the operation criteria outlined in the document. It requested NERPC to examine the matter, as the document indicates that the Fixed Series Compensation (FSC) is to be manually brought into service but automatically bypassed/isolated from the grid, which appears to violate the grid operation protocols specified in the Operating Code of IEGC 2023.

NERLDC emphasized that any operation of the FSC must be carried out only after exchanging the necessary code with NERLDC control room to ensure compliance with established grid protocols.

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

Along with the comments provided by NERLDC stated in the deliberation, the following comments may be added.

NERLDC also requested Tripura to look into the possibility for replacement of 5A CT Secondary with 1 A CT secondary. Tripura would look into the same and intimate.

3.2 Issue in SEM data of 132 kV SM Nagar (TSECL) end of Palatana Fdr. (400 kV T/L charged at 132 kV):

Following point also discussed and may be added.

If resolution is not feasible, Tripura shall revert back to original configuration for existing LnT SEM meter.

3.4 Issue in Receipt of Data from Luangmual S/S

"Manipur" may be replaced with "Mizoram"

3.7. Metering Philosophy used in NERLDC for energy accounting:

Annexure-C 3.7 may be changed with the attachment provided along with the comments.

The Month-Ahead Resource Adequacy Assessment for February 2025 was also discussed during the 222nd OCC meeting. It is requested to include the assessment report in the final minutes

Sub-committee noted the comments of NERLDC and confirmed the minutes of 222nd OCCM after incorporating the comments.

2. PART-B: ITEMS FOR DISCUSSION

AGENDA FROM NERPC

2.1. Outage planning

I. Generation Planning (ongoing and planned outages)

a. Based on the reservoir level data provided by NEEPCO and NHPC, present day MU and projected number of days of operation are tabulated below -

Plants	Reservoir Level in meters (as on 28/02/2025)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong + Khandong STG II	716.63	21.93	Under SD	
Kopili	607.65	86	1.60	54
Doyang	314.3	12	0.16	75
Loktak	767.02	30	1.00	30

The outage of generating stations may be approved considering the present water levels in reservoirs.

b. CEA has approved the generation outage plan for FY 2025-26. The outage plan for NER is attached as **annexure 2.1**. 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.

c. The Annual Shutdown of Palatana Block-2 planned for FY 25-26 in June 2025, please note that the HGPI of Gas Turbine #2, the medium inspection of Steam Turbine Generator #2 and Gas Turbine Generator #2, and the minor inspection of Steam Turbine #2 are scheduled to

begin on 25th June 2025, lasting for 21 days. Forum deliberate upon it and all the beneficiaries may take note of it

II. Outage Planning of Transmission elements

As per the Outage planning procedure of NER, the monthly planned outages have to be discussed in the monthly outage planning meeting or OCC meeting. Also, according to the procedure, 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 12:00 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.

Subsequently NER stakeholders have provided shutdown request for transmission elements for the month of March 2025.

Sub-committee may deliberate upon the planned shutdowns for the month of March'25.

Deliberation of the sub-committee

NERPC apprised that the shutdown proposal for the month of March had been discussed in monthly shutdown discussion meeting held on 25.03.2025 and the list of approved shutdowns has been attached as **annexure 2.1.1.**

Further NERPC informed that some states had not joined the meeting and therefore their shutdown proposal had not been considered.

Regarding the generation outage plan for FY 2025-26, MS NERPC apprised that CEA has approved the plan and exhorted the generators to adhere to the approved shutdown plan.

Regarding outage request of Palatana block 2 the forum noted that the proposed shutdown schedule is deviating from the CEA approved one. OTPC stated that the deviation has been caused due to the availability issues w.r.t. expert manpower from GE & BHEL, special tools & tackles and Spares for Gas turbine and Steam turbine maintenance.

MS NERPC stated that CEA has already approved the generation outage plan. If there is slight deviation, it can be discussed in the forum and to be approved after taking consent from the beneficiary and it will be intimated to CEA.

AGENDA FROM NERLDC

2.2. Operational Performance and Grid discipline during February 2025

NERLDC presented the Operational Performance and Grid Discipline Report for the month of February 2025, which is attached as **annexure 2.2**.

Sub-committee noted the above

2.3. 12th Basic Level Certification Examination for Power System Operators

As per the CEA's Statutory Guidelines for Training and Certification of Load Dispatchers, it is mandatory for all employees working in the Control Room to hold a valid Basic Level Power System Operation Certification.

In this regard, NPTI (PSTI), Bangalore, will conduct the 12th Basic Level Certification Examination for Power System Operators on March 30, 2025, from 09:00 to 11:30 hours at various locations across the country.

This is for general information to all Power System Operators of NER to take the Basic Level Certification Examination.

Deliberation of the sub-committee

The forum urged all the states to undertake the examination for the system operators to ensure availability of qualified manpower to man the control rooms of SLDCs and ensure compliance with MoP/CEA guidelines.

2.4. 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 where 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	30-05-2024 (U 1) & 05-06-2024 (U 3 & 4)
3	AgGBPS GTG 2	11-09-2024

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

Mock Black Start of the following generating plant are pending:

Sl. No.	**Name of Power station**	**Last date of Mock exercise**	**Expected date of Mock exercise**
1	Doyang HEP	12-05-2023	Feb/March'25
2	Khangdong Stg-2 HEP	-	Feb/March'25
3	Kameng HEP	-	Feb/March'25

4	Loktak HEP	31-07-2023	Feb/March'25
5	Pare HEP	10-01-2024	Feb/March'25
6	Panyor HEP	30-05-2023	Feb/March'25
7	Turial HEP	-	Feb/March'25

Sub-committee may deliberate

The forum exhorted the generating plants (mentioned in the table above) to carry out the MBS exercise by March'2025.

2.5. Sharing of Methodology of Day-Ahead/ week ahead/ Month ahead Demand Forecasting

As per deliberation in Agenda Item 2.4 of 222nd OCC meeting held on 17th January 2025, all the NER SLDC's were requested to review the respective methodology of the states for demand forecasting in Day-Ahead/ week ahead/ Month ahead Demand Forecasting horizon.

In view of the above, it is requested to accept the draft methodology. Further, proper analysis of the methodologies is requested for a more reliable demand forecast. The relevant methodology is attached in **Annexure 2.5**. A handholding session will also be organized to help increase familiarity with the forecasting methodologies.

Deliberation of the sub-committee

NERLDC apprised that a workshop on the methodology will be organised on 26 March at NERLDC, Guwahati. The forum urged all the Discoms and SLDCs to actively participate in the workshop.

2.6. Urgent Review of Online Element Transfer at PLHPS

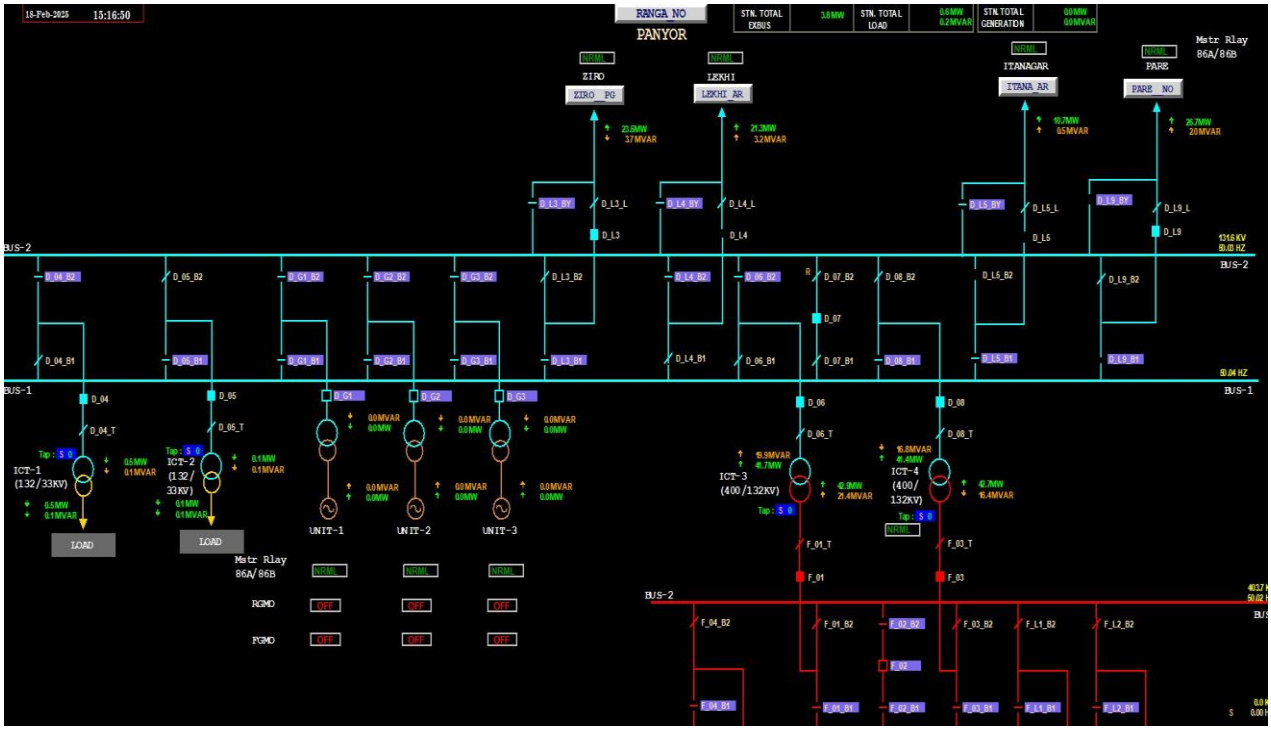
The Bus Scheme of PLHPS at the 132 kV level is a Double Main scheme, as confirmed via email. In this type of bus arrangement, the online transfer of elements from one bus to another can be performed seamlessly without any interruption in power flow.

As per the decision of the previous OCC forum, NERLDC requested PLHPS to transfer of an element to another bus on January 28, 2025, to facilitate the testing and verification of the healthiness of the non-energized element. However, in response to this request, Panyor NEEPCO stated that the existing scheme of PLHPS does not permit the online switching of isolators and that such an operation has never been carried out since the commissioning of the station.

This issue has already been raised with the NEEPCO team, highlighting that online bus transfers of elements are being successfully performed at multiple stations within the NER Grid, including AgGBPS, which is also owned by NEEPCO. However, PLHEP executives have consistently denied such operations, citing that they have never been practiced at their station.

It is important to note that with the commissioning of the 132 kV Roing-Chapakhowa D/C line and the increasing industrial load in the Pasighat area, the 132 kV Panyor-Ziro-Daporijo-Basar-Along-Pasighat-Roing-Chapakhowa link has become vital for Arunachal Pradesh and Assam power systems.

Given the importance of ensuring system reliability, a review of the non-transfer of elements at PLHPS is strongly recommended. If online element transfers are indeed not feasible under the current setup, experienced personnel should be consulted to explore possible solutions and address the issue effectively.



Deliberation of the sub-committee

NEEPCO informed that online transfer could not be done due to alignment issue with the isolator as isolators are old (commissioned in 2002). He further stated that rectification works are underway and issue will be resolved shortly. The status update on this issue may be followed up in the upcoming OCC meeting.

2.7. Submission of Dynamic Model for ±800 kV MTDC Agra-BNC-Alipurduar

As you are aware, GRID-INDIA is responsible for ensuring the secure and reliable operation of the Indian power system. A critical aspect of this responsibility involves conducting system studies and power system stability simulations to proactively implement measures for grid security.

In this regard, the submission of the dynamic model for the ±800 kV Agra-BNC-Alipurduar HVDC MTDC has already been communicated by NLDC, GRID -INDIA. Letter enclosed in **Annexure 2.7**.

However, we have not yet received the required dynamic model. ***This data is crucial for islanding formation studies, especially considering that the ±800 kV MTDC Agra-BNC-Alipurduar operates in frequency control mode.***

We kindly request you to submit the model at the earliest to facilitate these studies effectively.

Deliberation of the sub-committee

NERTS stated that the matter has to be taken up with the corporate office and the same will be done shortly.

