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

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

NO. NERPC/SE(P)/PCC/2026/413-454.

07-05-2026

To

As per list attached

Sub: 89वीं संरक्षण समन्वय उप-समिति (पीसीसी) बैठक का कार्यवृत्त/ Minutes of 89th Protection Coordination Sub-Committee (PCC) Meeting

महोदय/महोदया,

कृपया 21 अप्रैल 2026 को NERPC कॉन्फ्रेंस हॉल, शिलांग में हुई 89वीं पीसीसी बैठक के कार्यवृत्त को अपनी जानकारी और आवश्यक कार्रवाई के लिए प्राप्त करें। कार्यवृत्त एनईआरपीसी 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 89th PCC Meeting held at NERPC Conference Hall, Shillong on 21st April 2026 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,

(वी एन मुंचा / V N Muncha)
निदेशक / 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, 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. Head & VP, (R&C), ENICL, IndiGrid, Windsor Building, Kalina, Santacruz (East), Mumbai- 98
28. ED, NERLDC, Dongtieh, Lower Nongrah, Lapalang, Shillong -793 006
29. CGM, AEGCL, Bijuli Bhawan, Guwahati – 781001
30. CGM, APGCL, Bijuli Bhawan, Guwahati – 781001
31. CGM, DISCOM, Bijuli Bhawan, Guwahati – 781001
32. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar – 791111
33. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
34. Head of SLDC, MSPCL, Imphal – 795001
35. Head of SLDC, MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
36. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl – 796 001
37. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur – 797103
38. Head of SLDC, TSECL, Agartala – 799001
39. Chief Engineer (Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124
40. DGM (O&M), OTPC, Badarghat Complex, Agartala, Tripura – 799014
41. AGM Regulatory & Commercial, NER II TL, 10th Floor, Berger Tower, Noida sector 16B-201301
42. Director, NETC, 2C, 3rdFloor, D21Corporate Park, DMRC Building Sector 21, Dwarka, Delhi-77.

(वी एन मुंचा / V N Muncha)
निदेशक / Director

सत्यमेव जयते

Minutes of

89th PCCM

Govt. of India

Ministry of Power

North Eastern Regional Power Committee

Shillong

North Eastern Regional Power Committee

Minutes of

89th Protection Coordination Sub-Committee Meeting

Date: 21/04/2026 (Tuesday)

Time: 11:00 hrs.

Venue: NERPC Conference Hall, Shillong

MS NERPC welcomed all the participants to the 89th PCC meeting. He apprised the forum that during the recent visit to Itanagar, Ar. Pradesh he had highlighted the issues related to protection system in the State to the highest authorities and expressed optimism that the pending issues, like replacement of old pneumatic CBs at Daporijo, Along etc., would be resolved shortly.

He further, underscored that the PDMS and PSCT systems which has been in operation since 2018 remained underutilized due to inadequate usage and adoption of the software by the state utilities as well as PSUs. In this regard, he, urged all power utilities of NER to make effective use of these software tool to enhance and strengthen of their protection systems.

Also, he expressed concern over large number of Special Protection Scheme deployed across the region and stated that this shows lack of redundancy and reliability in the NER gird. He strongly encouraged the concerned utilities to strengthen their network, thereby reducing dependence on the SPS and improving the robustness of the NER grid. He appreciated the pre-discussion meeting on various GI/GDs during the previous month(s) by the sub-committee of protection and brought forth the recommendation to the PCC Forum for fruitful deliberations. He requested all the participants to actively participate during the meeting.

Thereafter, he requested Director (Protection) to take up the agenda items.

The list of participants is attached as annexure I

A. CONFIRMATION OF MINUTES

1. CONFIRMATION OF MINUTES OF THE 88th PROTECTION SUB-COMMITTEE MEETING OF NERPC.

Minutes of the 88th PCC Meeting held on 19th February, 2026 at NERPC Conference Hall, Shillong was circulated vide letter No.: CEA-GO-NE-04)42)/1/2026-NERPC dtd. 06.03.2026

Since, no comments were received from the constituents, the Sub-committee confirmed the minutes of the 88th PCCM

B. ITEMS FOR DISCUSSION

B.1 Protection Audit of NER:

As per the protection code of IEGC 2023 following roles and responsibilities, related to the subject mentioned, of constituents have been defined–

Description		Constituent	Responsibility	Timeline
Audit	Internal Audit	All users (132kV and above)	Shall conduct internal audit of protection system	Annually
			Audit report to be shared with RPC	Within 30 days of Audit
			Action plan for rectification of deficiencies to be shared with RPC	Within 30 days of Audit
	Third party Audit	All users (132kV and above)	Shall conduct audit for each SS	Once in five years
			Shall conduct audit on advice of RPC	Within three months of advice of RPC
			Audit report to be submitted to RPC and NERLDC/SLDC	Within a month of submission of third-party audit report

			Action plan for rectification of deficiencies	Same as above
		RPC	Compliance to audit reports to be followed up regularly	Not specified
		RPC	After analysis of any event, shall identify substations where audit is required to be carried out	Conditional responsibility
	Annual audit plan	All users	Annual audit plan to be submitted to RPC by ***31st October***	Annual

Status of Internal/External audit (88th PCCM)

Sr No	Utility/ Constituents	Internal Audit		External audit	
		Latest Status	**report**	**Latest Status**	**report**
1.	Ar. Pradesh	Audit of Daporijo, Khupi, Tenga and Lekhi done. (Total Substation: 09)	Report for Daporijo shared. Report for Khupi and Tenga will be shared shortly	Planning and Tendering will be done for audit of all 9 SS. Proposal has been put up to the government for funding approval. (audit of 3 SS done by NERPC).	NA
2.	Assam	Done. (Total Substation: 82)	All the reports will be shared by Jan 25.	CPRI has provided the budgetary offer, which comes around 5 lakhs per substation, which may cause huge financial burden on the AEGCL.	

				Therefore, the matter is being pursued with AERC for inclusion of the cost in the tariff. Meetings with AERC are underway.	
3.	Manipur	completed (Total Substation: 17)	Report for 8 SS submitted to NERPC	17 SS to be done, Schedule to be decided, subject to funding approval and law and Order situation. Audit of Yurembam ss, Ningthoukhong ss and Imphal (PG) were done by NERPC in Aug'25	NA
4.	Meghalaya	Only 3 SS left (Total Substation: 22)	Reports of 6 SS submitted, rest by next week.	Audit of 19 substations done, 13 by CPRI and 6 by NERPC	Report for 5 substations to be submitted by this month.
5.	Mizoram	Audit of 3 substations done. Higher authorities have agreed for providing funds for conducting the audits. Rest of the audits will be taken up shortly. (Total Substation: 13)		Under discussion at higher level for financial implications. Audit of Kolasib, Aizawl(PG), Melriat (PG), Zuangtui and Luangmual were done by NERPC in October'25.	

6.	Nagaland	9 out of 11 SS done. Rest will be conducted by Feb'26.	Reports for 9S/s has been submitted.	Audit of six Substations has been done by NERPC in Jan'26. For other substations, audit to be done by external agencies and the matter is under discussion at higher levels	
7.	Tripura	16 done, two substations, Manu and Amarpur have been recently commissioned under NERPSIP project and are yet to be handed over to the state. (Total Substation: 18)	Reports shared	ERDA has emerged lowest bidder for the audit. In 1st phase 9 substations will be audited. LoA is in process, timeline of the audit is 120 days.	
8.	Powergrid (NERTS)	22 Substations. Audit of 18 SS done	Report for 16 S/s has been shared.	Budgetary offer will be taken after SAS upgradation 400kV substations. Audit of 9 substations have been done by NERPC so far.	
9.	NTL	Audit of P K Bari and S M Nagar to be done in		Feb, March'26. (Utility absent)	

		March'26. (Utility absent)			
10	KMTL	Done	submitted	Done by M/s ERDA	Report by 1st March'26
11	MUML/NBTL	For MUML – Jan'26 For NBTL – Dec'25 (done)		MUML- Planned in March'27. CBIP denied to conduct the audit of the bays of MUML separately and advised to conduct the audit of the North Lakhimpur substation holistically. NBTL -done, reports shared	
12	NEEPCO (Total Substation: 10)	Completed.	Audit report of Khandong and Tuirial submitted. For rest, will be submitted shortly	Audit of Kameng done by PRDC on Dec'25. Tuirial underway. Pare-June'26 PLHPS -May'26 AGTCCPP – done AGBPS – April'26 Monarchak – Sep'26 Doyang- May'26 Order has been issued to CPRI for the above audits.	Report of Kameng will be submitted as soon as it is provided by PRDC
13	OTPC (Palatana)	Done in October'25	shared	Done in 2024	shared
14	NTPC (BgTPP)	Done		Done (by CPRI) during 2024. 3 audit recommendation compliance done and report submitted to NERPC.	Complete Report shared. Action plan shared.

15	NHPC (Loktak)	To be done in Dec'25		Done by PRDC in Sep'25	Report to be shared shortly.
16	APGCL	No representative			
17	TPGCL				
18	MEPGCL	All done	All reports shared	Budgetary offer received from CPRI, CBIP and PRDC. The audits will incur very high fianacial burdern. It was requested to NERPC to conduct the audit of the generating stations. NERPC clarified that the they will conduct the audit of only those few stations which are critical from the protection point of view.	
19	Dikshi HEP (IPP)	Audit done in Nov'25.	Report shared report submitted to the state.	Feb'26	

Deliberation

Status of Internal/External audit (89th PCCM)

Sr No	Utility/ Constituents	Internal Audit		External audit	
		Latest Status	**report**	**Latest Status**	**report**
1.	Ar. Pradesh	Audit of substations other than	Report for Daporijo, Khupi	Planning and Tendering will be done for audit of all 9	NA

		Daporijo, Khupi, Tenga and Lekhi will be done September onwards. (Total Substation: 09)	and Tenga shared.	SS. Proposal has been put up to the government for funding approval. (audit of 3 SS done by NERPC). As requested by DoP, AP, the criteria for vendor list for audit will be furnished by NERPC	
2.	Assam	Done. (Total Substation: 82)	All the reports shared	The matter is being pursued with AERC for inclusion of the cost in the tariff. Meetings with AERC are underway. It is planned to conduct audit of 20 substations by next year.	
3.	Manipur	Planning being done for next FY (2026-27) (Total Substation: 17)		17 SS to be done, Schedule to be decided, subject to funding approval and law and Order situation. Audit of Yurembam ss, Ningthoukhong SS and Imphal (PG) were done by NERPC in Aug'25	NA
4.	Meghalaya	Completed for FY 2025-26 (Total Substation: 22)	Reports of 6 SS submitted, rest to be sent shortly.	Audit of 19 substations done, 13 by CPRI and 6 by NERPC	Reports submitted

5.	Mizoram	Audit of 3 substations done. Rest of the audits will be taken up shortly. (Total Substation: 13)		During the 31st NERPC meeting, Hon'ble Power Minster agreed for Sanctioning the budget for proposed audit. Subsequently, an offer has been solicited from M/s PRDC and the process for award of tender, to be done shortly. Audit of Kolasib, Aizawl, Melriat (PG), Zuangtui and Luangmual were done by NERPC in October'25.	
6.	Nagaland	9 out of 11 SS done. Audits of Zadima and Likhimro are in process.	Reports for 9S/s have been submitted.	Audit of six Substations has been done by NERPC in Jan'26. Zhadima done. For other substations, audit to be done by external agencies and the matter is under discussion at higher levels. Audit firms are being finalized	
7.	Tripura	16 done, two substations, Manu and Amarpur have been recently	Reports shared	M/s ERDA has emerged as the lowest (L1) bidder for undertaking the audit. In the first	

		commissioned under NERPSIP project and are yet to be handed over to the state. (Total Substation: 18)		phase, a total of nine substations has been identified for the audit. The Letter of Award (LoA) has been issued, and the agency is expected to mobilize and commence activities, with their team scheduled to arrive within one week.	
8.	Powergrid (NERTS)	22 Substations done	Report for 16 S/s has been shared.	Budgetary offer will be taken after SAS upgradation 400kV substations. Audit of 9 substations have been done by NERPC so far. Balance order has been placed.	
9.	NTL	Audit of P K Bari and S M Nagar to be done in March'26. (Utility absent)		Feb, March'26. (Utility absent)	
10	KMTL	Done	submitted	Done by M/s ERDA	Report by May'26
11	MUML/NBTL	For MUML – Jan'26 For NBTL – Dec'25 (done)		MUML- Planned in March'27. M/s CBIP denied to conduct the audit of the bays of MUML separately and advised to conduct the audit of the North	***Item to be deleted***

				Lakhimpur substation holistically. NBTL -***done, reports shared***	
12	NEEPCO (Total Substation: 10)	Completed.	Audit report of Khandong and Tuirial submitted. For rest, will be submitted shortly	External Audit completed for 3 stations such as AgGBPS in Jan'22, Kameng done by M/s PRDC in Dec'25. Tuirial done in Feb'26. Upcoming: Pare-June'26 PLHPS -June'26 AGTCCPP – done AGBPS – last week of April'26 Monarchak – Sep'26 Doyang- June'26 Order has been issued to M/s CPRI for the audit of AGBPS.	Report of Kameng will be submitted as soon as it is provided by M/s PRDC
13	OTPC (Palatana)	Done in October'25	shared	***Done in 2024***	***Shared. To be deleted***
14	NTPC (BgTPP)	Done for FY 25-26	shared	Done (by M/s CPRI) during 2024. 3 audit recommendation compliance done and report submitted to NERPC.	***Complete Report shared. Action plan shared. To be deleted***
15	NHPC (Loktak)	To be done in Dec'25		Done by M/s PRDC in Sep'25	***Report shared in***

					Feb'26. To be deleted.
16	APGCL	Will share the plan next week		Will share the plan next week	
17	TPGCL	TSCEL will write a letter to TPGCL on the matter			
18	MEPGCL	All done	All reports shared	Budgetary offer received from M/s CPRI, M/s CBIP and M/s PRDC. The audits will incur very high financial burden. It was requested to NERPC to conduct the audit of the generating stations. NERPC opined that they may consider conducting the audit of some stations based on criticality.	
19	Dikshi HEP (IPP)	Audit done in Nov'25.	Report shared	Feb'26	***To be deleted***

The Sub-committee noted as above

Action: PRDC and all power utilities

B.2 <u>Ensuring active participations of NER states for ensuring effective utilization of the PDMS and PSCT software</u>

Protection Database Management System (PDMS) and Protection Settings Calculation Tools (PSCT) have been in operation in NER since 2019 and currently they are about to enter into 7th year AMC period. These systems are critical for making a database of protection relay settings implemented in NER, which is a

regulatory requirement and also for protection ensuring coordinated relay settings for NER grid. The project has been planned and implemented with the vision that the NER utilities would use it effectively to strengthen their protection systems and make NER grid resilient. Further, software licences were also provided by the OEM (M/s PRDC) for using the software.