2.8. Issues Identified During Recent Isolator Shifting activity

During the recent isolator shifting activities following measure issues were identified

1. Hotspots were detected at the 132 kV SM Nagar Substation and 132 kV PK Bari Substation after shifting the element from one bus to another. Due to this, the utility was advised to revert to the original configuration. The activity was carried out on 10th January 2025.
2. During bus shifting at 220 kV Balipara station, it was noted that the shifting of the 220 kV Balipara-Sonabil Line-2 was not completed. This was due to an alignment issue with the 220 kV Bus-1 Isolator. The activity took place on 18th December 2024.
3. Additionally, Power Grid has expressed issues to proceed with the shifting at multiple substations: PGCIL may clarify the reason.

Deliberation of the sub-committee

Regarding point no. 1, M/s NTL (Indigrid) informed that hotspots occurred due to isolator alignment issues at both substations and the issues have bene rectified now.

Regarding point no. 2, NERTS informed that the concerned bays are maintained by AEGCL. AEGCL stated that they will look into the matter and will reply shortly to NERLDC.

Regarding point no.3, NERTS apprised that they undertake shifting exercises regularly every year. Further, he requested NERLDC to provide the scheduled dates for such exercise beforehand.

2.9. Status Update on Upcoming Elements and Their Impact on the NER Grid

Multiple elements have been approved by CTU and CEA for integration into the NER Grid based on future system studies. These additions are expected to enhance the overall reliability and stability of the grid.

A detailed list of these elements has been compiled in the table below. We request all utilities to provide the current status and estimated targets of these elements. Timely updates and completion of the project will help ensure a smooth and efficient integration process, contributing to the strengthening of overall NER Grid.

Sl. No.	Name of elements	State/States	Impact
	400 kV elements		
1	LILO of one D/c (ckt-1 & ckt-2 of line-1) of Lower Subansiri – Biswanath Chariali 400kV (Twin Lapwing) 2xD/c lines at Gogamukh S/s	Assam	This will significantly improve the power transmission capability of the Assam and Arunachal Pradesh (AP) systems. Arunachal Pradesh will benefit from additional connectivity via the Gogamukh side, ensuring a more reliable power supply to the southeastern part of its

			network. This development is expected to result in an approximately 80 MW increase in the Total
2	1. Establishment of Gogamukh 400/220/132 kV substation 2. 400/220kV, 2x500MVA ICTs alongwith associated ICT bays at both levels 3. 220/132kV, 2x200MVA ICTs alongwith associated ICT bays at both levels 4. 420kV, 2x125MVAr bus reactor along with associated bays	Assam	Transfer Capability (TTC) of AP and Assam system will improve.
3	Installation of a new 420 kV, 1x125 MVAr bus reactor at Bongaigaon (POWERGRID) S/s in one of the vacated bays after decommissioning of above mention 420kV, 2x50MVAr bus reactors	Assam	around 3 kV Voltage change observed at Bongaigaon
4	One of the existing 2x80 MVAr bus reactors (presently installed in parallel in same bay) may be installed at Bongaigaon (POWERGRID) S/s in other vacated bay after decommissioning of above mentioned 420 kV, 2x50	Assam	Smooth switching of Reactors without any interupting any elements

	MVAr bus reactors		
5	Decommissioning of existing 420kV, 50MVAr (bus reactor-1) and installation of new 420kV, 125MVAr bus reactor in its place along with replacement of associated main and tie bay equipment at Balipara (POWERGRID) S/s.	Assam	around 3 kV Voltage change observed at Bongaigaon
6	Installation of new 420 kV, 1x125 MVAr, 3-Ph Variable Shunt Reactor (VSR) having variable range from 63MVAr to 125MVAr (with at least 25 tap positions) along with associated GIS bay at Misa (POWERGRID) S/s	Assam	around 3-kV Voltage change observed at Misa
7	Establishment of new 400kV switching station (to be upgraded to 400/220kV level in future) at Bokajan in Assam	Assam	Bokajan S/S is a pooling station for 750 MW solar Project developed by AEGCL
8	LILO of both circuits of Misa (POWERGRID) – New Mariani (POWERGRID) 400kV D/c line at Bokajan	Assam	Bokajan S/S is a pooling station for 750 MW solar Project developed by AEGCL
9	Shifting of Palatana – Surajmaninagar (TSECL) 400 kV D/c line (operated at 132 kV) to the 400/132 kV ISTS S/s at Surajmaninagar so as to form Palatana – Surajmaninagar (ISTS) 400 kV	Tripura	Improve the reliability of Palatana generation

	D/c line and its operation at 400 kV (24 ckm)		
10	LILO of Palatana – Surajmaninagar (ISTS) 400 kV D/c line at 400/132 kV Surajmaninagar (TSECL) S/s along with associated 4 no. 400kV linebays (12 ckm) - In matching timeframe of upgradation of 400/132kV Surajmaninagar (TSECL) substation	Tripura	Improve the reliability of Palatana generation
11	LILO of both circuits of Bongaigaon – Balipara 400kV D/c (Twin Moose) line at Rangia	Assam	Around 200 MW increase in TTC of Assam
12	LILO of Silchar (PG) – Byrnihat (MePTCL) 400kV S/c line at Sonapur	Assam	Around 150 MW increase in TTC of Assam
	220 kV Elements		
1	Kathalguri (NEEPCO) – Namsai (POWERGRID) 220kV D/c line (150ckm)	Assam & AP	This will significantly improve the reliability of Assam and Arunachal Pradesh (AP) systems.
2	Bihpuria – Gogamukh 220kV D/c line (line to be implemented by AEGCL)	Assam	Around 60 MW increase in TTC.ATC of Assam. 10
3	Rowta (New)-Rangia (New) 220kV D/c Line (Single zebra)-80 km	Assam	Reliable power supply to Rowta, Depota and Ghoramaris Area of Assam powers system

4	LILO of both ckt of Alipurduar (PGCIL) - Bongaigaon (PGCIL) D/C line at Gossaigaon(AEGCLNew)	Assam	Minimum 100 MW increase in TTC of Assam. The Assam can draw more power from Agimoni side based on the development of downstream network.
5	220 kV New Kohima-Mokokchung (PG) S/C via Workha	Nagaland	
6	LILO of one ckt of Misa-Dimapur 220kV D/c at Tsitrongse (60km loop-in and 60km loopout)	Nagaland	Significantly improve the reliability of Dimapur of Nagaland systems. Minimum 80 MW increase in TTC/ATC of Nagaland. The Improvement in drawl capbility will depends on downstream devlopment.
7	Upgradation of 220/132 kV ICT at Rangia from 100 MVA to 220 MVA	Assam	This will improve the drawl capability of Rangia Area of Assaam Power system.
	132 kV elements		
1	Stringing of 2nd circuit of Pasighat (Arunachal Pradesh) – Roing (POWERGRID) 132kV S/c on D/c line with ACSR Panther conductor- 103km	AP	Significantly improve the reliability of Arunachal Pradesh (AP) systems.20-25Mincrease in TTC/ATC of Arunachal Pradesh.
2	Stringing of 2nd circuit of Roing (POWERGRID) – Tezu (POWERGRID) 132kV S/c on D/c line with ACSR Panther conductor- 73km	AP	

3	Stringing of 2nd circuit of Tezu (POWERGRID) – Namsai (POWERGRID) 132kV S/c on D/c line with ACSR Panther conductor- 95.24km	AP	
4	Gogamukh (ISTS) – Gerukamukh (Arunachal Pradesh) 132kV ACSR Zebra D/c line	Assam & AP	Significantly improve the reliability of Arunachal Pradesh (AP) systems.80 MW increase in TTC/ATC of Arunachal Pradesh.
5	Upgradation of existing 132kV Namsai (POWERGRID) S/s to 220kV (with 220kV side as GIS) with 2x160 MVA ICTs	AP	
6	Reconductoring of Khandong (NEEPCO) – Halflong (POWERGRID) 132 kV S/c line [excluding the LILO portion of this line at Umrangshu (AEGCL) S/s, which is owned by AEGCL] with Single HTLS conductor of ampacity 600A (at nominal voltage level) (63.06km)	Assam	Improvement in reliability of Assam & Meghalaya po
7	Reconductoring of Halflong (POWERGRID) – Jiribam (POWERGRID) 132kV S/c line with Single HTLS conductor of ampacity 600A (at nominal voltage level) (100.63km)	Assam	Improvement in reliability of Assam power system.

8	LILO of one ckt of North Lakhimpur – Dhemaji at 132kV Gogamukh (LILO to be implemented by AEGCL	Assam	Improvement in reliability and drawl cpability of Assam power system.
9	Reconductoring of Loktak (NHPC) – Imphal (POWERGRID) 132 kV S/c line with HTLS conductor with Ampacity of single HTLS as 800A (at nominal voltage) along with strengthening of associated structure in NHPC switchyard, if necessary. (36.60ckm)	Manipur	Improvement in reliability of Manipur power system.
10	Replacement of existing CT of 600-400-200/1A at Loktak HEP end in Loktak – Imphal 132kV S/c line with rating commensurate with ampacity (800A) of HTLS conductor.	Manipur	Full capacity of 132 kV Imphal-Loktak can be utilised after reconuctoring of line with HTLS.
11	Upgradation of Single Main and Transfer Bus to Double Bus arrangement with GIS at 132kV Khliehriat (POWERGRID) switching station	Meghalaya	Improvement in reliability of Meghalaya power system.
12	Reconductoring of Melriat (GIS) (POWERGRID) – Zuangtui (Mizoram) 132 kV ACSR Panther S/c line with Single HTLS conductor of	Mizoram	Improvement in reliability of Mizoram power system.

	900A (at nominal voltage level) (10.19ckm)		
13	Reconductoring of ISTS portion of Dimapur (POWERGRID) – Dimapur (DoP, Nagaland) 132kV (ckt-2) ACSR Panther S/c line with Single HTLS conductor of 800A – 0.335km	Nagaland	Significantly improve the reliability of Nagaland systems.80 MW increase in TTC/ATC of Nagaland.
14	Reconductoring of ISTS portion of Dimapur (POWERGRID) – Kohima (DoP, Nagaland) 132kV ACSR Panther S/c line with Single HTLS conductor of 800A – 0.335km.	Nagaland	
15	132 kV Rabindranagar-Rokhia	Tripura	Significantly improve the reliability of Tripura systems.30 MW increase in TTC/ATC of Tripura.
16	132kV Nangalbibra (ISTS) – Nangalbibra (MePTCL) D/c	Meghalaya	
17	132 kV Monarchak-SM Nagar D/C	Tripura	Significantly improve the reliability of Tripura systems.30 MW increase in TTC/ATC of Tripura.
18	132 kV Balipara-Misamari D/C		Relieve congestion in 220 kV Balipara-Sonabil D/C. Improve drawl capbility of Assam power system.
19	Reconductoring of TPTL portion of 132 kV SM Nagar (ISTS) – SM Nagar (TPTL) D/C line with HTLS conductor of		Significantly improve the reliability of Tripura

Deliberation of the sub-committee

Forum requested the concerned utilities to provide the updates through e-mail to NERPC and NERLDC.

2.10. Operational Planning and Resource Adequacy for March 2025

The Operational Planning and Resource Adequacy assessment for March 2025 is attached for review and comments.

Action Required:

- 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.

Deliberation of the sub-committee

Forum urged all the state utilities to review the report and provide inputs and also take necessary measures to ensure resource adequacy in the state for the month of March'25.

Further, NERLDC apprised the forum that NLDC has prepared the Resource adequacy assessment report for the FY 2025-26 and requested the states to provide comments on the same.

2.11. Procedure for Infirm Power Injection by Generators before COD

NERLDC presented the draft procedure for injection of infirm power by generators before COD in 221st OCC meeting. NEEPCO and NTPC opined that submission of intimation for injection of infirm power before COD 30 days prior is difficult subject to unexpected grid scenarios. The forum opined that generator can submit a tentative intimation 30 days prior and the final intimation to be shared in requisite format 15 days advance. The same has been included in the procedure (attached as **Annexure-2.11**).