In the last few years, the concern has risen that the NER power utilities are lacking interest in using these software(s) for relay settings updation and protection coordination studies for their respective networks. This has led to the problem of underutilisation of the system.

In this regard, it is requested to NER power utilities to realise the criticality of the software(s) and show keen interest in using them and strengthen their protection systems.

Deliberation

MS NERPC emphasized the critical importance of PDMS and PSCT systems in strengthening of protection system network of NER grid and stressed that these tools should be widely utilised by the constituents to realize its intended benefits.

The forum further opined that a list of nodal officers from each power utility may be prepared to facilitate seamless coordination with the implementing agency and ensure effective utilisation of the PDMS system. The utilities provided the details of nodal officers as follow –

Utility	Name	Contact no.
AR. Pradesh		
AEGCL		
APGCL	P B Sarmah, DGM, HQ	9435358402
	J P Bailung, AGM, LTPS/LRPP	7002759516
	R D Barman, DGM, KLHEP	9401702372
	Rasewel Iercon, AGM, NRPP	9401659361
Manipur		9612882984
Nagaland	Alex E Nguillie	8837080321
MepTCl	Kitbok Syrti, EE	8974595356
MePGCL		
Mizoram	C. Daniela, EE	9774692350

NERLDC	Utpal Das, DM	7005504075
NEEPCO	Bhaskar Majumdar, DGM	9436222650
Powergrid	M J Baishya, Ch. Manager	9435555740
NHPC	J Pani, Sr. Manager	8800021271
NTPC	G Sonowal, DGM	8269609797
OTPC	S Choudhary, Head Operation	8837008091

MS NERPC exhorted the NER power utilities to -

1. Provide the protection settings to M/s PRDC for the pending elements as well as upcoming elements in the required format to ensure timely updation of protection settings database of NER, which is regulatory requirement.
2. Utilise the PSCT software extensively to undertake comprehensive protection studies of their respective networks, thereby enhancing system reliability and operational effectiveness.
3. Provide the pending nominations within a week to NERPC

The Sub-committee noted as above

Action: PRDC and all power utilities

B.3 Analysis and Discussion on Grid Disturbances which occurred in NER grid in February and March'26 in compliance with IEGC 2023:

TABLE 8 : REPORT SUBMISSION TIMELINE

Sr. No.	Grid Event^ (Classification)	Flash report submission deadline (users/ SLDC)	Disturbance record and station event log submission deadline (users/ SLDC)	Detailed report and data submission deadline (users/ SLDC)	Draft report submission deadline (RLDC/ NLDC)	Discussion in protection committee meeting and final report submission deadline (RPC)
1	GI-1/GI-2	8 hours	24 hours	+7 days	+7 days	+60 days
2	Near miss **event**	8 hours	24 hours	+7 days	+7 days	+60 days
3	GD-1	8 hours	24 hours	+7 days	+7 days	+60 days
4	GD-2/GD-3	8 hours	24 hours	+7 days	+21 days	+60 days
5	GD-4/GD-5	8 hours	24 hours	+7 days	+30 days	+60 days

^*The classification of Grid Disturbance (GD)/Grid Incident (GI) shall be as per the* CEA Grid Standards.

The forum may deliberate upon the GD/GI/near miss events that occurred in February and March 2026 based on the draft report prepared by NERLDC.

Deliberation

NERLDC informed that a total of 9 GDs occurred in NER in Feb'26, out of which 6 were due to radial network. Further, a total of 43 GDs occurred in NER in March'26, out of which 32 were due to radial network. He added that all these GDs were discussed with the stakeholders in an online meeting held on 16.04.2026 and remedial actions were suggested, which will be updated in the further agenda items. Forum opined that henceforth the state utilities will present their analysis report, on the GDs which have occurred in their jurisdiction, in the GD pre-discussion meetings.

The Sub-committee noted as above

Action: all power utilities

B.4 Status of submission of FIR, DR & EL outputs for the Grid Events for the month of Feb'2026 & March'2026:

In line with regulation 12 (1) of CEA Grid Standards Regulations and IEGC-23 provision under clause 37.2 (c), FIR and DR & EL Outputs for each grid events are required to be submitted by concerned utilities to NERLDC for detailed investigation and analysis.

Status of uploading of FIR, DR & EL outputs of tripping of transmission elements in Tripping Monitoring Portal for events from 01-02-2026 to 31-03-2026 as on **10-04-2026** is given below:

Owner Name	Total No of FIR/DR/EL/TR to be submitted(SEND+REND)	FIR		DR		EL	
		Furnished in 24hrs %	Total furnished %	Furnished in 24hrs %	furnished %	Furnished in 24hrs %	Total furnished %
AEGCL	70	0.00%	94.29%	0.00%	95.71%	1.43%	95.71%
APGCL	2	50.00%	50.00%	0.00%	50.00%	0.00%	50.00%
DoP, Arunachal Pradesh	4	50.00%	100.00%	50.00%	100.00%	50.00%	100.00%
DoP, Nagaland	29	65.52%	100.00%	13.79%	100.00%	41.38%	100.00%
MePGCL GENERATION	2	100.00%	100.00%	0.00%	100.00%	0.00%	100.00%
MePGCL TRANSMISSION	5	0.00%	100.00%	0.00%	100.00%	20.00%	100.00%
MePTCL	34	82.35%	100.00%	82.35%	100.00%	73.53%	100.00%
MSPCL	45	46.67%	84.44%	35.56%	66.67%	44.44%	66.67%
NEEPCO GENERATION	19	63.16%	100.00%	63.16%	94.74%	63.16%	94.74%
NEEPCO TRANSMISSION	28	64.29%	85.71%	67.86%	82.14%	64.29%	82.14%
NHPC GENERATION	27	7.41%	25.93%	22.22%	25.93%	22.22%	25.93%
NHPC TRANSMISSION	8	0.00%	0.00%	0.00%	12.50%	0.00%	12.50%
NTL	8	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
P&ED, Mizoram	16	31.25%	100.00%	62.50%	100.00%	75.00%	100.00%
POWERGRID	80	48.75%	95.00%	70.00%	92.50%	61.25%	93.75%
TSECL	36	50.00%	97.22%	52.78%	100.00%	47.22%	100.00%

Concerned Utilities are requested to upload Disturbance Recorder (DR), Event Logger (EL) outputs for grid events along with a First Information Report (FIR) in Tripping Monitoring Portal (https://tripping.nerldc.in/Default.aspx) for analysis purpose. In light of the cybersecurity measures implemented by Grid India to safeguard sensitive information, NERLDC has created the email address nerldcso3@gmail.com . This new account has been specifically set up to facilitate the secure exchange of DR and EL files that have previously faced blockage when sent to nerldcprotection@grid-india.in.

Also, all utilities are requested to nominate a nodal officer responsible for the submission of FIR, DR & EL in Tripping Monitoring Portal (https://tripping.nerldc.in/Default.aspx)

Deliberation:

MSPCL informed that laptops have been procured and will be distributed to each substation shortly, after which, system for DR downloading and sharing will be put in place.

NHPC informed the forum that such a delayed in submission will be minimized in future.

NERLDC raised concerns over the delayed submission of FIR, DR, and EL reports by AEGCL, observing that such delays have adversely impacted the timely analysis of line disturbances, including incidents involving inter-state elements.

Further, it was highlighted that over the past two months there has been a non-submission of requisite details from the NTL end, which is a matter of serious concern as it is adversely impacting the monitoring and analysis of critical elements in the Tripura system.

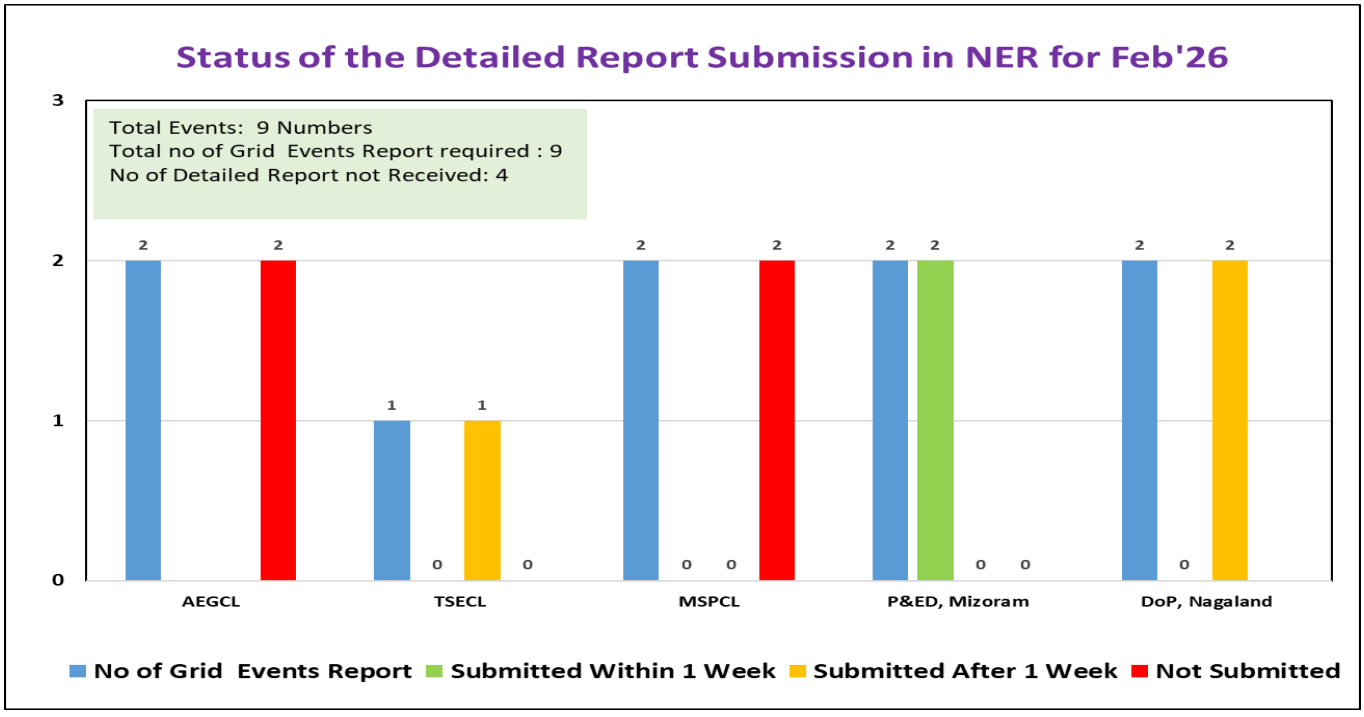
Forum reiterated all the utilities to share the details as mandated in the IEGC'23 for further analysis.

The Sub-committee noted as above

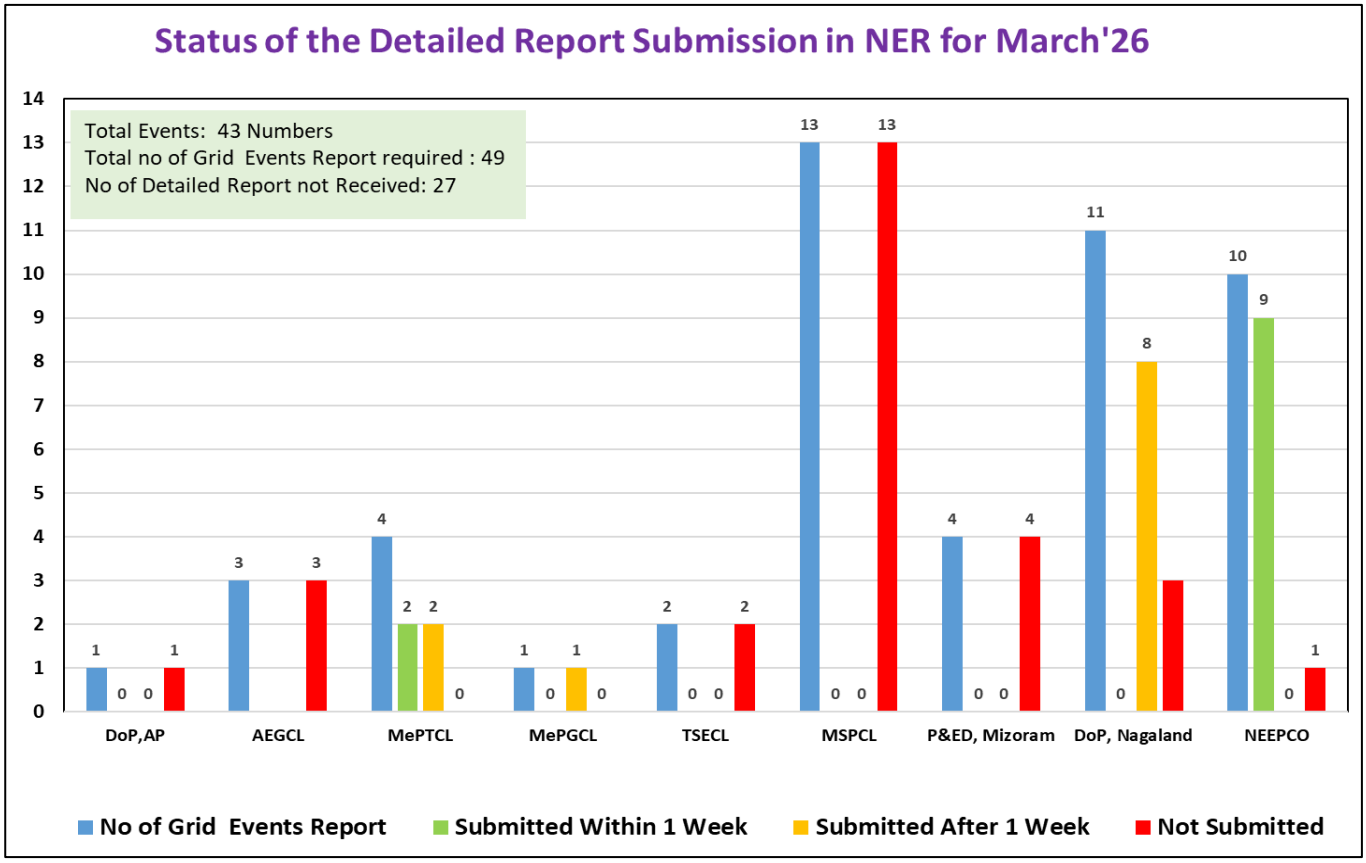
Action: all power utilities

B.5 Submission of Detailed Report by User/SLDC as per IEGC-2023:

As per IEGC-2023, all User/SLDCs are requested to prepare and share **Flash Report** and **Detailed Report** with **NERLDC** and **NERPC** following any Grid Events as per the timeline mentioned in the cl 37.2(f). Status of submission of the Detailed Report for the month of **Feb'2026** & **March'2026** as on **10-04-2026** is shown below:



During Feb'26, detailed report of grid events not received from **AEGCL & MSPCL.**



During Mar'26, detailed report of grid events not received from **DoP Arunachal Pradesh, AEGCL, TSECL, MSPCL, P&ED Mizoram, DoP Nagaland (3 events) & NEEPCO (1 event).**

List of grid events during **February'2026** & **March'2026** attached as **Annexure I.**

All the utilities are requested to promptly share all the necessary information such as FIR, DR, EL and Reports (Flash Report & Detailed Report) as per the specified timeline mention in the Grid Code-2023.

Deliberation:

Forum requested all the utilities to share the detailed report for the grid events as mandated in the IEGC'23.

The Sub-committee noted as above

Action: all power utilities

B.6 Submission of Protection Performance Indices by Transmission Utilities for Feb'26 & Mar'26:

As per Regulation No. 15(6), Protection Code - Users shall submit the following protection performance indices of previous month to their respective RPC and RLDC

on monthly basis for 220 kV and above (132 kV and above in NER) system by 12th of every month for previous month indices, which shall be reviewed by the RPC. The submission status as on **10th Apr'2026** as tabulated below:

Sl. No.	**Name of Transmission Licensee**	**D= (Nc/ Nc+Nf)**		**S= (Nc/ Nc+Nu)**		**R= (Nc/ Nc+Ni)**		**Remarks**
		Feb' 26	Mar' 26	Feb' 26	Mar' 26	Feb'26	Mar' 26	
1	NETC	–	–	–	–	–	–	Submitted (No bay owned by NETC)
2	MUML	-	-	-	-	-	-	Submitted (No tripping during Feb'26 & Mar'26)
3	NBTL	-	-	-	-	-	-	Submitted (No tripping during Feb'26 & Mar'26)
4	NTL	**Not Submitted**						
5	KMTL	-	-	-	-	-	-	Submitted (No tripping during Feb'26 & Mar'26)
6	POWERGRID	1	Not submitted	1	Not submitted	1	Not submitted	
7	MePTCL	1	**0.813**	1	**0.867**	1	**0.722**	**Mar'26:** 1 number of failed operations at Mawlai SS on 11.03.2026 & 1 number of unwanted LBB operation at

								Mynkre SS on 15.03.2026
8	TPTL	Not submitted		Not submitted		Not submitted		
9	DoP Nagaland	**0.8**	**0.889**	1	**0.381**	**0.8**	**0.364**	**Feb'26:** 1 failed operation, CB at Kohima for 132 kV Dimapur line failed to open on 20.02.2026 **Mar'26**: 13 numbers of unwanted tripping of 132 kV Doyang-Sanis line & 132 kV Doyang-Mokokchung line; 1 failed operation of CB at Kohima for 132 kV Dimapur line
10	DoP Ar. Pradesh	Not submitted	**0.75**	Not submitted	1	Not submitted	**0.75**	**Mar'26**: 1 number of failed operation (CB at Along failed to open for 132 kV Basar line)
11	AEGCL	Not submitted	1	Not submitted	**0.897**	Not submitted	**0.897**	**Mar'26**: 6 numbers of unwanted operation
12	Mizoram	0.86	Not submitted	1	Not submitted	0.86	Not submitted	**Feb'26:** 1 number of failed operation in 132 kV Kolasib-Bairabi line
13	MSPCL	**Not Submitted**						

Sl. No.	Name of Generating Company	D= (Nc/Nc+Nf)		S= (Nc/Nc+Nu)		R= (Nc/Nc+Ni)		Remarks
		Feb'26	Mar'26	Feb'26	Mar'26	Feb'26	Mar'26	
1	NTPC(Bgtpp)	-	Not submitted	-	Not submitted	-	Not submitted	No tripping during Feb'26
2	OTPC(Palatana)	Not submitted		Not submitted		Not submitted		
3	MePGCL	1	1	1	1	1	1	
4	TPGCL	-	Not submitted	-	Not submitted	-	Not submitted	
5	NHPC (Loktak & Subansiri)	**Not Submitted**						
	NEEPCO							
6	Kameng	-	-	-	-	-	-	Submitted (No tripping during Feb'26 & Mar'26)
7	Panyor	-	-	-	-	-	-	Submitted (No tripping during Feb'26 & Mar'26)
8	Pare	-	-	-	-	-	-	Submitted (No tripping

								during Feb'26 & Mar'26)
9	Kopili	-	1	-	1	-	1	No tripping during Feb'26
10	Khandong	1	1	1	1	1	1	
11	Doyang	1	Not submitted	1	Not submitted	1	Not submitted	
12	AGBPP	1	Not submitted	1	Not submitted	1	Not submitted	
13	AGTCCPP	-	1	-	1	-	1	No tripping during Feb'26
14	Monarchak	1	Not submitted	1	Not submitted	1	Not submitted	
15	Tuirial	–	Not submitted	–	Not submitted	–	Not submitted	No tripping during Feb'26

*Nc = no. of correct operations, Nf: no. of failures to operate, Nu: no. of unintended/incorrect operations, Ni: no of incorrect operations

Therefore, all Users are requested to furnish and ensure performance indices (Dependability-D, Security-S, Reliability-R) with regards to the tripping of elements to NERPC & NERLDC positively by **12th** of every month for previous month indices in compliance with IEGC.

Deliberation:

Apart from submitted details a few reports also received before PCC meeting as tabulated below: -

Sl. No.	Name of Transmission Licensee	D= (Nc/ Nc+Nf)		S= (Nc/ Nc+Nu)		R= (Nc/ Nc+Ni)		Remarks
		Feb'26	Mar' 26	Feb' 26	Mar' 26	Feb'26	Mar' 26	
4	NTL	**Not Submitted for Feb & Mar'26**						
6	POWERGRID	1	1	1	1	1	1	-
8	TPTL	Not submitted	1	Not submitted	0.96	Not submitted	0.96	Tripping of Agartala – Rokhia line I at Rokhia end in ZI during reverse fault in 132 kV Monarchak -Rokhia line on 30-03-2026 19:37 Hrs
10	DoP Arunachal Pradesh	Not submitted	**0.75**	Not submitted	1	Not submitted	**0.75**	**Mar'26**: 1 number of failed operation (CB at Along failed to open for 132 kV Basar line)
11	AEGCL	1	1	0.7	**0.897**	0.7	**0.897**	**Feb'26**: 3 numbers of unwanted operation at NTPS & Karimganj (Resolved). **Mar'26**: 6 numbers of unwanted operation
12	Mizoram	0.86	1	1	0.98	0.86	0.98	**Feb'26:** 1 number of failed operation in 132 kV Kolasib-Bairabi line. **Mar'26:** Relay coordination issue at Zuangtui.
13	MSPCL	**Not Submitted for Feb & Mar'26**						

Sl. No.	Name of Generating Company	D= (Nc/Nc+Nf)		S= (Nc/Nc+Nu)		R= (Nc/Nc+Ni)		Remarks
		Feb'26	Mar'26	Feb'26	Mar'26	Feb'26	Mar'26	
1	NTPC(Bgtpp)	-	-	-	-	-	-	No tripping during Feb'26 & Mar'26
2	OTPC (Palatana)	1	1	1	1	1	1	-
4	TPGCL	**Not Submitted for Feb & Mar'26**						
5	NHPC (Loktak & Subansiri)	**Not Submitted for Feb & Mar'26. NHPC will do it centrally**						
	NEEPCO							
11	Doyang	1	1	1	1	1	1	-
12	AGBPP	1	0.6	1	0.75	1	0.5	Reason not mentioned
14	Monarchak	1	1	1	1	1	1	-
15	Tuirial	1	1	1	1	1	1	-

The Sub-committee noted as above

Action: all power utilities

B.7 <u>Mock testing of System Protection Scheme (SPS) for FY 2025-26:</u>

The list of ISTS scheme tested during FY 2025-26 are listed below:

Sl. No.	Name of SPS	Actual Operation in FY 2025-26	Date of mock testing
1	**SPS/MS/001:** SPS related to reliable power supply to Arunachal Pradesh & Assam through the 132 kV Roing - Chapakhowa D/C line	-	Performed on 17th Mar'26 & 24th Mar'26
2	**SPS/AP/001:** Overloading of any one of the 400/132kV, 2x360 MVA ICTs at Panyor Lower Hydro Power Station	-	Performed on 20th & 25th Nov'25
3	**SPS/AP/002:** Outage of 132 kV Panyor (Ranganadi) LHPS- Ziro (PG) Line	Operated successfully on 30th May'25	Not applicable
4	**SPS/AS/002:** Related to the safe evacuation of power from BgTPP(NTPC) generation	-	Performed on 16th Oct'25
5	**SPS/MA/002:** Related to the safe evacuation of power from Loktak (NHPC) generation	-	Newly implemented after scheme (Aug'25)
6	**SPS/TR/002:** Outage/ tripping of both circuits of 400 kV SM Nagar (NTL) -P K Bari (NTL) D/C Line	-	Performed on 14th Oct'25
7	**SPS/TR/003:** Outage/ tripping of both circuits of 400kV PK Bari (NTL) – Silchar (PG) D/C Lines	-	Performed on 13th Oct'25
8	**SPS/TR/004:** Outage/tripping of 400kV Palatana -Silchar D/C Line when both modules of Palatana are in service	-	Performed on 12th Mar'26

Sl. No.	Name of SPS	Actual Operation in FY 2025-26	Date of mock testing
9	**SPS/TR/006:** Outage/tripping of 400 kV Palatana – Surajmani Nagar line (charged at 132 kV)	Operated successfully on 29th May'25 & 11th June'25	Not applicable
10	**SPS/TR/007:** Outage/tripping of both 400/132 kV, 2x125 MVA ICTs at Palatana	-	Performed on 5th Dec'25

The list of the intra state scheme tested during FY 2025-26 are listed below:

Sl. No.	Name of SPS	Actual Operation in FY 2025-26	Date of mock testing
1	**SPS/AS/001:** Overloading of 220 kV BTPS - Salakati D/C Line	-	Performed on 27th Mar'26 (Reports yet to be shared with NERPC)
2	**SPS/AS/003:** Outage of 220 kV BTPS (Salakati) – Rangia I & II Line	Operated successfully on 21st & 26th June'25	Not applicable
3	**SPS/AS/004:** Outage/tripping of 220 kV Azara-Sarusajai D/C Line	-	Performed on 18th Mar'26 (Reports yet to be shared with NERPC)
4	**SPS/AS/005:**	-	Performed on 23rd Mar'26. The

Sl. No.	Name of SPS	Actual Operation in FY 2025-26	Date of mock testing
	SPS related to tripping of 220 kV Misa - Samaguri DC Line		unwanted tripping of 2x160 MVA ICT 1 & 2 observed at Samaguri. (Reports yet to be shared with NERPC)
5	**SPS/AS/006:** SPS related to Outage/tripping of any one circuit of 220 kV Balipara-Sonabil D/C	Operated successfully on 9th April'25	Not applicable
6	**SPS/AS/007:** SPS at BTPS(Assam) substation related to overloading of any of the 2x160 MVA ICTs	-	Performed on 21th Dec'25
7	**SPS/AS/008:** SPS at Azara (Assam) substation related to overloading of any of the 2x315 MVA ICTs	-	Newly implemented after Sep'25 (tested in 22nd Aug'25)
8	**SPS/ME/001:** SPS related to Outage/tripping of any one circuit of the 132 kV Khliehriat (PG)- Khliehriat D/C line	-	Performed on 29th Oct'25
9	**SPS/ME/002:** SPS related to Outage/tripping of any one circuit of 132 kV Leshka – Mynkre- Khliehriat D/C Line D/C Line	-	Performed on 4th Dec'25
10	**SPS/NA/001:**	Operated successfully on	Not applicable

Sl. No.	Name of SPS	Actual Operation in FY 2025-26	Date of mock testing
	SPS related to Outage/tripping of any one circuit of 132 kV Dimapur(PG)- Dimapur(NA) D/C Line	24th July'25- (3 times)	
11	SPS related to secure evacuation of power from the Monarchak (NEEPCO) Power Plant	Operated successfully on 7th July'25	Not applicable
12	SPS related to Overloading of 132 kV Surajmaninagar (TSECL)-Surajmaninagar (NTL) Line	Operated successfully (8 times) during 18th-26th Oct'25	Not applicable

The mock testing of all the operational SPS in NER completed for the FY 2025-26 as mandated in the IEGC'23.