The forum also advised all the stake holders to go through the draft procedure prepared by NERLDC and share the comments (if any) within 2 weeks. However, no comments have been received from NER stakeholders.

The procedure for injection of infirm power by generators before COD may be approved by the Forum.

Deliberation of the sub-committee

As no comments received from , NER stakeholders, forum approved the procedure.

AGENDA FROM POWERGRID

2.12. Requirement of outage for 400 KV D/C SILCHAR- P.K.BARI transmission line for diversion works due to road widening of KUMARGHAT-KAILASHAHAR road by NHIDCL

The span between tower location no 329 (DA+0) to 333 (DD+0) is to be diverted due to Kailashahar-Kumarghat road widening by M/S NHIDCL. The said diversion involves removing of 03 nos. of existing towers [Ext. Loc. 330 (DD+0), 331 (DD+0) & 332 (DC+0)] and installing of 05 nos of new towers [AP-1 (DD+6), AP-2 (DD+6), AP-3 (DD+0), AP-4 (DD+9) and AP-5 (DD+0)]. The details of route drawing enclosed as **Annexure-2.12**.

The foundation work of 02 nos. of new towers AP-1 & AP-2 have already been completed and other 02 nos. of towers namely AP-3 & AP-4 are in advance stage of completion and subsequently, AP-5 will be completed. In the meantime, the erection gang has already been deployed and erection of tower loc. AP-2 is in progress. Further, it is expected to complete the erection of AP-3 & AP-4 by Feb'2025 and the stringing of the span from AP-2 to AP-3 & AP-3 to AP-4 will be completed by 06/03/2025.

It may be mentioned that the new tower AP-1 & AP-5 has been spotted directly below the existing line and as such, the erection cannot be completed without shutdown of both the circuits. Therefore, to carry out the erection of new tower AP-1 & AP-5 and further, the de-stringing of existing line from Loc. 329 to 333

and stringing from loc. 329 to AP-1 & AP-5 to Ext. Loc 333 requires **continuous shutdown of both the circuits for 19 days from 07/03/2025 to 25/03/2025**.

Further, the possibility of shifting one circuit on ERS near ext. Loc 332 (DC+0) & 329 (DA+0) for facilitating the erection of AP-1 & AP-5 found not feasible due to the presence of habitant area nearby both the tower and presence of a school near Loc. 329. Moreover, it may also be mentioned that severe ROW was prevailing in this area and the work of diversion has been delayed for more than a year now and the current progress is only after the intervention from the highest level of state administration on disbursement of compensation of payment in advance.

Deliberation of the sub-committee

Forum noted the circumstances and nature of work and approved the shutdown subject to conditions mentioned by NERLDC below –

1. Availability of 400kV Silchar-Palatana DC line
2. Availability of 132kV P K Bari-P K Bari line

2.13. Requirement of outage for 400 KV D/C SILCHAR- P.K.BARI transmission line for balance work of vulnerable tower loc. 351 & 353

It may be mentioned that the tower loc. 353 & loc. 351 became vulnerable due to nearby river Manu and accordingly, 02 nos. of pile foundations were already constructed near Ext. Loc. 353 & Ext. Loc. 351.

On Feb'2024, 01(one) no. ERS was installed near loc. 353 and the erection of new-353 on pile foundation was completed, however, the balance work of erection at loc. 351 could not be carried out for unavailability of shutdown and moreover the ERS near loc. 351 could not be installed due the existence of habitant area in one side and the river on the other. As such, the **proposed continuous shutdown of both the circuits for 19 days from 07/03/2025 to 25/03/2025** will also be availed for erection of new-351(DD+3) on pile foundation including de-stringing of line section from ext. 350 to 354 and stringing from ext. 350 to ext. 354 through new-351 & new-353 on pile

foundation and dismantling of ext. loc. 351 & ext. 353 respectively. The details of route drawing enclosed as **Annexure-2.13**.

In view of the above, the shutdown of both the circuits of 400 KV D/C Silchar-P K Bari T/L is required for 19 days in the month of March' 2025 w.e.f 07/03/2025 to 25/03/2025.

Deliberation of the sub-committee

Refer to the deliberation in 2.12

2.14. Replacement of existing Busbar Protection at NEEPCO, Kathalguri under NERSS-XV Project

Under scope of ongoing North Eastern Region Strengthening Scheme-XV (Kathalguri-Namsai Transmission System), replacement of existing Static type Bus bar protection Relay with numerical Bus Bar protection Relay for existing bays and new bays is envisaged.

Accordingly, the replacement work is targeted for commencement w.e.f. 01/03/2025.

The new Busbar Protection shall cover existing 17 No. Bays & 2 New GIS Bays at NEEPCO Kathalguri end. For facilitating the replacement work, shutdown of the associated elements/ feeders shall be necessitated as per requirement of OEM in a phased manner. The entire activity is envisaged for completion by 25.03.2025.

Considering requirement of isolating the existing Bus Bar protection system & thereafter integration of multiple existing elements to the new Bus Bar Protection, POWERGRID, in consultation with OEM & NEEPCO shall prepare a detailed plan to optimize shutdown & present the same shortly for appraisal of NERPC, NERLDC and constituent State Utility. Subsequently, approval for shutdown is proposed to be sought on D-5/ D-3 basis.

Deliberation of the sub-committee

PowerGrid informed that an optimized plan has been prepared in consultation with NEEPCO and the same has been shared with NERLDC. Forum requested

NERLDC to undertake system study for the proposed shutdowns and approval to be issued accordingly.

2.15. Regarding objection by NEEPCO in Trial Operation of 132 kV Khliehriat – Khandong-1 & Khandong-Kopili-1 TL after upgradation to HTLS along with CT replacement at 132 kV Khliehriat (PG) & Khandong (NEEPCO)

For the above agenda item was discussed in 213th OCCM and subcommittee was deliberated to drop the agenda will be taken afterwards. The details of agenda as given below

First Time charging of following feeders were carried out after upgradation to HTLS conductors

1. 132kV Khliehriat – Khandong-1 TL along with CT replacement at 132kV Khliehriat (PG) on 30.03.2024.
2. 132kV Khandong-Kopili-1 TL along without CT replacement at 132kV Khandong (NEEPCO) on 09.05.2024

After completion of first-time charging, the TOC application was applied for the completed portion of work, However, NEEPCO has raised objection for issuance of Trial Operation certificate from NERLDC vide email dtd 16.04.2024 by stating that, CTs at Khandong end (NEEPCO)) has not yet been replaced by POWERGRID and it has already informed to the NERPC forum that before June'24, readiness of those lines will not be possible.

It is here by informed to forum that, Out of 9nos CTs, installation of 6 No's of CTs for Khliehriat-1 and Kopili-1 Bays were completed on 28.09.2024. Further balance 3nos CTs installation for Bus Coupler Bay was completed on 11.09.2024.
Approval for energization of the installed 9 Nos of CT's was given by RIO CEA vide Ref No: RIO/NER/PG/KHANDONG-295/615 Dated 04.12.2024.

In view of the above, as per project scope of work under NERSS-XIX and as per Minutes of 11th CMETS NER dtd 29/09/2022 page no.08 , the scope of

work in *132 kV Khliehriat – Khandong-1 & Khandong-Kopili-1 TL completed and requested to allow for the issuance of Trial operation certificate from NERLDC.*

Deliberation of the sub-committee

PowerGrid apprised that the it has completed its scope of work and CTs at Khandong have been replaced accordingly. NEEPCO stated that they have agreed for the TOC and will provide the consent through mail. Forum advised NERLDC to issue TOC accordingly.

2.16. Outage of 20 MVAr Bus Reactor at Aizawl S/s reg

As per 200th OCCM agenda point C.14, Natural Ester premium Grade oil supplied by the by M/s APAR Industries instead of Transformer Mineral Oil has been used with consent of OEM of the 20MVAR Bus Reactor (25 Years old equipment) at Aizwal SS on Pilot project basis first time in India.

During recent oil parameter testing, the water content (PPM) increasing gradually in the above reactor and same was reached from 20PPM to 90PPM and higher Winding Tandelat values on Testing

Further same was referred to the M/S APAR Industries and the OEM (M/s APAR) has recommended to carry out the following on urgent basis as a part of the system improvement:

- Oil Sample shall be taken in presence of M/s Apar Industries before Hot oil circulation and same to be sent to CIOTL, Hyderabad.
- LV Tests in presence of M/s Apar Industries representative
- 3-4 Cycles of Hot Oil Circulation in presence of M/s Apar Industries representative.
- Oil Sample after Hot oil circulation and same to be sent to CIOTL, Hyderabad.
- After achieving the water content within permissible limits <20PPM, LV Tests to be repeated.
- Charging of the Reactor.

In view of the above and for carrying out above works for system improvement & prevent unwanted damage in the equipment which may lead to prolonged outage, the shutdown of 20MVAR Bus Reactor was taken on 30.01.25 on emergency basis and requires the shutdown of 20MVAR Bus Reactor at Aizwal Ss up to 20.02.2025 18:00Hrs.

Deliberation of the sub-committee

Forum noted that use of Natural Ester oil at the place of Mineral oil in the transformer is system improvement work and had approved the original shutdown for the work in the 200th OCCM. Further, NERPC highlighted that the further shutdown caused due to violations observed in oil parameter testing has to be properly justified by Powergrid for considering the outage under system improvement category. PowerGrid assured to provide the necessary justification for the same shortly.

AGENDA FROM NETC

2.17. NERPC Sub-group Report on the vulnerable tower locations of 400 kV D/C Palatana-Silchar Transmission Line of NETC

NERPC Sub-group Report on the vulnerable tower locations of 400 kV D/C Palatana-Silchar Transmission Line of NETC is hereby presented for the consideration of the forum (**Annexure 2.17**). This report was prepared based on the site visit of the sub-group at Agartala on dated 20.01.2025 & 21.01.2025 as per recommendation of the 218th OCCM.

Deliberation of the sub-committee

Forum stated that the report will be attached with the minutes of the meeting and circulated to the state utilities for review/comments. Further, the forum stated that states have to be provide comments, if any, within 10 days of circulation of the minutes.

AGENDA FROM DOP AR. PRADESH

2.18. Reconductoring of 132 kV Transmission Lines with HTLS Panther

Reconductoring of 132 kV Transmission Lines with HTLS Panther (900 A) Conductor Transmission Lines Identified for Reconductoring:

a) 132 kV Panyor Lower HPS – Ziro S/C Transmission Line (PGCIL-ISTS)

b) 132 kV Ziro – Daporijo S/C Transmission Line (STS)

c) 132 kV Daporijo – Basar S/C Transmission Line (STS)

d) 132 kV Basar – Aalo S/C Transmission Line (STS)

e) 132 kV Aalo – Pasighat S/C Transmission Line (STS)

The 132 kV Panyor Lower – Pasighat Transmission Network forms the backbone of power supply to the central and eastern districts of Arunachal Pradesh. The existing single circuit transmission system, constructed in 2005, shall be inadequate to cater the anticipated increase in power demand at these nodes, particularly due to upcoming construction power requirements at Daporijo and Aalo. With no upcoming alternate feeds at Daporijo and Aalo, the transmission systems connected to these nodes must be strengthened to effectively meet the increasing demand and ensure reliable power supply.

The Central Electricity Authority (CEA), in its report "Transmission System Requirement of North Eastern States and Sikkim by the Year 2031-32" (published in October 2024), has acknowledged the criticality of this network and specifically recommended the reconductoring of the Panyor Lower – Ziro and Ziro – Daporijo lines with HTLS Panther conductor to accommodate the projected load growth. To prevent transmission bottlenecks, it is essential that the reconductoring of the entire corridor from Panyor Lower to Pasighat be undertaken simultaneously, enabling a comprehensive and reliable strengthening of the network.

The proposed reconductoring will mitigate overloading risks, improve thermal stability, and enhance network resilience, ensuring a more reliable power supply to the region. Accordingly, the proposal for reconductoring of the identified transmission lines is submitted for approval by the forum/RPC.