Further, it is to be noted that:

i) During the mock testing of **SPS/AS/005:** SPS related to tripping of 220 kV Misa - Samaguri DC Lines, 2x160 MVA 220/132 kV ICT-I & II at Samaguri tripped which is unwarranted. Accordingly, AEGCL is requested to share the reason of such occurrence and take necessary corrective measures so that SPS functions as designed.

ii) During the mock testing of **SPS/MS/001:** SPS related to reliable power supply to Arunachal Pradesh & Assam through the 132 kV Roing - Chapakhowa D/C line, due to unhealthy OPGW link between the 132 kV Rupai – Chapakhowa line, the tripping of 132 kV Chapakhowa- Roing D/C lines along with 20 MVAR Bus Reactor at Roing (PG) substation was not possible. AEGCL is requested to update the restoration status of unhealthy OPGW link in 132 kV Rupai – Chapakhowa line.

Deliberation:

NERLDC reviewed the status of mock testing of SPS during FY 2025–26 and noted that, out of 22 schemes, 2 schemes were implemented during the year after

successful testing, and 7 schemes operated correctly as per design for which mock testing was not carried out. Accordingly, mock testing was conducted for the remaining 13 schemes during FY 2025–26.

As per the detailed report submitted by AEGCL, the outage of 2x160 MVA 220/132 kV ICT-I & II at Samaguri during the mock testing of SPS/AS/005 (SPS related to tripping of 220 kV Misa - Samaguri DC Lines) was attributed to the tripping of all the feeders connected to 132kV bus at 220kV Samaguri GSS. This occurred due to operation of individual LBB relays (96) in the respective feeders. It was found that, a DC +ve earth fault occurred in the LBB +ve bus and LBB trip bus wirings in 132kV SD Nagar Line I Panel. The cable lugs were changed and the control circuits were restored.

Mock testing of SPS/MS/001: The issue of the unhealthy OPGW link on the 132 kV Rupai–Chapakhowa line was also discussed. In the 31st NETeST meeting, NERPSIP-POWERGRID informed the forum that the Rupai–Chapakhowa communication link would be restored within 15 days, i.e., by 20th April 2025.

The Sub-committee noted as above

Action: All concerned utilities

B.8 <u>Decommissioning of the SPS at SM Nagar (TPTL):</u>

The SPS scheme (No: **SPS/TR/005)** for overloading of the 132 kV Surajmaninagar (TPTL) – Surajmaninagar (NTL) line, with an initial pickup setting of I > 450 A, was commissioned on 11th November 2024.

Subsequently, the pickup setting was revised to I > 600 A in December 2025 following deliberations in the 85th and 86th PCC meetings, considering the reconductoring of the line with HTLS conductor having a thermal rating of 800 A. However, the old CT at the state end, rated at 600 A, were acting as the limiting factor.

On 3rd April 2026, the CT (1600:800:1) was successfully replaced, and a CTR of 800:1 has been implemented at the Surajmaninagar (TPTL) end. Accordingly, the overcurrent relay settings, as approved by NERPC, have been revised to 1120 A with a TMS of 0.1.

In view of the above, the objective of the SPS scheme has been fulfilled, and it is proposed that the scheme may be withdrawn from service.

NERPC is kindly requested to accord approval for the same.

Deliberation

After due deliberation the forum agreed for decommissioning of the SPS. Also, requested TPTL to expedite the decommissioning activities.

The Sub-committee noted as above

Action: TPTL

B.9 LBB operation at Karimganj SS of Assam on 12th Feb'2026:

The Karimganj area of Assam power system is connected with rest of the Grid via 132 kV Kumarghat - Karimganj line & 132 kV Badarpur - Karimganj line.

At 19:28 hrs of 12th Feb'2026, 132 kV Kumarghat - Karimganj line & 132 kV Badarpur - Karimganj line tripped on operation of LBB protection at Karimganj end resulting in grid disturbance at Karimganj area of Assam. Load loss of 14 MW occurred.

Sl. No.	Name	Trip time (hh:mm)	Restoration time	Relay indications End 1	Relay indications End 2
1	132 kV Badarpur-Karimganj Line	19:28	20:13	DT received	LBB operated
2	132 kV Kumarghat-Karimganj Line	19:28	20:22	DT received	LBB operated

As per DR submitted from Badarpur end & Kumarghat end, at 19:28:50.631 hrs, DT was received and no fault was observed in the system.

AEGCL to update the reason of operation of LBB at Karimganj SS. Additionally requested to share the Detailed report for the Grid Events with root cause & corrective measures taken at Karimganj.

Deliberation

AEGCL informed that LBB operated at Karimganj during primary current Injection testing of the CT of ICT-1 during shutdown. Before the testing, the LBB function had been disabled in Main 2 relay however, it was unintentionally kept enabled in

the Main 1 relay which led to the unintended LBB operation at Karimganj substation. It was clarified that no actual fault occurred in the system.

PGCIL further emphasized that the LBB scheme should not remain enabled in both Main-1 and Main-2 relays during the shutdown of an element, and that all requisite conditions for LBB operation must be duly satisfied before its actuation. It was opined that a pending alarm or circuit breaker (CB) operation from a previous fault condition might have contributed to the incident. In this regard, it was advised that all CB indications and trigger conditions be thoroughly checked and reset prior to undertaking any work on the element.

Forum noted the same and advised AEGCL to ensure following the procedure as mentioned by Powergrid in future.

The Sub-committee noted as above

Action: AEGCL

B.10 Spurious tripping of 132 kV Haflong (PG) - Haflong (AS) line on 16th Feb'2026:

At 21:21 hrs of 16-02-2026, 132 kV Haflong(PG)-Haflong(AS) line tripped only from Haflong(AS) end due to intertrip command received in LDR relay.
As per PMU signal, there was no fault observed in the system.
AEGCL to update the reason of receipt of intertrip command in LDR relay at Haflong(AS).

Deliberation

NELDC informed that there was no fault in the system.

As per AEGCL, 132 kV Haflong(PG)-Haflong(AS) line tripped from Haflong(AS) end due to inter-trip received in LDR relay.

However, PGCIL informed there was no inter trip signal transmission from PG end. Requested AEGCL to check DC E/F at Haflong(AS) substation & share the event highlighting the inter trip signal received at Haflong.

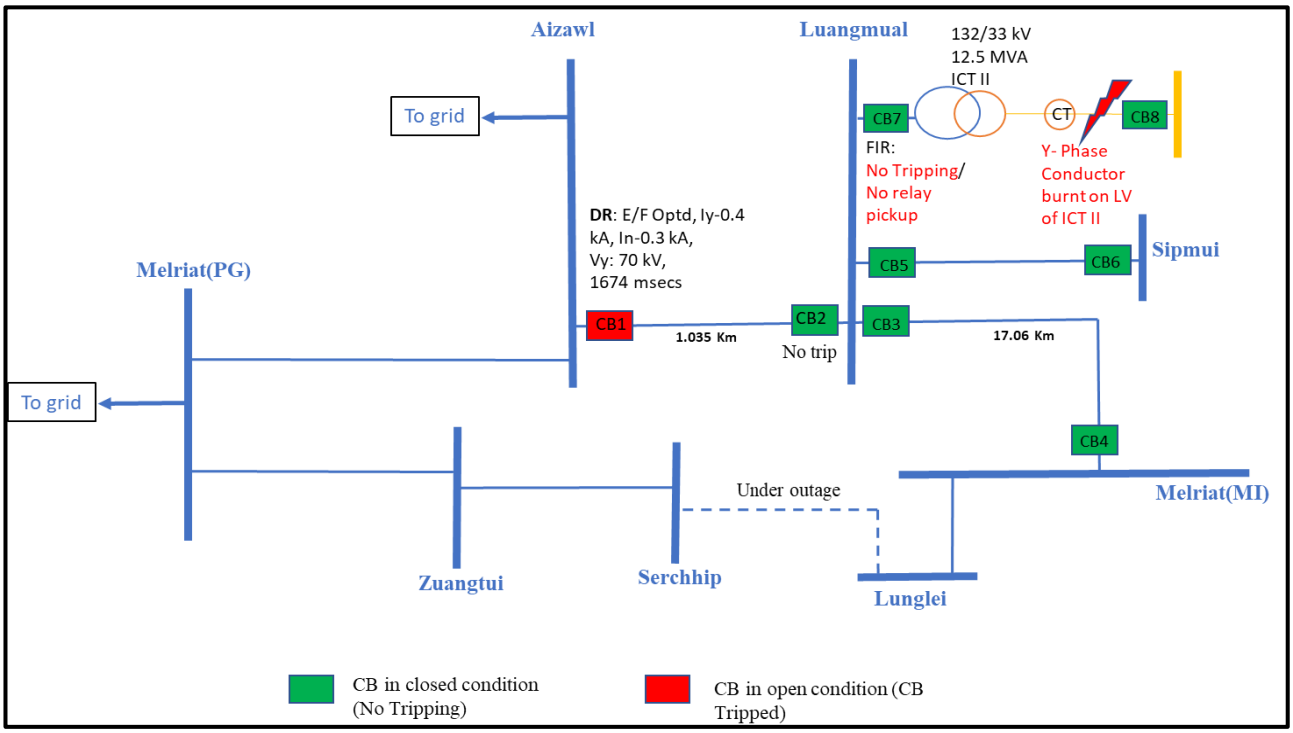
AEGCL assured to carry out the tests by the end of April'26.

The Sub-committee noted as above

Action: AEGCL

B.11 Grid Disturbance at Luangmual, Melriat and Lunglei areas of Mizoram on 20th Feb'2026:

At 03:26 Hrs of 20-02-2026, 132 kV Aizawl - Luangmual line tripped resulting in grid disturbance in Luangmual, Melriat and Lunglei areas of Mizoram and load loss of 29 MW occurred.



As per the DR analysis, tripping occurred due to operation of Backup Earth Fault protection (Iy = 0.4 kA, In = 0.3 kA, Vy = 70 kV) with a tripping time of 1674 milliseconds from Aizawl end. No tripping was observed from Luangmual end.

Fault occurred due to burning of Y-Ph conductor on 33 kV side of the 132/33 kV,12.5 MVA ICT at Luangmual. Fault should have been cleared primarily by the HV (132 kV) side protection of the transformer through operation of Backup Earth Fault protection, thereby avoiding unnecessary tripping at the upstream substation, i.e. Aizawl (PG).

P&ED Mizoram to update the reason of non-operation of HV side protection of 132/33 kV ICT at Luangmual.

Deliberation

Forum noted that HV side of ICT at Luangmual should have isolated the fault prior to the operation of the CB1 at Aizawl, indicating a case of relay mis-coordination.

Forum instructed Mizoram to coordinate the relay settings between the ICT at Luangmual and Aizawl end for Luangmual line in coordination with NERPC and NERLDC at the earliest.

NERPC requested Mizoram to provide the settings of the ICT and Aizawl end for Luangmual feeder within one week in order to carry out the coordination study.
NERTS: The TMS for EF settings for 132kV Luanagmual feeder at Aizwal SS has been changed from 0.165 to 0.4. on 20th April 2026.