Deliberation of the sub-committee

The forum referred the point no 'a' to CMETS for further action and requested NERLDC to conduct studies for the point no 'b', 'c', 'd' and 'e' and present in next OCC. NERLDC requested Arunachal Pradesh to submit nodewise details of upcoming load and generation project which is expected by 2030.Forum noted that the based on NERLDC reports the forum will recommend for the upgradation and will forward the recommendation to CEA for approval.

2.19. Regional Capacity Building enhancements through overseas trainings under the aegis of NERPC with Central/DONER funding.

With rapid advancements in power sector technologies and increasing complexity in grid management, continuous skill development is essential to ensure efficient operations and system reliability. As significant power infrastructure is being developed under the Government of India-funded NERSIP and CSST&DS schemes, it is imperative to equip the workforce with the expertise required for the seamless integration, operation, and maintenance of these assets. Exposure to global best practices and emerging technologies through overseas training programs will further strengthen regional capacity, enabling professionals to adopt advanced techniques in transmission, distribution, and system planning. To support this initiative, training programs may be proposed under the aegis of NERPC, and request Ministry of Power or the Ministry of DoNER, Govt. of India, for funding the scheme. In case of extreme reluctance of the Govt. of India we may propose for 50:50 funding arrangement between the Centre/DONER and the NER States, to ensure a well-prepared technical workforce to meet the region's evolving power sector challenges.

Deliberation of the sub-committee

MS NERPC informed that capacity building project (overseas study tour) for NER constituents is already being taken up with the PSDF by NERPC.

Agenda from AEGCL

2.20. Issue with North East Regional Power system Improvement Project

The NERPSIP scheme is a major step towards economic development of North Eastern Region through strengthening of Intra – State Transmission and Distribution Power systems. Implementation of the scheme will create a reliable power grid and improve NER's connectivity to the upcoming load centres and thus extend the benefits of the grid connected power to all categories of consumers in North Eastern Region.

Under NERPSIP Enhancement/Augmentation of Transmission System for AEGCL is listed below:

❖ Setting up of 11 new EHV Substations and associated 12 EHV Transmission Lines. An additional 1198 MVA of power handling capacity would be added to the AEGCL's network after completion of the projects.

❖ Augmentation/Extension of 9 Existing EHV Substations which includes increase in the capacity of Power transformers at Samaguri GSS and Dhaligaon GSS by 470 MVA.

❖ Installation of 548 km Optical Ground Wire (OPGW), which will enhance the communication link between the grid substations.

<u>Major issues for booking of asset by AEGCL against elements constructed under NERPSIP</u>

The financial documents that are necessary for capitalization of assets, have not been handed over to AEGCL by POWERGRID. And as such the commissioned elements constructed under NERPSIP (Already handed over and yet to be handed over to AEGCL) have not been booked under AEGCL's asset. This has resulted to financial loss of AEGCL as the commissioned elements could not be reflected in AEGCL's Tariff. Page 2 of 13 In addition, majority of the list of pending works that were recorded in the punch points

during signing of TOC have also not been addressed by POWERGRID. The matter regarding the same has been informed to POWERGRID several times both from AEGCL (HQ) and AEGCL field officials and although some of the issues have been resolved, majority of the issues are yet to be resolved. The status of works and list of pending works that have not been resolved are enclosed as **Annexure 2.20**.

Intervention sought

The elements constructed under NERPSIP have already been commissioned in phase manner and are in operation. As the assets have not been capitalized and also pending works in the commissioned elements have not been completed, AEGCL request intervention of OCC forum so that the elements constructed under NERPSIP may be booked under AEGCL's asset and also the pending works as well as major issues are resolved.

Deliberation of the sub-committee

Forum noted the concerns of AEGCL and also noted that since NERPSIP is not present in the meeting. Further, Forum advised AEGCL to bring up the matter in next OCC in the presence of NERPSIP team. NERPSIP team advised to attend the meeting.

Agenda form NERPC

2.21. Mismatch between RTU-SCADA real time data and IEM data

The matter was deliberated in the 15th NPC, wherein, the sub-committee under the chairmanship of MS WRPC, which was constituted to to look into the issue SCADA vs SEM mismatch, reason thereof and also study the pilot project being done by MP presented its report (**annexure 2.21**) to the NPC forum.

MS, WRPC informed that the sub-committee had deliberated extensively, and the following recommendations have been made:

i. The difference between the SCADA and SEM data is causing appreciable financial implications for the beneficiaries in form of DSM charges. Therefore,

integration of SEMs with SCADA must be done to ensure better management of drawl from the regional grid by a beneficiary. However, states may take a call on this as per their own assessment.

ii. The only way to minimize the mismatch is to fetch the data from the same source (i.e. from SEM).

Iii. The pilot project carried out by MPPTCL is comparatively better than GETCO as it involves lesser cost and lesser fiddling with existing SEM configuration and therefore, it should be followed in other parts of the country.

iv.The proposed implementation is not in violation of any regulatory provisions.

v. The expenditure of the projects (estimated as about 2 crores for a state) should be borne by the beneficiaries as its associated benefit is comparatively more.

vi. The data fetched from SEM to SCADA may be used only for making operational decisions and may not to utilized for raising commercial disputes.

vii. It is technically feasible to provide real time data (MW/instantaneous) data to SLDC from the RTU/SAS-based substations. However, the meters not supporting MODBUS feature need to be replaced.

viii. In SAS-based system, installing a new mini RTU is the most appropriate solution.

ix. In the existing AMR system, the best way to share real time SEM data is by augmenting the system and running a software application on a backup data server for sharing data through Intranet.

x. The new AMR system, once it comes, will have the provisions of displaying data to RLDCs as well as SLDCs.

Member (GO&D), CEA suggested that Study Report may be circulated to the stakeholders for implementation at the state level and SCADA point accuracy

shall be ensured by STUs/ entities in coordination with SLDCs/ RLDCs. The states may adopt the proposed methodology as per their preference.

Chairperson, CEA/NPC suggested that location of SEM data and SCADA data should be the same to further reduce errors. He recommended that the necessary changes be incorporated into the final report. Further, he suggested that RPCs should deliberate on the reported discrepancy between SCADA and SEM data, and work towards resolving them. RLDC should identify each SCADA point with discrepancies, and RPCs may address these issues in a separate special meeting.

Following decisions were taken in the NPC meeting -

i) The Report on the mismatch between RTU-SCADA real-time data and IEM data may be modified to include the condition that the locations of the SCADA data and IEM data must be the same, and the report may be circulated to all stakeholders for implementation at the state level as per their preferences. (Action: WRPC)

ii) Detailed deliberation is required at the RPC level to address reported discrepancies between SCADA and SEM data, with the aim of minimizing errors and ensuring data accuracy. (Action: All RPCs)

In light of the decisions taken in the 15th NPC meeting the report of the sub-committee (mentioned above) is hereby presented for discussion (annexure 2.21) and the utilities are requested address reported discrepancies between SCADA and SEM data with the aim of minimizing errors and ensuring data accuracy.

Deliberation of the sub-committee

The forum noted that the discrepancies between SCADA and SEM data is a serious problem in NER also.

NERLDC informed that the peak instantaneous mismatch between the data for some states go upto 24%, while the average mismatch goes upto 0.70%. The forum opined that this mismatch may have serious implication on the Deviation quantum (difference between actual drawl and scheduled drawl)

and thus DSM accounts of states and also cause operational challenges like frequency management.

The forum requested NERLDC to calculate the deviation account taking SCADA data at the place of SEM data for a sample state for a sample month to provide quantitative insight into the difference caused by the SCADA vs SEM mismatch.

Finally, the forum advised the states to integrate the SEM data to SCADA for real time display of the drawl quantum as per the methodology mentioned in the reports after doing cost-benefit analysis.

3. PART-C: METERING ITEMS

3.1. Procurement of SEMs for future requirements:

92 no. of SEMs may be procured to take care of future requirement (upto FY 2027) and to maintain spares. Estimation of the requirements is given below:
As per records received from different meetings (schemes approved in CMETS-NER, OCCMs, NCT, NERPC-TP/ NERSCT/ SCPSP-NER, NERPSIP, CTADS):

Location/STATE	**Element name**	**No of Meters**
Arunachal Pradesh	132 kV Pasighat - Roing 2	2
Arunachal Pradesh	132 kV Roing - Tezu 2	2
Arunachal Pradesh	132 kV Tezu - Namsai 2	2
Arunachal Pradesh	1x50MVA, 132/33kV (3rd) ICT at Namsai (POWERGRID) S/s	2
Arunachal Pradesh	132 kV Namsai - Miao	2
Arunachal Pradesh	132 kV Halaipani - Tezu	2
Arunachal Pradesh	132 kV Roing - Dambuk	2
Ngaland	New Kohima (TBCB) – New Kohima (Nagaland) 220kV D/c line	4
Meghalaya	Nangalbibra (MePTCL) end of Nangalbibra (ISTS) 132kV D/c	2
Assam	LILO of both circuits of Bongaigaon – Balipara 400kV D/c (Twin Moose) line at Rangia	4
Assam	Khumtai (AEGCL) – Biswanath Chariali (PG) 400kV D/c line	4

Assam	LILO of Silchar (PG) – Byrnihat (MePTCL) 400kV S/c line at Sonapur	2
Tripura	LILO of both circuits of Surajmaninagar (ISTS) – Palatana 400kV D/c line at Surajmaninagar (TPTL)	3
Nagaland	LILO of one ckt of Misa-Dimapur 220kV D/c at Zhadima	2
Arunachal Pradesh	400 kV Lower Subhansiri end of BNC D/C (2 lines)	4
Assam	LILO of one D/c line (ckt-1 & ckt-2 of line-1) of Lower Subansiri – Biswanath Chariali 400kV 2xD/c at Gogamukh	4
Assam/ Arunachal Pradesh	Gogamukh (ISTS) – Gerukamukh (Arunachal Pradesh) 132kV ACSR Zebra D/c line	4
Assam	400/220kV, 2x500MVA ICTs at Gogamukh	4
Assam	220/132kV, 2x200MVA ICTs at Gogamukh	4
Assam	Bihupuria (AEGCL) – Gogamukh (ISTS) 220kV D/c line	4
Assam	LILO of one ckt of North Lakhimpur (AEGCL) – Dhemaji (AEGCL) 132kV new D/c at Gogamukh	8
Assam	LILO of both circuits of Misa (POWERGRID) – New Mariani (POWERGRID) 400kV D/c line at Bokajan	4
Arunachal Pradesh	Lower Subansiri GTs	8
Arunachal Pradesh	Lower Subansiri ICTs	4
Arunachal Pradesh	Lower Subansiri STs	2
Assam	220 kV Salakati - Alipurduar D/C LILO at Gosaigaon	4
	Total	**89**

Location/STATE	OLD Locations and Elements having no meters:	
Tripura	PALATANA 3 METERS (400/132 kV ICT 2 HV & LV side, 400/132 kV ICT 1 LV Side)	**3**
Assam	BALIPARA 400/220KV(LV) ICT-1	**1**
Arunachal Pradesh	HV side of ICT 1 & 2 at Panyor Lower HEP	**2**
Arunachal Pradesh	LV SIDE OF 400/132KV KAMENG ICT-1	**1**
Assam	KHANDONG END OF 132KV KHLRT-1	**2**
Assam	KHANDONG END OF 132KV KOPILI-1	**2**
Assam	HV side of KHANDONG GTs	**2**
Arunachal Pradesh	132 kV Pasighat - Roing 1	**2**
Arunachal Pradesh	132 kV Roing - Tezu 1	**2**
Arunachal Pradesh	132 kV Tezu - Namsai 1	**2**
Arunachal Pradesh	132 kV Ziro - Daporijo	**2**
Arunachal Pradesh	132/33kV ICT at Ziro (PG)	**2**
Arunachal Pradesh	2x132/33 kV Ict at Roing	**4**
Arunachal Pradesh	2x132/33 kV Ict at Tezu	**4**
Arunachal Pradesh	2x132/33 kV Ict at Namsai	**4**
	Total	**35**

Meter Requirement	**124**
Spare (15%)	**19**
Total(with spare)	**143**

Existing Meters	**51**
New Meters Required	**92**

Forum approved the estimate of future requirement of SEMs (92 nos.) upto FY 2027.