The Sub-committee noted as above

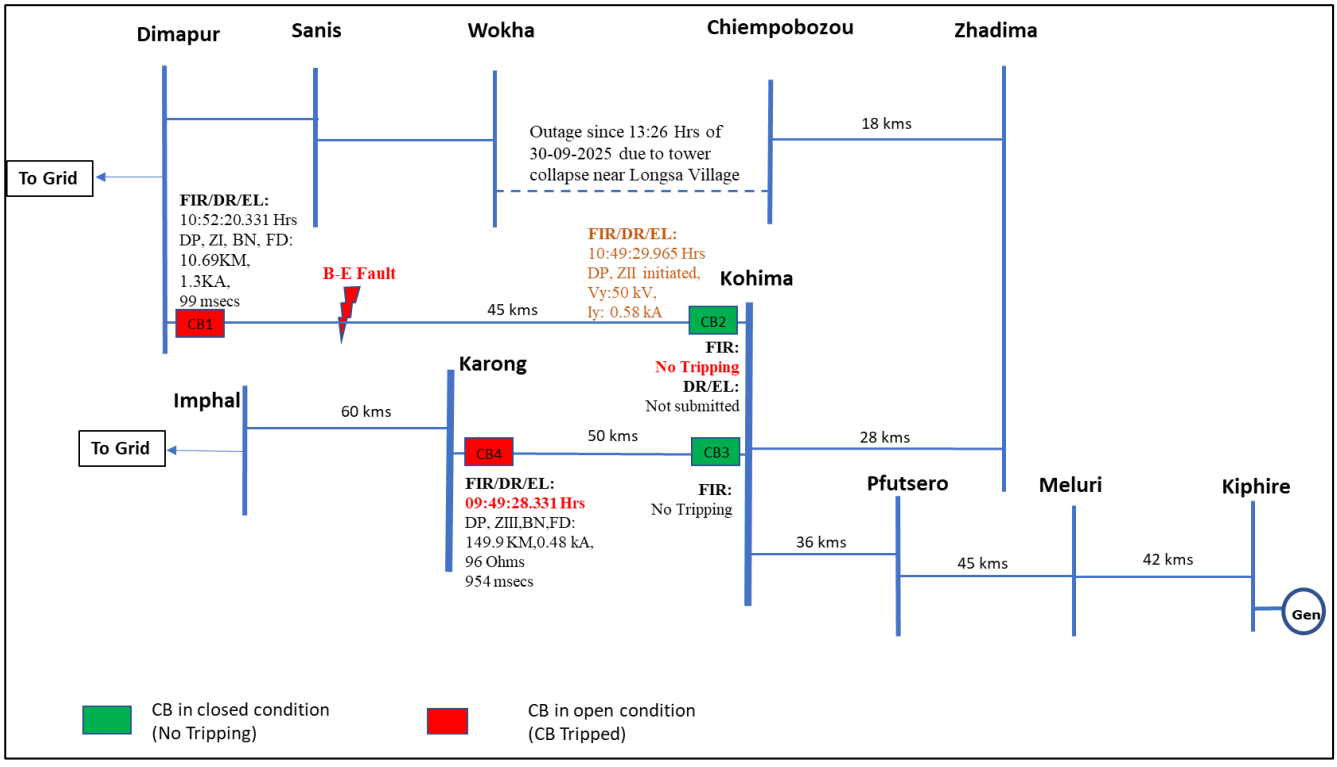
Action: Mizoram, NERPC and NERLDC

B.12 Grid Disturbance at Kohima & radially connected areas Pfutsero, Meluri, Zhadima, Chiephobozou areas & LHEP generating station of Nagaland:

The Kohima (Capital area of Nagaland) was taking power from the grid through 132 kV Dimapur(PG) - Kohima line and 132 kV Karong - Kohima line. 132 kV Wokha-Chiephobozou line under outage due to tower collapse near Longsa village.

Event 1: 10:52 hrs of 20th Feb'2026

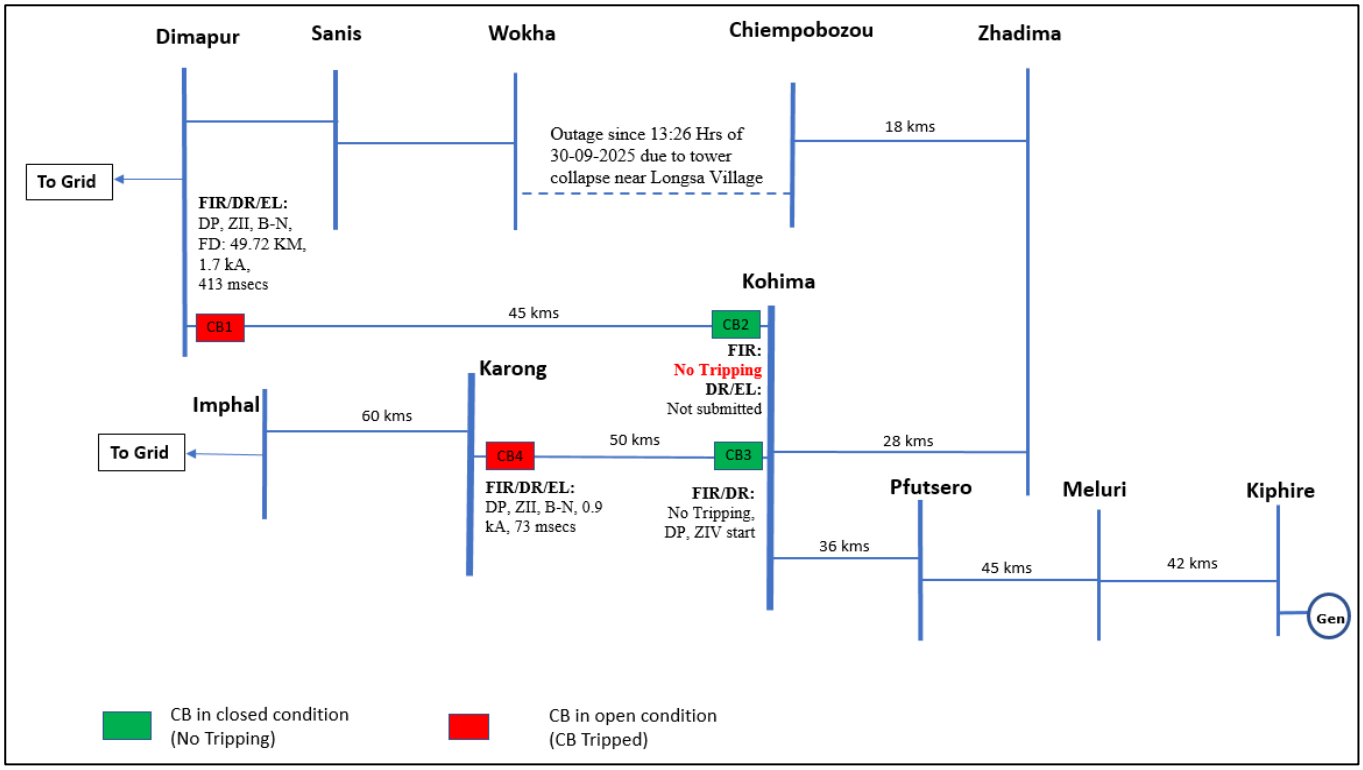
At 10.52 Hrs of 20.02.2026, 132 kV Dimapur (PG) - Kohima line and 132 kV Karong - Kohima line tripped.



As per DR analysis, likely resistive fault occurred in 132 kV Dimapur (PG) - Kohima line which was cleared from Dimapur (PG) end on operation of DP, ZI, B-N, FD: 10.69 Km,1.3 kA in 99 msecs. However, the fault was not cleared by the protection system at Kohima end till 850 msecs (ZII pickup for instances of 310 msecs & 150 msecs during the fault). Hence, the fault was cleared by tripping of adjacent 132 kV Karong - Kohima line from Karong end on operation of DP, ZIII, BN, FD: 149.9 Km,0.48 kA, 96 Ohms within 954 msec.

Event 2: 22:15 hrs of 16th March'2026

At 22:15 Hrs of 16.03.2026, 132kV Dimapur-Kohima &132 kV Karong - Kohima lines tripped.



As per DR analysis of 132 kV Dimapur-Kohima line, B-N fault (Ib-1.7 kA, In-1.7 kA) initiated at 22:15:08.687 hrs which was cleared within 413 msec from Dimapur end on operation of DP, ZII. No tripping from Kohima end.

As per DR of 132 kV Karong-Kohima line, B-N fault detected in ZII which was cleared within 73 msec from Karong end. No tripping from Kohima end, ZIV started. **It is unclear which protection system operated and cleared the fault from Karong end.**

Suspected fault was in 132 kV Dimapur-Kohima line and protection system at Kohima failed to isolate the fault which initiated tripping at Karong.

Final conclusion could not be made due to the non-submission of the DR & EL of Kohima end of 132 kV Dimapur-Kohima line.

Action points for DoP Nagaland & MSPCL:

- Non-operation of protection system at Kohima for 132 kV Dimapur(PG)-Kohima line needs to be checked. The Main Protection relay need to be tested at Kohima for Dimapur(PG) line to ensure healthiness of the protection system.
- 132 kV Chiephobozou-Wokha line is under long outage since 30.09.2025 due to tower collapse near Longsa village. Restoration of the line needs to be expedited by DoP Nagaland.
- Time drift of 63 minutes observed in the DR of Karong end of 132 kV Karong - Kohima line which needs to be rectified.

Deliberation

Event 1:

NERLDC apprised that in the DR of Kohima end it has been observed that there was intermittent pickup of ZII at Kohima end for instances of 310 msecs & 150 msecs by the Main relay of 132 kV Dimapur – Kohima line resulted into failure of timely operation of ZII at the Kohima end and hence ZII operation at Karong.

Forum instructed DoP Nagaland to –

1. Test the Main relay at Kohima for the 132 kV Dimapur – Kohima line.
2. Transplay the DR output for the tripping in the main relay to check the performance.

Event 2:

DoP Nagaland informed that the reason for no operation of protection system at Kohima end is being looked into.

NERLDC apprised that the ZIV initiation at Kohima for Karong bay raises concern that the actual fault location must be somewhere near the Kohima SS.

Forum instructed DoP Nagaland to –

1. Ensure timely submission of DR and EL so that thorough analysis of GDs may be done
2. Find out the location of fault and investigate into non-operation of protection system at Kohima and provide report to NERPC at the earliest

Forum also instructed Manipur to look into the issue of operation of ZII in 73 msec, which is not in compliance with the standard time delay of 350-500 msec.

Regarding the revival of 132kV Chiephobozou -Wokha line, DoP Nagaland updated that tower restoration works are under way and the line will tentatively be revived by end of April'26

The Sub-committee noted as above

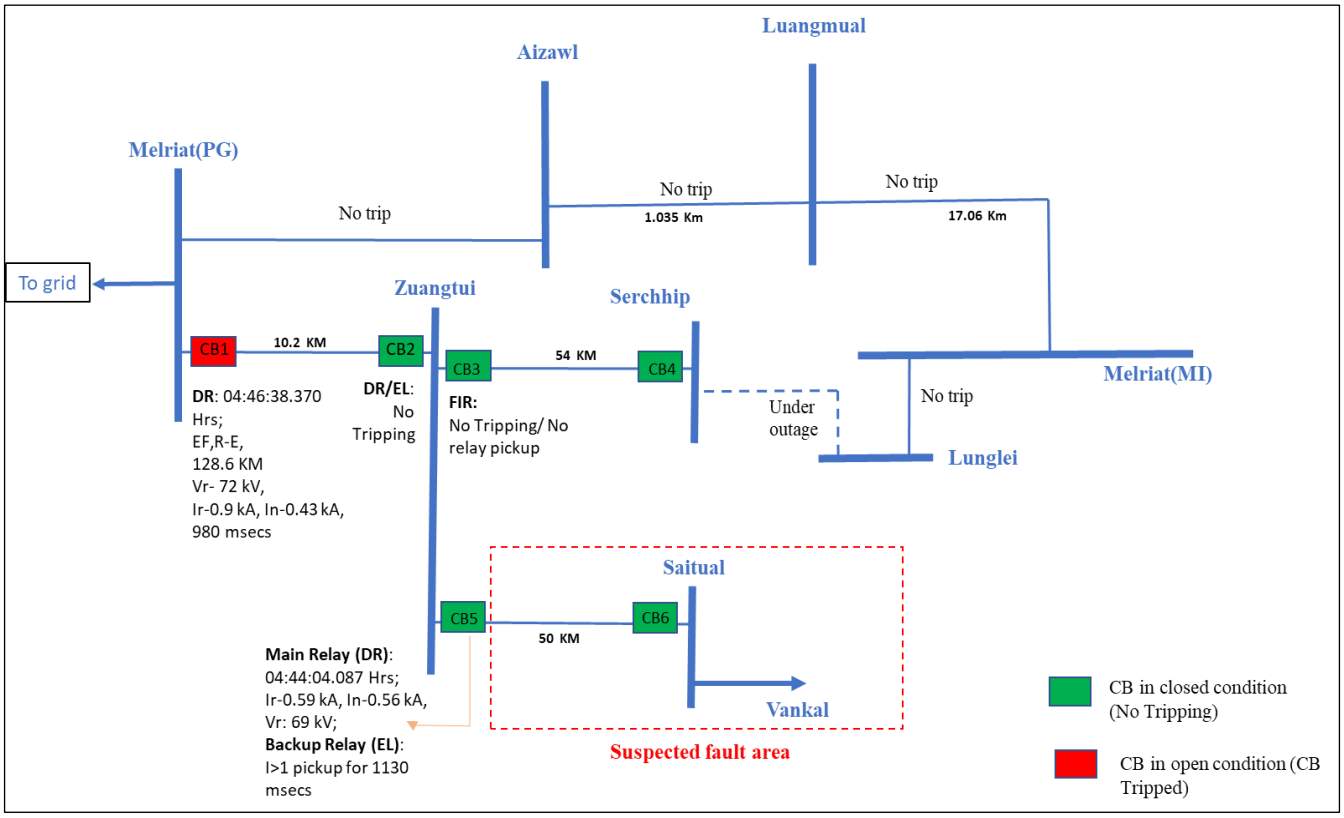
Action: Dop Nagaland and Manipur

B.13 Grid Disturbance at Zuangtui, Serchhip, Saitual and Vankal areas of Mizoram in February & March 2026:

The Zuangtui, Serchhip, Saitual & Vankal areas of Mizoram are radially connected to NER grid through 132 kV Melriat(PG)-Zuangtui line as 132 kV Serchip – Lunglei line is kept open due to system requirement.