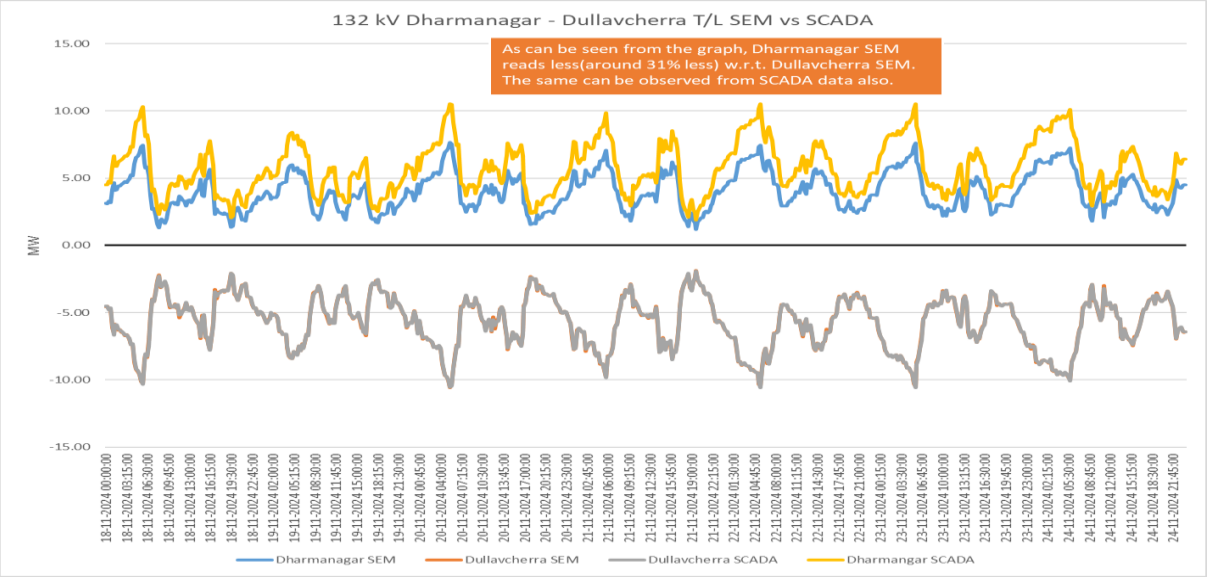
However, MS NERPC stated that henceforth, estimate of SEMs should be done in consultative manner, involving NERPC and concerned utilities, before presenting in the OCC.

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 Vinplus Software had been mentioned by Tripura in the previous OCCM. 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.

Forum may please Discuss.



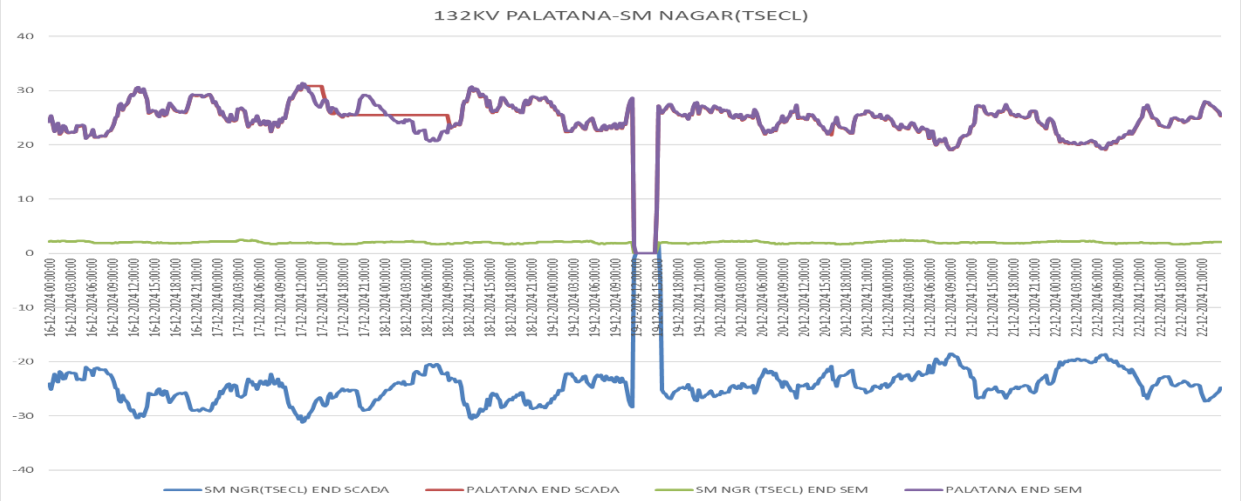
Deliberation of the sub-committee

Matter could not be discussed as Tripura was absent in the meeting.

3.3. Issue in SEM data of 132 kV SM Nagar (TSECL) end of Palatana Fdr. (400 kv T/L charged at 132 kV):

Weekly SEM data of 132 kV SM Nagar (TSECL) is essential for accounting of Tripura Drawal. Recently, Planned Shutdown was availed dated 02-12-2024 for Installation of ABT meter under SAMAST Project at SM Nagar end. On return of S/D, meter for SM Nagar end was reading close to zero (0). On intimation of the same to utility, S/D was availed again on 19-12-2024 to resolve the issue. However, the same could not be resolved. Tripura & POWERGRID may kindly look into the issue on priority basis.

In 222nd OCCM, forum advised Tripura to resolve the same by next OCCM. The same is yet to be resolved. Tripura may kindly update status.



Deliberation of the sub-committee

Matter could not be discussed as Tripura was absent in the meeting.

3.4. 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 222nd OCCM, Manipur apprised the forum that the problem in downloading data from DCD
to laptop still persists. PGCIL agreed to help Manipur in resolving the issue.

Deliberation of the sub-committee

Forum requested Powergrid to assist Manipur to rectify the issue. Manipur to send Laptop along with DCD available at Tipaimukh to Aizawl PG S/S for rectification.

3.5. Issue in Receipt of Data from Luangmual S/S

Weekly SEM data from 132 kV Luangmual(Mizoram) Substation is important for accounting of Mizoram drawal. However, SEM data for said substation is not being received since 11/11/2024. Issue with licence of Vinplus Software in Designated laptop has been reported by the concerned Substation.

In 221st OCCM, forum advised Mizoram to take up the matter with L&T and resolve the issue by next OCCM.

In 222nd OCCM, Mizoram apprised the forum that the issue with licence of Vinplus Software in designated laptop has not been resolved yet and SLDC Mizoram is taking up the matter with M/s L&T. PGCIL also agreed to help Manipur in resolving the issue. Data is yet to be received from said Substation.

Deliberation of the sub-committee

NERLDC updated that the issue has been resolved.

3.6. 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. Tripura may intimate present status of the same.

Deliberation of the sub-committee

Matter could not be discussed as Tripura was absent in the meeting.

3.7. 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 221st OCCM, Tripura confirmed the receipt of 3 nos. of DCDs and that the same have been dispatched to Dharmanagar, Ambassa and SM Nagar(State) S/Ss. Tripura further intimated that the remaining works shall be completed by 21/12/2024 and the meters shall be reporting successfully from 23/12/24.

In 222nd OCCM, forum requested Tripura to resolve the issue by next OCC meeting.

However, data is yet to be received from concerned utilities on weekly basis.

Deliberation of the sub-committee

Matter could not be discussed as Tripura was absent in the meeting.

4. PART-D: ITEMS FOR UPDATE/FOLLOW-UP

4.1 Implementation/Review of Islanding schemes of NER:

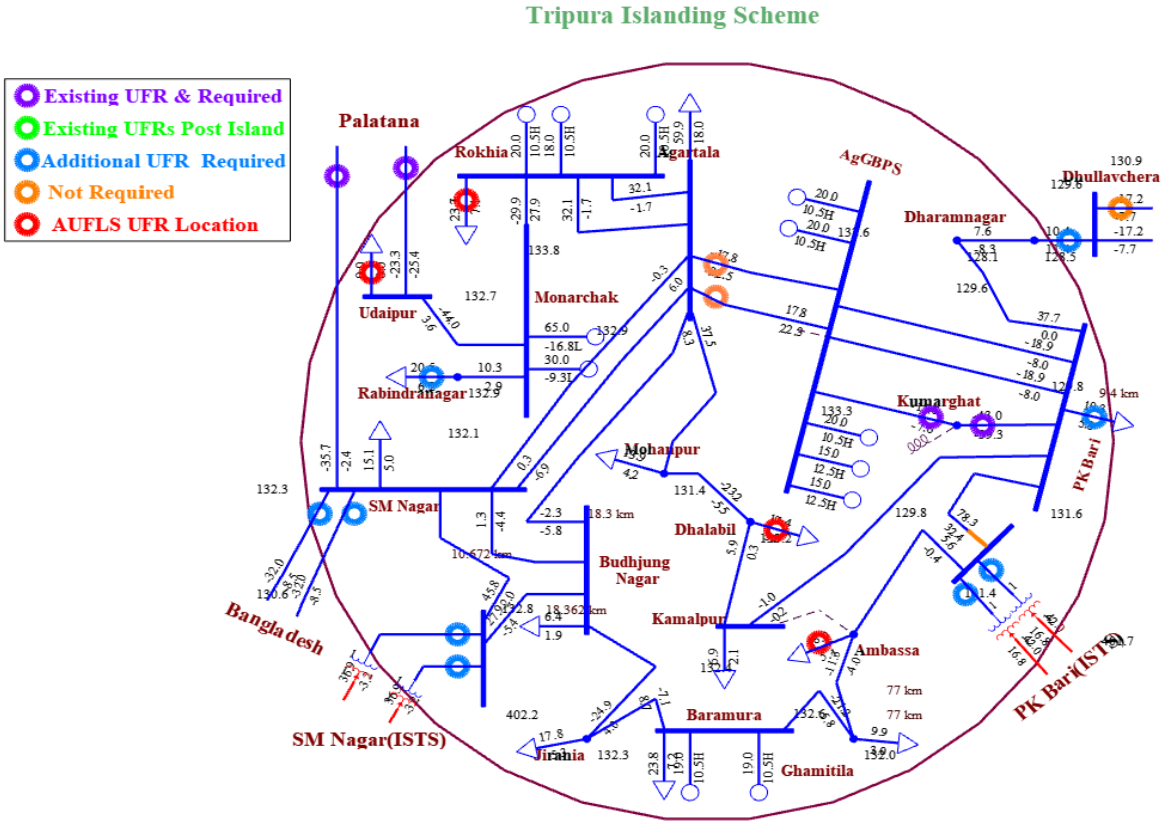
As per Clause 10 of the Central Electricity Authority (Grid Standards), Regulations, 2010: "Islanding Schemes- (1) The Regional Power Committees shall prepare Islanding schemes for separation of systems with a view to save healthy system from total collapse in case of grid disturbance. (2) The Entities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

A. Guwahati Islanding Scheme

Assam updated that modified DPR has been sent to PSDF.