Event 1: At 04:46 hrs of 27-Feb-2026

At 04:46 hrs of 27.02.2026, 132 kV Melriat-Zuangtui line tripped resulting in grid disturbance in Zuangtui, Serchhip, Saitual and Vankal areas of Mizoram. Load loss of 17 MW occurred.



As per the DR analysis, a high-resistance fault was detected by the backup protection at 04:46:38.370 hrs and was cleared within 980 ms through the operation of backup earth fault protection at the Melriat (PG) end. No tripping was observed from the Zuangtui end.

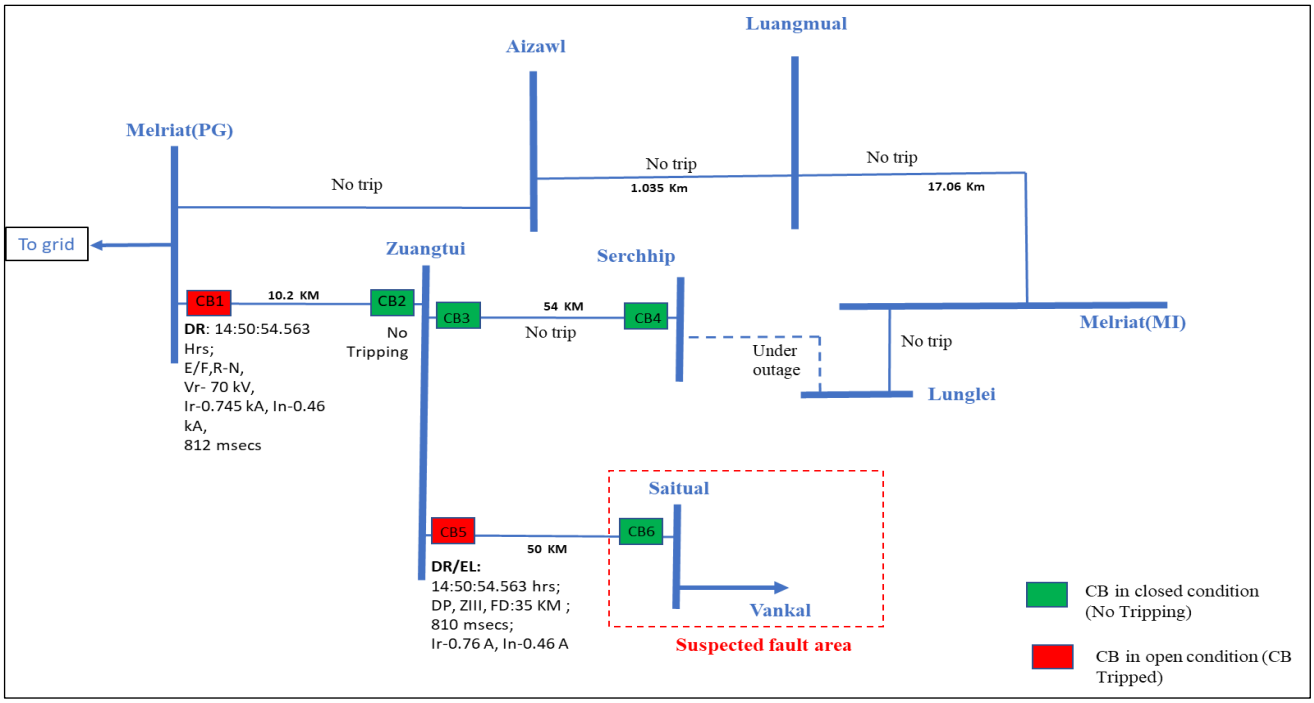
Further, the line is equipped with line differential protection (LDP), and any fault within the protected zone should ideally be cleared by LDP. However, for the 132 kV Zuangtui–Saitual line, only overcurrent (OC) pickup was observed for 1130 ms without any tripping.

Based on the above observations, it is inferred that the fault was likely located beyond Zuangtui substation, i.e., in the downstream section of Zuangtui.

Event 2: At 15:03 hrs of 13-Mar-2026

At 15:03 hrs of 13-03-2026, 132 kV Melriat-Zuangtui line tripped resulting in grid disturbance in Zuangtui, Serchhip, Saitual and Vankal areas of Mizoram. Load loss of 20 MW occurred.

As per DR analysis of 132 kV Melriat(PG)-Zuangtui line, R-N fault (Ir-0.69 A, In-43



A) initiated at 14:50:52.420 hrs. IN>1 started in different instances for few msec. At 14:50:54.563 hrs, IN>1 started and IN>1 trip after 812 msecs.

As per DR of 132 kV Zuangtui - Saitual line, R-N fault (Ir-760 A, In-460 A) initiated at 14:50:54.563 hrs and cleared on operation of DP, ZIII, FD:35 KM after 810 msecs. Suspected fault in downstream of Saitual SS.

Action points for P&ED Mizoram:

- Exact fault location needs to be updated by P&ED Mizoram.
- Non-operation of protection system of downstream elements needs to be checked. Relay pickup details of downstream lines to be shared.
- Backup E/F O/C protection at Melriat(PG) & Zuangtui SS needs to be reviewed and coordinated for downstream lines.

Deliberation

NERLDC apprised that on both the occasions, High resistive fault in the 132 kV Zuangtui – Saitual line detected by Backup relay at Zuangtui as well as upstream Melriat(PG). However, the Melriat(PG) end fault was cleared faster.

Forum noted only Zuangtui end should have tripped and relay coordination with Melriat(PG) is required.

Forum instructed Mizoram to coordinate the settings at the two ends in coordination with NERPC and NERLDC at the earliest.

NEPRC requested Mizoram to send the existing relay settings at both Zuangtui end and Melriat(PG) ends within one week so the coordination study may be carried out timely.

The Sub-committee noted as above

Action: Mizoram

B.14 Repeated Grid Disturbance in Tipaimukh area of Manipur Power System:

Tipaimukh area of Manipur power system is connected to the rest of the NER grid through 132 kV Jiribam-Tipaimukh line and 132 kV Aizawl-Tipaimukh line.

In the past 12 months, between March 2025 and March 2026, total of eight (08) grid events occurred in the Tipaimukh area of the Manipur power system which is a matter of serious concern. The details of above eight (08) number of grid events are attached as **Annexure-II.**

Following are the observations:

- CB at Tipaimukh for the 132 kV Jiribam–Tipaimukh line failed to isolate the fault in the line, leading to clearing of the fault by tripping of the healthy ISTS 132 kV Aizawl–Tipaimukh line on operation of Zone-II/Zone-III protection from the remote end. The reason for the same needs to be investigated by MSPCL.

- Non-submission of DR/EL files of Tipaimukh Substation is a matter of concern as it hampers proper event analysis and is also a non-compliance of the mandate of IEGC 2023.
- Non-availability of auto recloser facility at Tipaimukh for the 132 kV Jiribam line and the 132 kV Aizawl line.

The issue of recurring grid disturbances at Tipaimukh Substation has been consistently raised in the monthly PCC meetings and was also communicated to MSPCL vide letter No. *NERLDC/SO/2025-26/14/8996* dated *13th March 2026*. However, no corrective measures have been implemented so far, leading to continued grid disturbances in the Tipaimukh area of the Manipur power system.

MSPCL to update on the above-mentioned issues.

Deliberation

NERLDC apprised that non-operation of protection system at Tipaimukh substation remains a long pending issue and causing frequent GD's at Tipaimukh.

Forum noted that MSPCL needs to ensure DR downloading facility at Tipaimukh & perform proper fault analysis. Additionally, MSPCL should perform the necessary testing of the CB at Tipaimukh at the earliest.

MSPCL informed that laptops have been procured and will be distributed to each substation shortly, after which, system for DR downloading and sharing will be put in place. Further he mentioned that accessing Tipaimukh substation is difficult to due to prevailing Law and Order situation in the state.

The Sub-committee noted as above

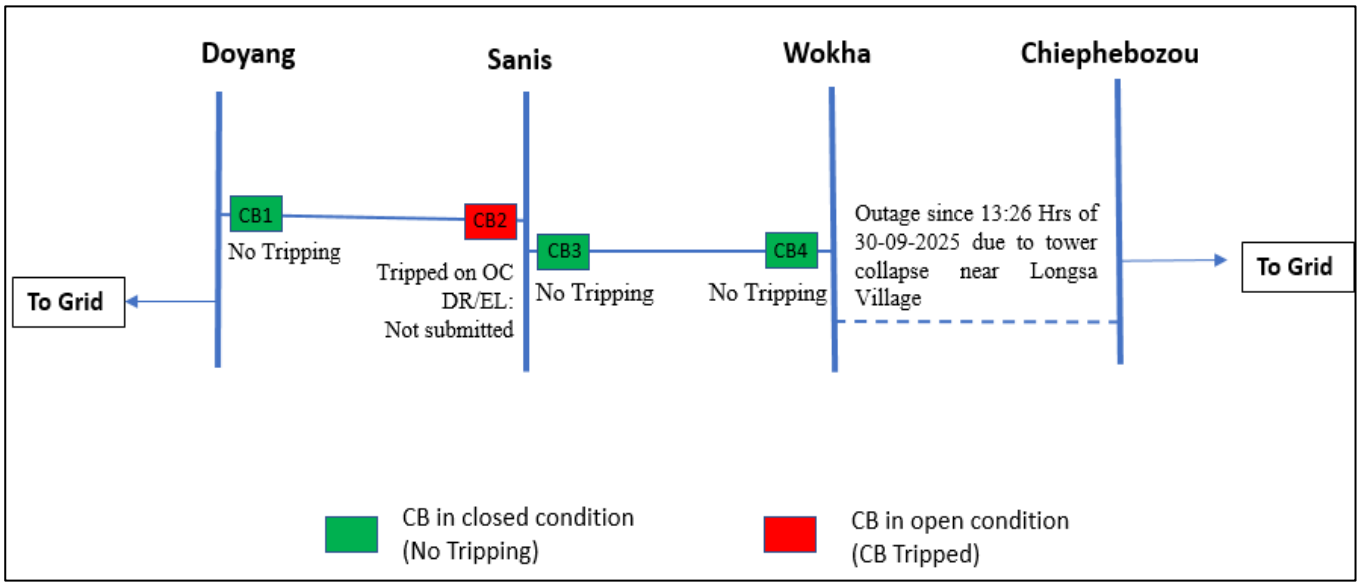
Action: MSPCL

B.15 Repeated tripping of 132 kV Doyang-Sanis Line during March'2026:

The Sanis and Wokha areas of Nagaland Power System are radially connected with rest of NER Grid through 132kV Doyang-Sanis-Wokha line. 132 kV Wokha-Chiephebozou line was under outage since 13:26 hrs of 30.09.2025 due to tower collapse near Longsa village.

NERLDC is highlighting the matter regularly in the PCC forum. 132 kV Doyang-Sanis line tripped 6 times during Mar'26. The details of tripping are shown below:

SL No.	Element Name	Owner	Tripping Date & Time	Relay_Doyang	Relay_Sanis
1	132 kV Doyang-Sanis Line	DoP, Nagaland	13-03-2026 12:53	No Tripping	Over Current
2	132 kV Doyang-Sanis Line	DoP, Nagaland	13-03-2026 15:45	No Tripping	Over Current
3	132 kV Doyang-Sanis Line	DoP, Nagaland	16-03-2026 18:16	No Tripping	Over Current
4	132 kV Doyang-Sanis Line	DoP, Nagaland	17-03-2026 16:04	No Tripping	Over Current
5	132 kV Doyang-Sanis Line	DoP, Nagaland	21-03-2026 19:49	No Tripping	Over Current
6	132 kV Doyang-Sanis Line	DoP, Nagaland	22-03-2026 11:22	No Tripping	Over Current



In 88th PCC meeting, NERPC informed that while conducting the protection audit of Sanis, suspected that the voltage signal which is fed in the BU relay might be spurious.

In 89th PCC meeting held on 19th February'2026,

- DoP Nagaland informed that a new line CVT will be installed shortly.
- Forum advised DoP Nagaland to undertake comprehensive testing of the backup protection relay in coordination with Powergrid (Dimapur) to ensure proper functionality and protection coordination.
- DoP Nagaland to enable the backup relay settings in the main distance relay.

Hence, DoP, Nagaland is requested to take immediate action on the above-mentioned points.

Deliberation

Powergrid informed that there might be issue with Analog signal inputs to the relay which should be tested thoroughly.

DoP Nagaland expressed its inability to carry out the relay test on its own and requested the forum for necessary assistance. MS NERPC requested Powergrid to extend necessary support to DoP Nagaland for the testing.

Powergrid requested Nagaland to send a formal request to them in this regard.

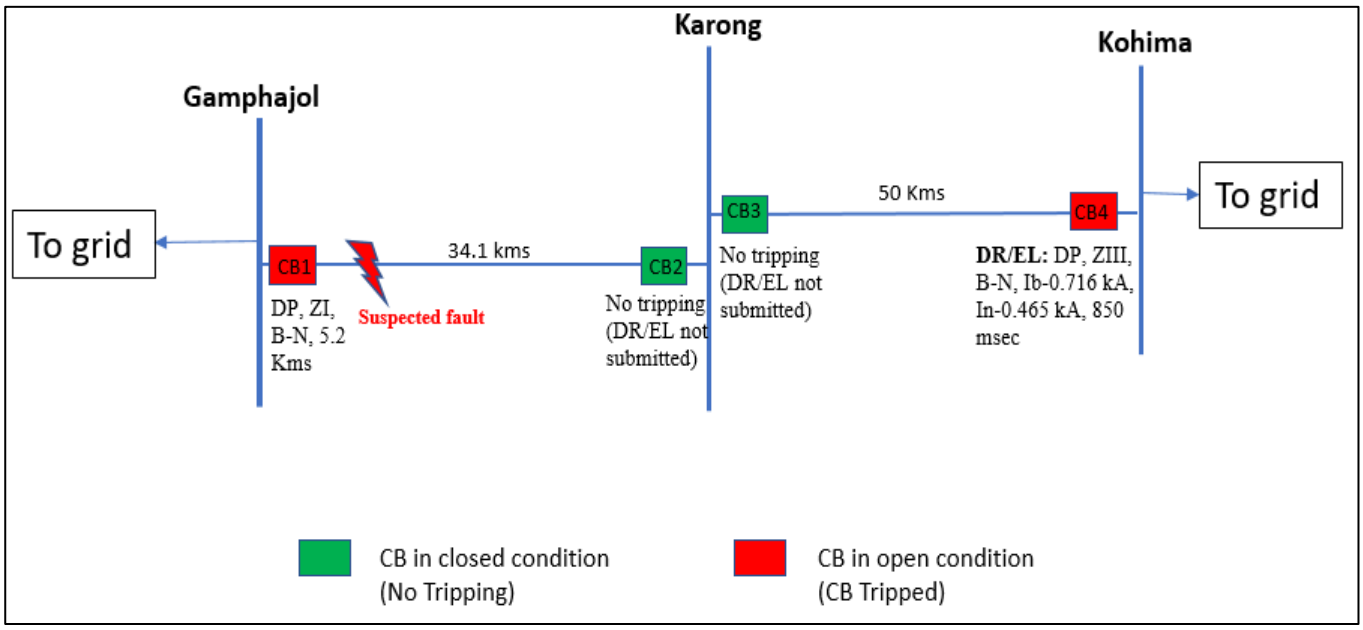
The Sub-committee noted as above

Action: DoP Nagaland

B.16 <u>Grid disturbance in Karong area of Manipur on 15th March'2026:</u>

Karong area of the Manipur Power System is connected to the rest of the NER Grid via the 132 kV Kohima–Karong and 132 kV Gamphazol-Karong lines.

At 20:52 hrs of 15-03-2026, 132 kV Karong-Kohima line & 132 kV Gamphazol-Karong line tripped resulting in grid disturbance in Karong area of Manipur. Load loss of 3 MW occurred.



As per the DR analysis at the Kohima end of the 132 kV Karong line, a B–N fault (Ib = 0.716 kA, In = 0.465 kA) was initiated at 20:50:46.964 hrs and cleared within 850 msecs through the operation of distance protection (DP), Zone-III at the Kohima end. No tripping was observed from the Karong end, indicating that the fault was beyond the 132 kV Karong–Kohima line.

As per information received from MSPCL, the B–N fault occurred on the 132 kV Gamphazol–Karong line at a distance of approximately 5.2 km from the Gamphazol end and was cleared by Zone-I protection at the Gamphazol end (DR/EL not submitted). However, no tripping was observed from the Karong end.

MSPCL is requested to share the root cause of the tripping and to examine the non-operation of CB2 at Karong for the 132 kV Gamphazol line.

Deliberation

NERLDC apprised that the fault could not be thoroughly analyzed as DR form Karong substation have not yet been provided. MSPCL informed that there is no DR downloading facility at the substation due to non-availability of laptop. However, he added that the laptops have been procured and they are being distributed to the substations in the state, so the DR downloading facility will be ensured shortly.

The forum instructed MSPCL to -

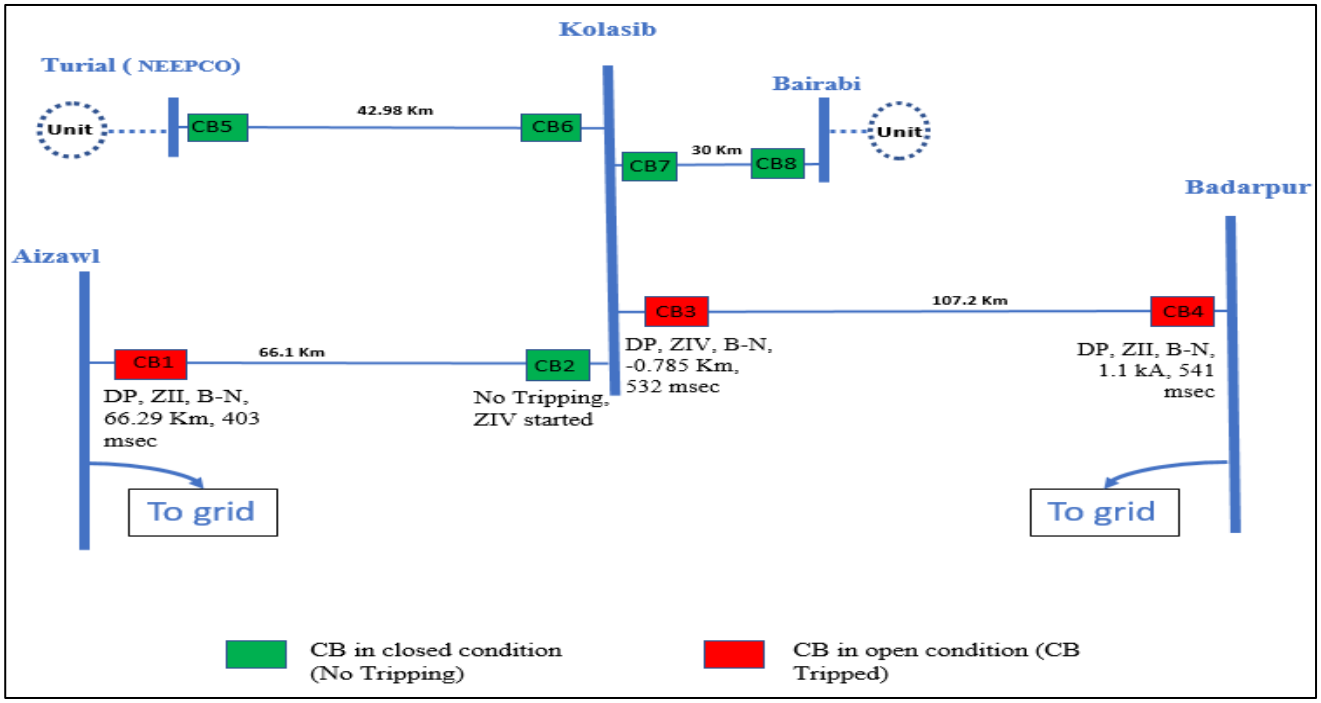
1. ensure DR downloading facility at every substation in the state,
2. ensure timely submission of the DR
3. perform proper fault analysis.
4. perform the necessary testing of the CBs at Karong at the earliest

The Sub-committee noted as above

Action: MSPCL

B.17 Grid Disturbance in Kolasib, Bairabi and Tuirial area of Mizoram on 17th March'2026:

At 04:19 hrs of 17-03-2026, 132 kV Aizawl-Kolasib and 132 kV Badarpur-Kolasib lines tripped leading to loss of power in Kolasib, Tuirial and Bairabi area of Mizoram Power system.



As per the DR analysis of the 132 kV Badarpur–Kolasib line, a solid B–N fault (Ib = 1.1 kA, In = 0.9 kA) was initiated at 04:19:30.172 hrs and subsided within 143 msecs. Subsequently, after 580 msecs, the B–N fault re-initiated and was detected in Zone-II, which was cleared within 541 msecs from the Badarpur end. The Kolasib end cleared the fault within 532 msecs through the operation of distance protection (DP), Zone-IV.

Further, as per the DR analysis of the 132 kV Aizawl–Kolasib line, a B–N fault was detected and cleared within 403 msecs from the Aizawl end on operation of distance protection, Zone-II. No tripping was observed from the Kolasib end.
Based on the above observations, the fault is suspected to have occurred within the Kolasib substation.

Action points for P&ED Mizoram:

- Share the exact fault location and root cause.
- IN>1 & I>1 start observed in DR at Kolasib end for 132 kV Aizawl line. Directionality of B/U relay needs to be checked and forward direction to be ensured.
- A time drift of approximately 3 minutes has been observed at Kolasib for both 132 kV Aizawl and 132 kV Badarpur lines, which needs to be rectified.

Deliberation

Mizoram apprised that the exact location of the fault could not be ascertained. The forum suspected that the fault could be either in downstream of Kolasib or in the switchyard of the substation.

Forum instructed Mizoram to ensure proper recording of the fault in the DR & EL of relay for all the events at Kolasib. Also, MRT team was instructed to carry out proper event analysis for the tripping at Mizoram and share exhaustive analysis in the Detailed Report for the Grid Events within 10 days.

The Sub-committee noted as above

Action: Mizoram

B.18 Grid Disturbance in Leshka HEP, Goldstone & Mynkre area of Meghalaya on 15th March'2026:

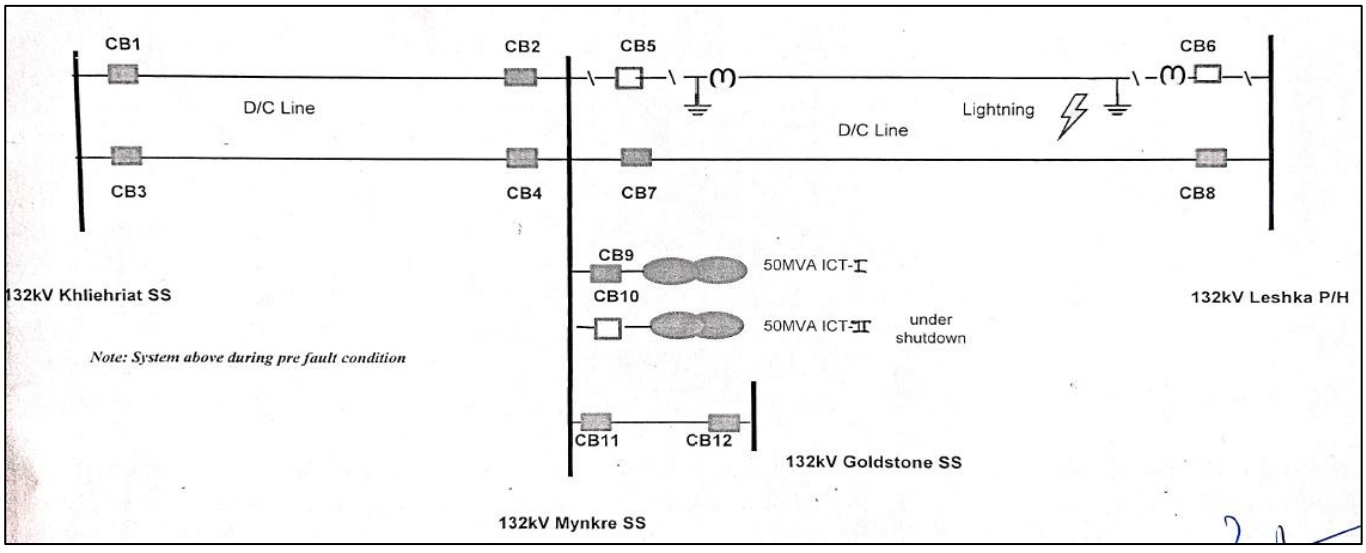
Leshka HEP of the Meghalaya is radially connected to the rest of the NER Grid via 132 kV Leshka-Mynkre D/C lines. Mynkre is radially connected to Khliehriat via

132kV Mynkre- Khliehriat D/C lines. Also, Goldstone is radially connected to Mynkre via 132 kV Mynkre – Goldstone line.

At 15:58 hrs of 15.03.2026, due to tripping of all outgoing feeders at Mynkre SS, resulted the GD at Mynkre, Leshka P/S and Goldstone P/S. Generation loss of 75 MW occurred.

The details of tripping are listed below:

Sl. No.	**Name**	**Trip time (hh:mm)**	**Restoration time**	**Relay indications End 1**	**Relay indications End 2**
1	132kV Khliehriat-Mynkre line 1	15:58	16:17	No Tripping	LBB optd
2	132kV Khliehriat-Mynkre line 2	15:58	16:18	No Tripping	LBB optd
3	132 kV Leshka - Mynkre-II Line	15:58	16:20	DP, ZI	DP, ZII, B-N, 33.44 km
4	132 kV Leshka-Mynkre I Line	-	-	Line under shutdown	



Fault has occurred on the 132 kV Mynkre- Leshka line-2 where the distance protection picked up in Zone-2, FD: 33.44 KM from Mynkre Sub-Station, but before the Zone-2 trip occurred, at 300 ms fault duration, all the outgoing feeders at Mynkre SS tripped with 50BF (LBB) protection.