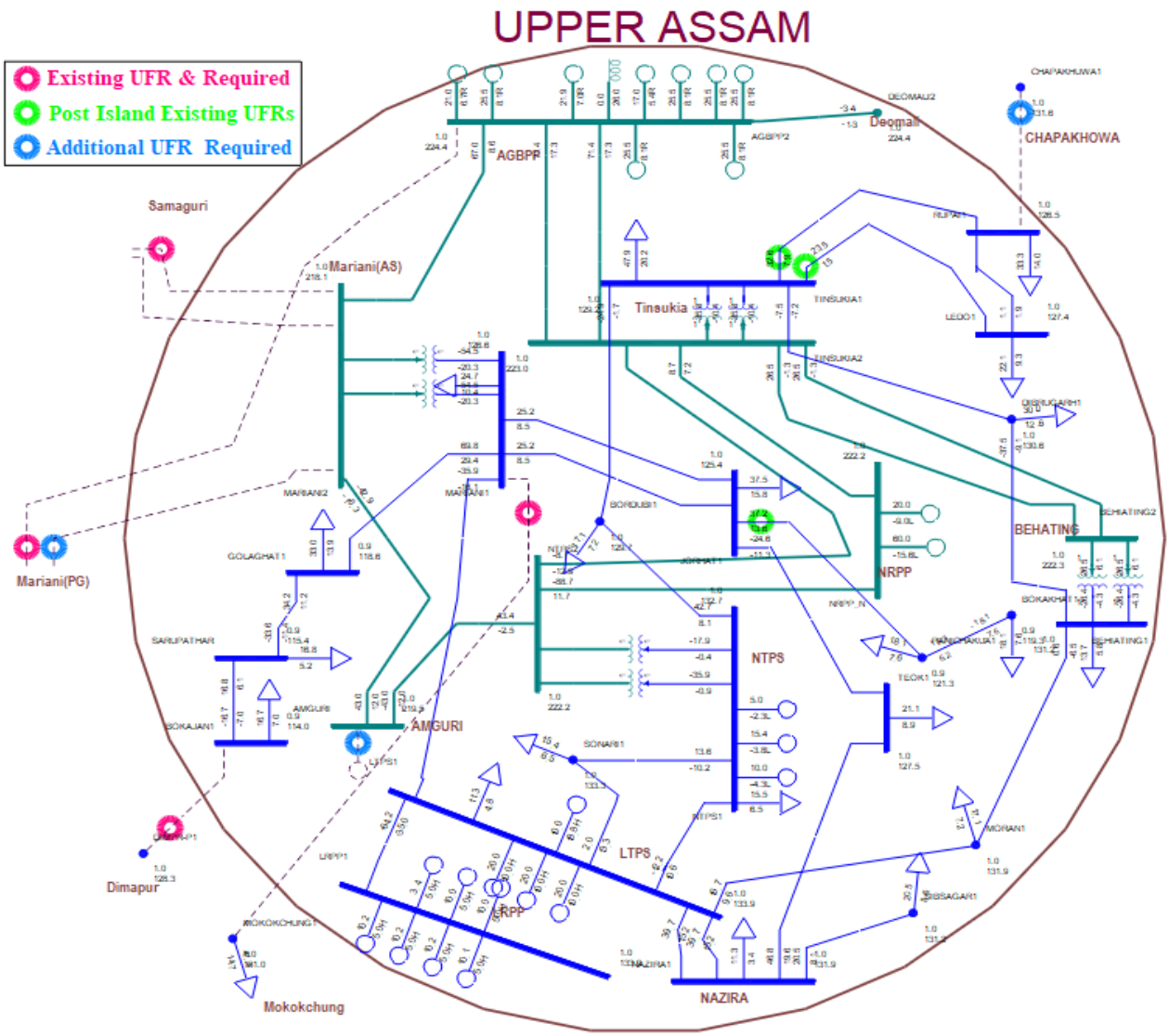
B. Tripura/Agartala Islanding Scheme

NERLDC apprised the forum that all the data has been received from Tripura. Dynamic study has been completed and Load-Generation study is under way.



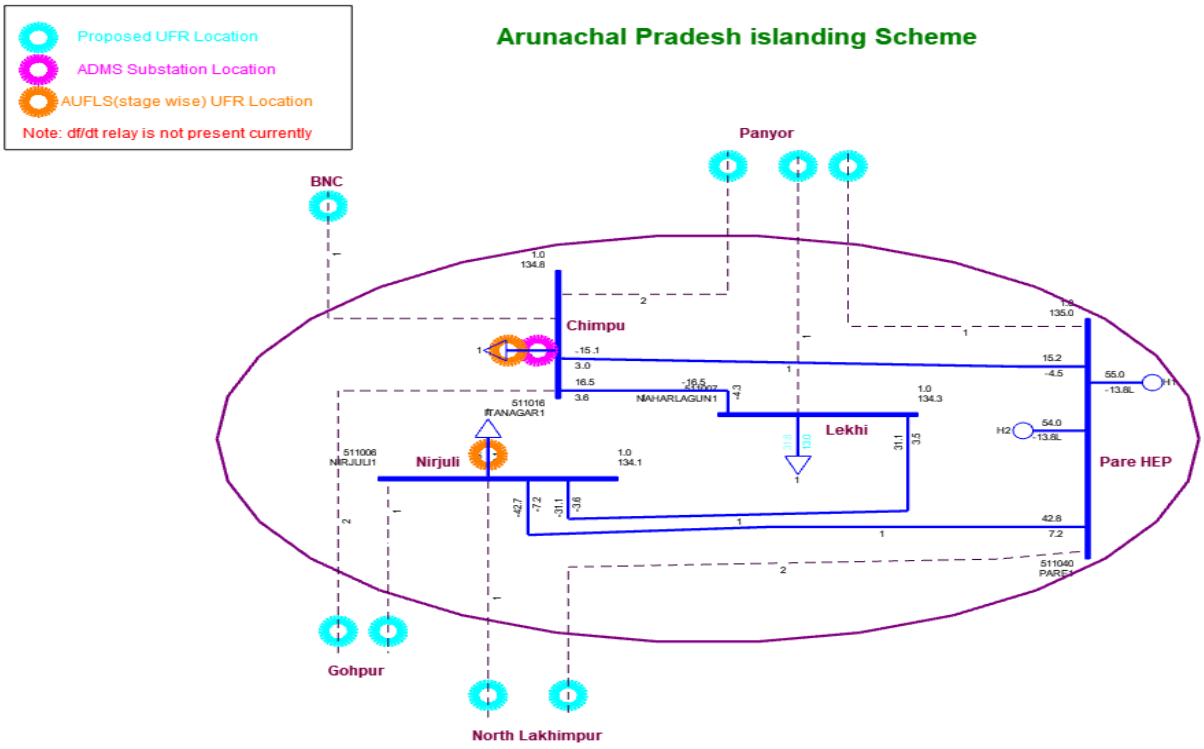
C. <u>Upper Assam Islanding Scheme</u>

NERLDC apprised the forum that dynamic study as well as Load-Generation study has been completed. However, NEEPCO is required to submit the UFR settings for 2 nos. of units of AGBPP. NEEPCO agreed to submit the information at the earliest. Assam may prepare the DPR post submission of data by NEEPCO.



D. <u>Itanagar Islanding Scheme</u>

NERLDC apprised the forum that all necessary study has been completed. Arunachal Pradesh may prepare the DPR for Itanagar Islanding Scheme.



For activation of Itanagar Islanding Scheme Activation. Following are the actions need to be taken as per the meeting whose status may be updated by utilities:

1. Regarding the UFR settings (48.2 Hz with a time delay of 300ms) at the locations detailed below the following updates have been made in 222nd OCC forum:

Sl. No	UFR Location	Implementing Agency	Status Update (as per 222nd OCC)
1	132 kV Panyor HEP-Pare HEP line at 132 kV Panyor HEP	NEEPCO	Completion by 17/01/25
2	132 kV Panyor HEP- Itanagar line at 132 kV Panyor HEP	NEEPCO	Completion by 17/01/25

3	132 kV Panyor HEP-Lekhi line at 132 kV Panyor HEP	NEEPCO	Completion by 17/01/25
4	132 kV Itanagar-BNC line at 132 kV BNC	PGCIL	Will be completed by this week.
5	132 kV Itanagar-Gohpur line at 132 kV Gohpur	ASSAM	Will be completed by first week of February-25.
6	132 kV Nirjuli-Gohpur line at 132 kV Gohpur	ASSAM	Will be completed by first week of February-25.
7	132 kV Nirjuli-North Lakhimpur line at 132 kV North Lakhimpur	MUML	Could not be discussed as representative of MUML was absent.
8	North Lakhimpur - Pare HEP line at 132 kV North Lakhimpur	MUML	Could not be discussed as representative of MUML was absent.

2. **SPS Implementation at Pare HEP**: SPS for tripping of one unit of Pare in case of two units are running is to be implemented- ***NEEPCO intimated the forum that the SPS logic at Pare HEP has been completed and duly shared with NERLDC.***
3. **UFR Post-Island Formation**: UFR setting at SMS and Salasar feeders is to be changed to 48.0 Hz and 47.8 Hz (instantaneous trip) respectively. Also, an additional feeder of around 5 MW is to be identified as an UFR post island and to be set at 47.7 Hz instantaneous

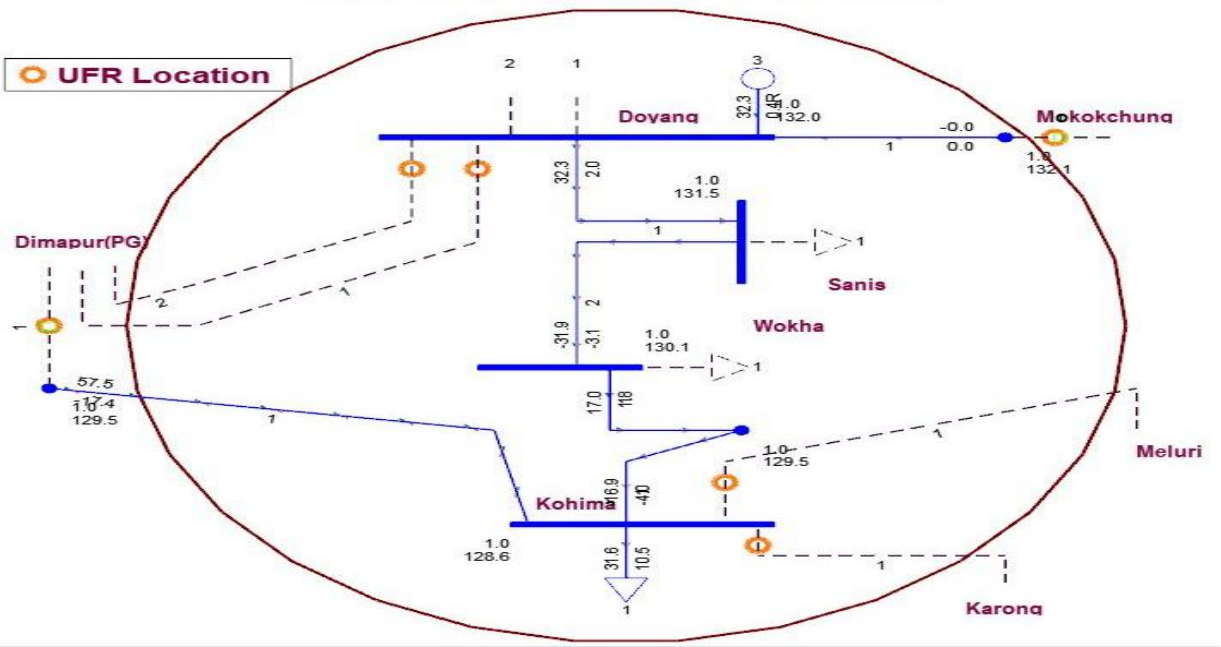
trip. -***DOP, AP updated the forum that additional feeders have been identified.***

4. The UFR for post Island Formation were for AUFLS purpose that quantum of load is to be shifted outside the island for AUFLS defence mechanism.

   The forum in principle agreed the AP islanding scheme (Itanagar islanding scheme) which will be implemented and operational by next month onward.

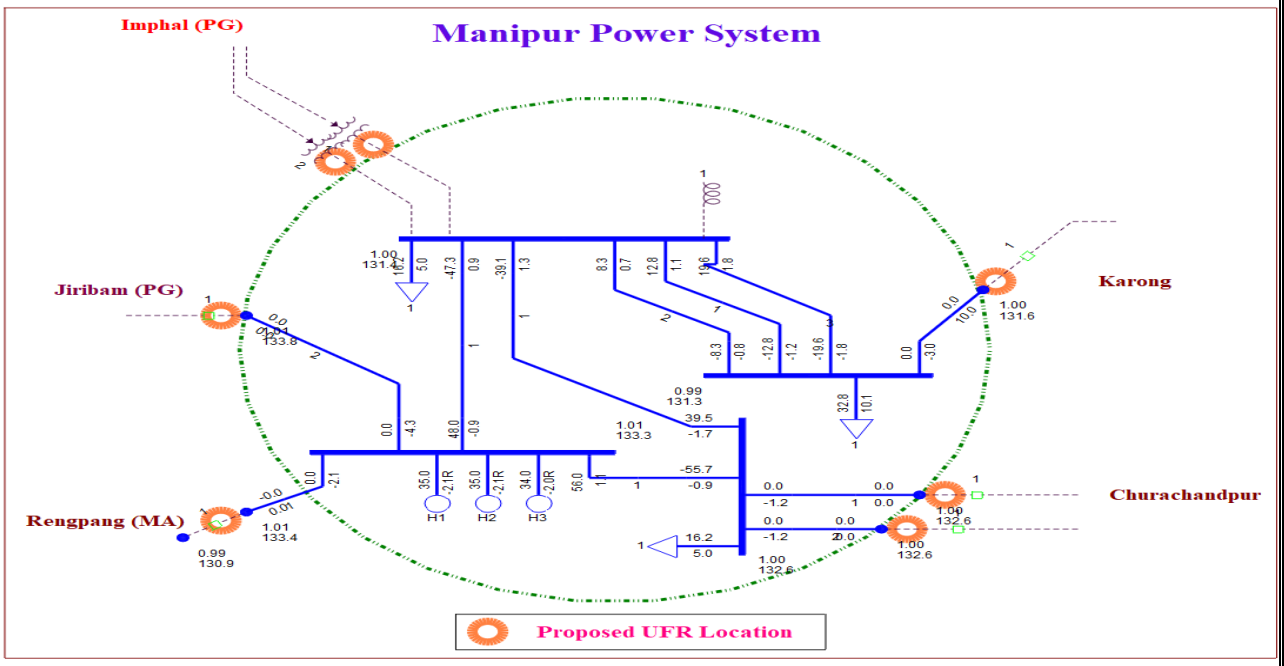
E. <u>Kohima Islanding scheme</u>

NERLDC apprised the forum that dynamic data has not been received from Doyang completely. As such dynamic study is pending. NEEPCO agreed to share the data at the earliest to NERLDC.



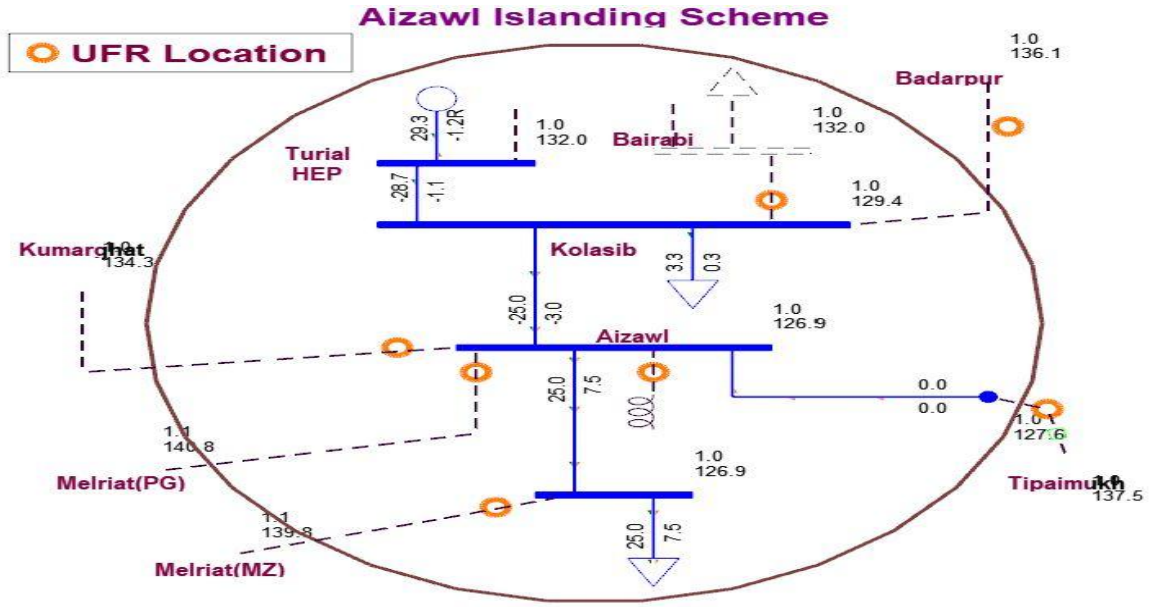
F. <u>Imphal Islanding scheme</u>

NERLDC apprised the forum that data from NHPC Loktak has been received. Manipur has identified the 33 kV feeders but are yet to share load-generation data for the identified feeders. Dynamic study is going on.



G. Aizawl Islanding scheme

NERLDC apprised the forum that dynamic data has not been received from Turial. NEEPCO agreed to share the data at the earliest. Mizoram also intimated the forum that exploration for a change in feeders is under way as per priority. Load-generation data for such feeders shall have to be shared with NERLDC.



H. Meghalaya/Shillong Islanding Scheme

Meghalaya apprised the forum that the old machine at Umium stage III is being replaced with a new machine. As such, NERLDC requested Meghalaya to share dynamic data for Umium Stage I, Stage II and Stage IV and also for New Umtru.

Deliberation of the sub-committee

Regarding Guwahati Islanding scheme, AEGCL informed that some queries have been raised by TESG committee and the same are being replied to.

Regarding Upper Assam Islanding scheme, NERLDC updated that the scheme and workplan has been finalized in the meeting held on 17.02.2025 with stakeholders, only implementation is left. NERLDC stated that gist of meeting and workplan is attached herewith (**annexure 4.1**). Forum requested the utilities to implement the scheme at the earliest.

Regarding Itanagar Islanding scheme, NERLDC updated that all the concerned utilities except AR. Pradesh have completed their scope of work. Representative form Ar. Pradesh updated that their scope of work is being undertaken by the transmission wing and update will be provided shortly through mail

Regarding Shillong Islanding scheme, NERLDC updated that the dynamic data of concerned generators have been shared and dynamic study is under process.

Further, NERLDC apprised that Shillong islanding and Tripura islanding will be finalised shortly.

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

Status as updated till 222nd 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) will be carried out by end of Oct'24. 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 underway, to be completed by Aug'24.	Mapping is pending from substations end, which is being hampered due to Law & Order situation in the State. It is in the last stage of integration (90%) and will be completed by Aug'24.
Meghalaya	Completed	Completed
Mizoram	Completed	Coordination with GE is underway for mapping, completion by Sep'24.
Nagaland	Completed	Completed
Tripura	Completed	All mapping done except for Ambassa SS due to communication link issue. To be done by next NeTEST meeting.

Forum noted the status updated as provided in the above table.

As deliberated in 15th meeting of NPC held on 14.12.2024 against Agenda 6: "Report on Automatic Under Frequency Load Shedding (AUFLS) and df/dt scheme:" Quote: "The following quantum of load relief settings of AUFLS scheme for year 2024- 25 were approved by the Committee:

State	Stg I (MW)	Stg II (MW)	Stg III (MW)	Stg IV (MW)
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**

"The implementation of the AUFLS and df/dt schemes must be completed by March 2025. RPCs are required to regularly monitor the implementation of the UFR scheme as a whole including the bulk consumers connected at the ISTS level. RPCs may communicate above decisions to the respective States for implementation."

SLDCs are requested to conduct meetings with their DISCOMs to find solutions for feeder mapping and expedite the same. It was also decided in the NPC meeting:

i) The AUFLS scheme must ensure Pumped storage hydro plants operating in pumping mode or ESS operating in charging mode shall be automatically disconnected before the first stage of UFR.

ii) Bulk consumers connected to ISTS and STU networks must implement the UFR scheme. Compliance should be ensured during the grant of connectivity by CTU and STU.

Status as per 222nd/221st OCCM -

Assam representative apprised the forum that the new AUFLS scheme has been completed.

Manipur apprised the forum that the scheme shall be implemented by June-25.

Meghalaya apprised the forum that the scheme has been finalised and rearrangement of loads is required in stages I,II and III & IV, The work shall be completed by the next OCC meeting.

Mizoram apprised the forum that the new AUFLS scheme has been completed.

Tripura apprised the forum that the work shall be completed by the next OCC meeting.

Arunachal Pradesh apprised the forum that the loads have been identified and approval is pending. AP, SLDC also apprised the forum that since RTU is not available at Bandardua for mapping, it is proposed to shift the loads to Nirjuli substation.

Deliberation of the sub-committee

Meghalaya updated, regarding implementation of revised load quantum in AUFLS, that feeders have been identified and the work will be completed by next OCC meeting.

Mizoram updated, regarding mapping of feeders, that communication with GE is underway and work will be completed by March'25

DoP Ar. Pradesh updated that loads have been identified and approval is still pending from competent authority. Further, regarding mapping of feeders, he updated that communication system is available at the concerned substations but the UFR feeders have not been integrated with RTU. MS NERPC stated that a letter will be written to competent authority to resolve integration issues and ensure mapping of feeders.

4.3 Long Outage of NER State Generator and transmission lines:

The following NER State generators and Transmission lines are under long outage since long time. Considering the increasing demand trend and reliable power supply in the Region, respective utilities are requested to take necessary action to restore the mentioned units as follows:

Element Name	Outage time	Reason	Expected date
LTPS Unit 7	08-04-2024	Due to high vibration	-
Baramura Unit 5	26-03-2024	Gas fuel hydrolic trip low.	March'25
Rokhia Unit 8	02-05-2024	Hand Tripped due to low Gas Pressure	-
Baramura Unit 4	05-06-2024	Manually opened as there is issue in display, erroreous data was coming.	March'25

Kameng Unit 2	17-06-2024	Damage in the stator core & bar, and also on rotor poles due to dislodging of 1no. V-block	March'25
Rokhia Unit - 7	06-11-2024	Leakage in Heat Chamber	-

Transmission Lines

Element Name	Outage time	Reason	Expected date
400 kV Imphal - Thoubal I	18-10-2021	Tripped on DP, ROW issue.	-
132 kV Kohima - Meluri	27-09-2023	S/D taken by Kohima trans. Div. for dismantling of Tower no. AP 130	-
132 kV Jiribam-Rengpang	17-11-2023	Tripped on Earth fault	-
132kV Ningthoukhong-Churachandpur ckt 1	04-08-2024	Z-1, 18.5 km, O/C	-

In 219th OCCM, utilities updated as under: -

Generating units-

Sl. No	Unit details	Utility	Update on revival
1	Baramura Unit 4	TPGCL (Tripura)	Out due to shortage of gas
3	Baramura Unit 5	TPGCL	Out due to shortage of gas
4	LTPS Unit 7	APGCL	OEM parts ordered. Expected by Feb-25

Transmission lines-

Sl. No	Element	utility	Update on revival
1	400 Imphal-Thoubal ckt I &II	MSPCL	Ckt I - ROW, Litigation pending in court. Ckt II is already charged on 14th September 2024.

2	132kV Kohima-Meluri	DoP Nagaland	NHIDLC payment pending. 3 months after the payment
3	132kV Jiribam-Rengapng	MSPCL	Line partially charged. i.e. sectionalize charged upto Nongba from the Rengpang end (a distance of 5 km). The section from Nongba to Jiribam (Manipur) is yet to be charged which is around 45 km. Full charging will take time as no access to the affected area. Expected by December-24.

Deliberation of the sub-committee

Forum requested the concerned utilities to provide updates through email to NERPC and NERLDC

5. PART-E: ITEMS FOR STATUS

5.1 Implementation of projects funded from PSDF:

The status as informed in 223rd OCCM:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**	Line Differential Protection
Ar. Pradesh	Package-I (Diagnostic tools) Complete in all respects. P-II (for PLCC & communication) Supply completed. Erection WIP. 50% requisition submitted. P-III (Substation equipment) Agreement signed and 10% requisition submitted. Total 90% requisition by Apr'22. Completion by Dec'22. (Approval from TSA and Account opening in 3 months)	Project completed in all respects.	-	30% requisition submitted. Amount not received in the TSA account.	By Aug.'24
Nagaland	Completed in all respects.	Work completed in all respects. UC submitted	-	30% requisition submitted	Lines identified. Under DPR preparation stage.

Mizoram	Final 10% disbursed. UC to be submitted.	Work completed in all respects. Remaining part of final 10% to be disbursed ASAP.	To reply to TESG queries.	30% requisition submitted.	Revised DPR including both 132kV Aizawl-Luangmual and 132kV Khamzawl-Khawiva to be submitted.
Manipur	Package-II: completed Package-I: all stations complete except Ningthoukhong. By May'22.	Work completed in all respects. UC submitted in Oct'21.	WIP.	10% disbursed for IT portion, no disbursement for Meter, AMR portion. 20% disbursement for IT portion after completion of 3rd milestone. 30% to be disbursed for Meter, AMR portion	Revised DPR for LDP of 132kV Imphal-Yurembam-III to be submitted by June'22.
	33kV System Integration with SLDC	In tendering stage			
	Reliable Communications for grid connectivity	In tendering stage			
Tripura	Completed. Final UC submitted on 04th May'22.	Final 10% requisition submitted.	Not relevant in present scenario with commissio	10% successfully disbursed. 20% fund reversed back from vendor	For 132kv 79Tilla-Budhjungnagar line and for Rokhia link

			ning of ISTS lines. Issue dropped	account. Will be resolved soon.	LDP at own cost. Tendering undergoing . DPR preparation for rest of the lines
Assam	Work completed except CRP, SAS work in 8stations which have been retendered and awarded to M/s SIEMENS. Completion by Dec'22	Project completed in all respects.	-	30% funds yet to be fully disbursed. 60% requisition sent.	Lines identified. DPR submitted.
Meghalaya	MePTCL – completed in all respects. MePGCL – Completed in all respects.	Project completed in all respects.	-	90% works completed. Communication pending.	All works except OPGW done

Sub-committee noted as above

5.2 Status update of important grid elements under prolonged outage impacting system operation:

Sl. No	Element	Owner	Status up to the 218thOCCM	Latest Status
1	132kV Mariani – Mokokchung (*out since April'2008*)	AEGCL	DPR sent to PSDF	
2	132kV Roing-Pasighat (*charged through ERS tower*	NERTS	September'24	
3	132kV Srikona – Panchgram	AEGCL	task will be completed by Sept.'24	

4	400kV Imphal – Thoubal-I and 315MVA 400/132kV ICT at Thoubal	MSPCL	RoW, litigation pending in court.	
5	63MVAR Bus Reactor at Byrnihat to be replaced with 80MVAR Reactor	MePTCL	Installed. Relay system pending. To be completed shortly.	
6	Permanent restoration of Tower loc. No. 4 of 132kV Jiribam-Haflong line	NERTS	line was restored on ERS on 8th July. For permanent restoration survey is underway and the work will tentatively be completed within six months.	

Members to update through email

5.3 Status of commissioning for upcoming projects

Sl. No	**Name of the element**	**Utility**	**Status up to the 218th OCCM**	**Latest Status**
1	132kV Monarchak-Surjamaninagar	TSECL	20 km stringing left, 2 tower foundation pending and pending 8 nos. tower erection. Tentative completion by Sept.'24	
2	PLCC for 132kV Loktak-Ningthoukong and 132kV Loktak-Rengpang(existing lines)	MSPCL	Sept.'24. Work hampered due to Law & order situation in Manipur	
3	220kV Samaguri – Mariani-I	AEGCL	Survey completed. Cost estimate being prepared.	
4	220kV AGBPP –Namsai D/C	TBCB	Oct'25, subject to RoW issue	
5	Upgradation of 132kV Surjamaninagar-Surjamaninagar(ISTS),	TSECL	Resolution adopted in 26th RPC. Sent to MoP, GoI	

	132kV Bodhjungnagar-SMNagar, 132kV P.K.Bari-Ambassa, 132kV P.K. Bari-P.K.Bari(ISTS)			
6	LILO of 132kV Leshka-Khliehriat-I at Mynkre and Mynkre SS and 33kV downstream at Mynkre.	NERPSIP	LILO line charged. SS by Sept.'24	
7	220kV Rangia – Amingaon D/C and 220/132kV 2x160MVA Amingaon S/S	NERPSIP	SS charged; Line idle charged. Load charging to be done shortly	
8	132kV Rengpang-Tamenglong and 132/33kV 4x6.67MVA at Tamenglong at Manipur	NERPSIP	Works hampered due to present law and order condition.	.
9	132/33kV West Phaileng S/S at Mizoram	NERPSIP	Ready for charging.	
10	132/33kV 2x12.5MVA Marpara S/S at Mizoram	NERPSIP	20 km stringing left, 2 tower foundation pending and pending 8 nos. tower erection. Tentative completion by August'24	
11	132/33kV 2x12.5MVA Lungsen S/S at Mizoram	NERPSIP	Sept.'24. Work hampered due to Law & order situation in Manipur	
12	132kV Chawngte – S.Bungtlang S/S at Mizoram	NERPSIP	Ready for charging.	.
13	132kV W.Phaileng-Marpara S/C at Mizoram	NERPSIP	Sept.'24, works hampered due to delay in tree cutting in forest area	

14	220kV Zhadima – Mokokchung at Nagaland	NERPSIP	Ckt 1 charged in Mar'23. Other ckt waiting for finalization of MoU	
15	132kV Wokha-Zunheboto – Mokokchung at Nagaland	NERPSIP	WokhaZunheboto section has been completed. Balance section by By Sept.'24	
16	132kV Tuengsang – Longleng at Nagaland	NERPSIP	Tuensang SS upgradation package has been awarded. August'24	
17	132/33kV Amarpur S/S at Tripura	NERPSIP	Sept.'24	
18	132/33kV Manu(new) S/S at Tripura	NERPSIP	Sept.'24	
19	132kV Dharmanagar-Kailashor	NERPSIP	Sept.'24	
20	132kV Ziro-Yazali and 132/33kV Yazali S/S	POWERGRID-Comprehensive	Sept.'24	
25	132kV Chimpu – Holongi and 132/33kV Holongi S/S	POWERGRID - Comprehensive	Clearance form AAI for SS and line is pending	
26	Unit 1 and 2 of Lower Subansiri HEP	NHPC	Sept.'24	
27	400kV Lower Subansiri-BNC line2	PGCIL	Line idle charged	
28	Gantry for LS-BNC line 2	NHPC	Sept.'24	
29	Bus reactor at Lower Subhansisri	NHPC	Sept.'24	
30	Conversion of MT to DM at (i)132kV Khliehriat, (ii)132kV		Imphal-depends upon the law and order in Manipur. No contracts coming up.	

	Badarpur, (iv) 132kV Imphal	NERTS	Badarpur and Khleihriat-order yet to receive	
31	220kV New Shillong-NangalBibra(ISTS 220/132kV) TL	MEPTCL	As updated by PGCIL, survey completed and report also completed	
32	220kV Bongaigaon-Nangalbibra (ISTS) DC and 220/132kV Nagngalbibra (ISTS) substation	Sterlite	Tentative completion by Sept.'24.	
33	HTLS reconductoring of 132kV Hailakandi-Dullavcherra	AEGCL	During 23rd TCC RPC meeting, the forum recommended for the upgradation and preparation of DPR by AEGCL. AEGCL is already planning for reconductoring of the lines. However, Funding source is not finalized yet.	
34	HTLS reconductoring of 132kV Panchgram-Hailakandi	AEGCL	Included in CEA 2030 Augmentation Scheme. AEGCL is already planning for reconductoring of the lines. However, Funding source is not finalized yet	.
35	HTLS reconductoring of 132kV Srikona-Pailapool	AEGCL	Included in CEA 2030 Augmentation Scheme. AEGCL is already planning for reconductoring of the lines. However, Funding source is not finalized yet.	

Members to update through email.

5.4 Status of ISTS expansion scheme in NER

A. Status of downstream 220kV or 132kV network by STUs from the various commissioned and under-construction ISTS substations in NER

Sl	ISTS S/s	State	Voltage ratio, Trans. Cap	Down- stream Voltage level (kV)	Unutilized bays	Status of ISTS bay	STU Lines for unutilized bays	Status of Lines (as updated in 219thOCCM)	
								Date of Award	Completion schedule
1	New Mariani (POWERGRID)	Assam	400/220kV, 2x500MVA	220	2	Commissioned	New Mariani (POWERGRID) – Diphu (Assam) 220kV D/c line	Plan for route survey from Diphu to New Mariani is underway. The transmission route traverses designated forest area. Survey work is completed only funding is pending. Three years from date of LoA. Completion is expected by 2028.	Plan for route survey from Diphu to New Mariani is underway. The transmission route traverses designated forest area. Survey work is completed only funding is pending. Three years from date of LoA. Completion is expected by 2028.
2	New Kohima (TBCB)	Nagaland	400/220kV, 2x500 MVA	220	2	Commissioned	New Kohima (TBCB) – New Kohima (Nagaland) 220kV D/c line	LoA Feb'2021	OPGW and PLCC work will be completed by Oct 2023. All works are being implemented by Nagaland only. Line would be charged after completion of communication link.
3	Nangalbibra (TBCB)	Meghalaya	220/132kV, 2x160MVA	132	2	Under construction (Dec'23)	Nangalbibra (ISTS) – Nangalbibra (MePTCL) 132kV D/c	LoA is under process. Fund is yet to be	within 6 months after award.

							(HTLS,800A) Line:about 5km	released from the Govt. of Meghalaya .	

B. Status of 400kV substations and other important elements being implemented by STUs in NER under intra-state schemes to be connected through ISTS

Sl. No.	Substation/Location	Transformation Capacity/ Element	Date of Award	Completion Schedule
B	**Tripura (to be implemented by TSECL)**			
I	**Surajmaninagar (TSECL)**	400/132kV, 2x315MVA	JV formation, between PGCIL and STU by Mar'23	12 months from Date of Award
a)	LILO of both circuits of Surajmaninagar (ISTS) – Palatana 400kV D/c line atSurajmaninagar (TSECL) S/s	400kV D/c	All works except 400kV termination at Surjamaninagar(TSECL) by POWERGRID to be done. Balance works under separate contract.	LILO completed for 400kV ckt 2 (by PGCIL) without bay readiness, LILO has been charged.Total completion subjected to Sub-station readiness at Surajmaninagar

Members to update through email

5.5 Status Review for the Items Referred from previous OCCMs:

SL No.	Item for Discussion	Status as per 219thOCCM	Latest Status
1.	Voltage and MVAR issues at 400kV Kameng S/Sn (Agenda No. C7 of 189th OCCM)	Discussion with OEM M/s BHEL is underway.	
2.	Implementation of Bus Bar Protection at 132 kV Kahilipara (AEGCL)	CT under procurement. Tentative target is Dec'24	

	Substation (C.8 of 196th OCCM)		
3.	Installation of Line differential protection in Rokhia-N.Rokhia line	CBs arrived. Tentative completion by Sept.'24	
4.	Reconductoring of Umiam stg I stg III, upgradation of CT ratio to 800/1	Approaching PSDF for funding	
5.	Restoration of tower no. 3 and 12 of LILO of Nirjuli-Dikrong Transmission line to Lekhi Substation (B.23. of 193rd OCCM)	Tower locations in spate of floods. Works stalled. Expected completion after monsoon.	
6.	Upgradation of Tuensang substation to 132kV level, under NERPSIP. (item B.15 of 203rd OCCM)	NERPSIP updated that tender has been awarded by the end of June'23 and the work will be completed in Sept.'24	
7.	Khandong Bus A, Kopili ckt 1 bay and Khliehriat ckt 1 bay at Khandong SS	NEEPCO updated that LoA has been awarded on 30th August 2023 and work to be tentatively completed by Sept.'24	
8.	400kV Bus Bar 2 at Panyor Lower HEP (Item C.9 of 216th OCCM)	NEEPCO informed that the isolator spares had arrived and for SF6 breaker, retendering was underway. He further stated that the work would be tentatively completed by May'25.	

Members to update through email.

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