DR of the 132kV Mynkre- Leshka line-1 was examined, it was found that the relay at Mynkre has operated with Zone-1 even when the CB5 was already in OFF condition and due to the persistence of fault current, the relay of this idle feeder then issued LBB trip command which has resulted in the above system disturbance. Suspected that due to the absence of the line side isolator, the CTs are always positioned towards the line even when both isolators are opened. When 132 kV Mynkre-Leshka I line is under shutdown and earthed as shown, lightning strikes in the line may have caused the fault current to flow towards the earthed point through the CTs resulting in the relays to trip but since the CB was already OFF, LBB operated at 200msec.

MePTCL to share the corrective action taken regarding unwanted LBB operation at Mynkre SS.

Deliberation

Meghalaya apprised that lightning struck on Leshka-Mynkre ckt I which was already under shutdown. Further at Mynkre end, CT was positioned before the Earth Switch, therefore the lightening discharge current flowed through the CT, resulting in CT registering a fault current. Further, it was found that the relay had operated with Zone-1 (Vph: 100. V each, Iph: 170-370 A each) caused due to induction of the small voltage in the CVT as well as persistence of fault current in the CT arising from the earth switch being positioned downstream of the CT, even though the circuit breaker was in the open condition. Consequently, the relay at Mynkre of this idle feeder then issued the LBB trip command which has resulted in the above system disturbance at Mynkre & radially fed Leshka & Goldstone areas.

The forum opined that occurrence of such events are very rare in nature. However, to reduce the tripping due to lighting fault necessary measures such as maintaining TFR <10 Ohm and further installation of the TLSA in highly lightening prone areas as a long-term measure.

The Sub-committee noted as above

Action: MePGCL and MePTCL

B.19 Frequent tripping of 132 kV Loktak-Rengpang line and grid disturbance in Rengpang area of Manipur:

Rengpang area of Manipur power system is connected to Loktak (NHPC) through 132 kV Loktak – Rengpang line due to the long outage of 132 kV Rengpang – Jiribam (MA) line.

During Feb'26 & Mar'26, 132 kV Loktak – Rengpang line tripped 5 number of times causing grid disturbance in Rengpang area of Manipur power system.

The details of tripping are listed below:

SL No.	Element Name	Owner	Tripping Date & Time	Relay_Loktak	Relay_Rengpang
1	132 kV Loktak - Rengpang Line	MSPCL	28-02-2026 11:16	DP, Z1, B-N, 2.5 kA, 14.34 Km, 81 msec	No tripping (radial)
2	132 kV Loktak - Rengpang Line	MSPCL	28-02-2026 12:11	DP, Z1, Y-N, 7.34 Km, 2.6 kA, 82 msec	No tripping (radial)
3	132 kV Loktak - Rengpang Line	MSPCL	13-03-2026 14:14	I>1 trip, Ir-467 A, Iy-453 A, Ib-433 A	No tripping (radial)
4	132 kV Loktak - Rengpang Line	MSPCL	15-03-2026 01:18	DP, ZI, R-Y, 22.87 Km, 3.6 kA, 92 msec	No tripping (radial)
5	132 kV Loktak - Rengpang Line	MSPCL	28-03-2026 11:19	DP, ZI, B-N, 14.1 Km	No tripping (radial)

MSPCL is requested to exercise periodic maintenance for reducing the tripping of the line.

Deliberation

MSPCL apprised that most of the faults occur due to vegetation infringement.

Forum instructed MSPCL to –

1. ensure vegetation clearance of the 132 kV Loktak -Rengpang line, as this line is only feeding source for Rengpang area
2. restore the 132 kV Jiribam – Rengpang line which is under long outage since 17th Nov'23 due to Tower shifting required due to NHIDCL work.

The Sub-committee noted as above

Action: MSPCL

B.20 Non tripping of Tipaimukh end CB for 132kV Jiribam-Tipaimukh feeder

On 02.03.26, a B-G fault occurred in 132 kV Jiribam-Tipaimukh line. Due to non-opening of Tipaimukh end CB for Jiribam feeder, it led to the unwanted tripping of 132 kV Aizwal -Tipaimukh feeder at Aizwal end on Z3 protection after 800 msec. There have been previous instances of similar nature wherein the fault was in

Jiribam-Tipaimukh feeder which was not cleared by the CB at Tipaimukh end leading to unwanted tripping from Aizwal end for Aizwal-Tipaimukh feeder.
MSPCL is requested to kindly review the reason for non-tripping of the Tipaimukh end CB for the 132kV Jiribam-Tipaimukh feeder.

Similar incident has occurred previously also on 30.06.25 at 12:48 hrs for which rectification was requested.

MSPCL is requested to look into the protection settings and CB trip testing at Tipaimukh Ss for 132kV Jiribam & 132kV Aizwal feeder.

Deliberation

Refer to discussion in B.14

The Sub-committee noted as above

B.21 Non-working of Auto Reclose function for 132kV Melriat-Zemabawk feeder at Zemabawk end:

On 20.03.2026, during a line fault on 132kV Melriat-Zemabawk feeder, it was noted the AR was not attempted for 132kV Melriat-Zemabwk feeder at Zemabwk end.
Similar incident of not attempting of AR was noted during line fault on 30.03.2026.
Zemabawk end bay as well as CRP is owned by DoP Mizroram.
The issue of non-working of AR function at Zemabawk end was recorded during Line Diff Relay installation by NERTS and same was conveyed to DoP Mizoram in June 2023. Rectification maybe carried out by DoP Mizoram at the earliest.

Deliberation

Mizoram apprised that some signal mapping, for enabling AR, to the LDR is pending, therefore AR is non-operational. Further, they assured that the work will be completed shortly.

The Sub-committee noted as above

Action: Mizoram

B.22 Frequent tripping of 132kV Dimapur-Kohima feeder:

There have been several instances of tripping of 132kV Dimapur-Kohima feeder in 2025-26. The feeder is owned by DoP Nagaland. Due to the frequent tripping, the GIS CB operating mechanism at Dimapur Ss (owned by NERTS) has been stressed

significantly leading to wanted Busbar trip at Dimapur Ss on Oct 2025 due to GIS CB mechanism issue of Kohima feeder. Thereafter several reminders haven issued from NERTS to DoP Nagaland for clearance of vegetation in the Kohima feeder.

In the year 2022, the whole mechanism of the circuit breaker was replaced as there has been wear and tear resulting from the impact of frequent fault in the Kohima feeder. There have been 36 nos. of trippings in the 132kV Dimapur-Kohima feeder from 12.03.25 to 28.03.2026.

DoP Nagaland is requested to ensure clearance of vegetation for the 132kV Dimapur-Kohima feeder so as to prevent excessive tripping of the GIS CB.

Deliberation

The forum noted that the issue has been long pending and has caused numerous tripping of the line, which is critical for supplying power to the capital region of Nagaland.

MS NERPC took serious note of the issue and stated that the matter will be taken with the highest level of DoP Nagaland to ensure early resolution.

The Sub-committee noted as above

Action: DoP, Nagaland, NERPC.

B.23 Spurious tripping of Misa Kopli#3 on 02.04.2026:

On 02.04.2026, Misa-Kopili#3 feeder tripped on 16:59 hrs due to receipt of DT from Kopili end. Since the Kopili end CRP as well as the PLCC in the link is owned by NEEPCO hence it is requested to NEEPCO to review the reason for the spurious tripping and rectify it.

Deliberation

NEEPCO informed that during the incident, BCU at Kopili had got hanged and consequently DT was sent. Further, it was updated that the issue has been resolved now.

The Sub-committee noted as above

C. FOLLOW–UP AGENDA ITEMS

C.1 Mapping of SPS in the SCADA Display for real time monitoring of all SPS:

(Ref: Agenda C.1 88th PCCM |19th February 2026)

NLDC has submitted the Guidelines on "Interfacing Requirements" after stakeholder consultation for approval of the Commission as mentioned in the Regulation 7.4, read with Regulation 14.2 of the Communication System for inter-State transmission of electricity) Regulations,2017. On dated 19-Jan-2024, CERC approved the guideline on "Interfacing Requirements" prepared by NLDC in consultation with the stakeholder. As per the Guideline, real time telemetered is SPS Signal need to be monitored. The digital status shall be as per IEC standard. Digital Status for circuit breaker must be double point while isolator status can be either single point or double point as per end device. All users shall comply with interface requirements as specified and shall share interface details with respective Control Centre.

Sl. No.	Description	Analog Points	Digital Points	Protection Signal
1	SPS Signal		DIGITAL STATUS: Enable/Disable, Operated/No Operated (Condition/Logic Wise)	

Present Status of SPS mapping in SCADA Display

Sl. No.	SPS under operation	SPS mapping status in SCADA (YES/No) as per 88th PCCM
1	SPS related to outage of 220 Misa-Samaguri D/C lines	NO Mapping will be done shortly by last Week of March 2026
2	Related to outage of any one circuit of 220 kV Balipara-Sonabil D/C lines	NO Mapping will be done shortly by last Week of March 202
3	Outage of 220 kV BTPS (Salakati) – Rangia I & II Line	NO Mapped till SLDC. SLDC to coordinate with NERLDC
4	SPS related to generation evacuation from Loktak HEP	NO As per NHPC, SCADA system is not available at Loktak. Mapping of SPS at Loktak HEP will take time & it will be completed after renovation work at Loktak plant.

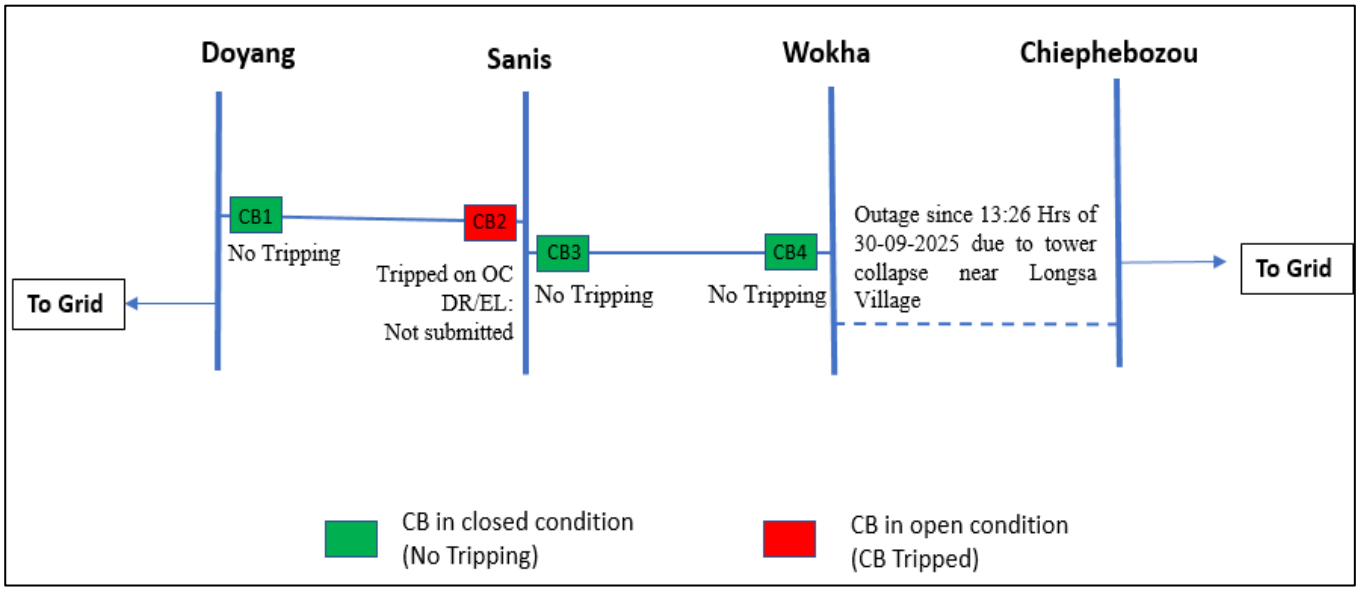
All the utilities are requested to update the status of Mapping of SPS in the SCADA Display.

C.2 Repeated Grid Disturbance in Sanis & Wokha areas of Nagaland during Jan'26:

Sanis and Wokha areas of Nagaland Power System are radially connected with rest of NER Grid through 132kV Doyang-Sanis-Wokha line. 132 kV Wokha-Chiephobozu line was under outage since 13:26 hrs of 30.09.2025 due to tower collapse near Longsa village.

NERLDC is highlighting the matter regularly in the PCC forum. The tripping of 132 kV Doyang-Sanis line tripped 5 times during Jan'26. The details of tripping are shown below:

S.No	Element Name	Owner Name	Tripping Date and Time	Relay_Doyang	Relay_Sanis
1	132 kV Doyang-Sanis Line	DoP, Nagaland	02-01-2026 16:23	No Tripping	Tripped on O/C
2	132 kV Doyang-Sanis Line	DoP, Nagaland	05-01-2026 13:10	No Tripping	Tripped on O/C
3	132 kV Doyang-Sanis Line	DoP, Nagaland	06-01-2026 14:46	No Tripping	Tripped on O/C
4	132 kV Doyang-Sanis Line	DoP, Nagaland	19-01-2026 06:15	No Tripping	Tripped on O/C
5	132 kV Doyang-Sanis Line	DoP, Nagaland	26-01-2026 12:07	No Tripping	Tripped on O/C



Protection issues-

Repeated spurious tripping of Sanis-Doyang line from Sanis end on B/U protection operation.

Remedial measures and work progress-

In 88th PCCM, DoP Nagaland informed that hitherto voltage signal was taken from Bus PT for the relays at Sanis for Doyang line. He added that the voltage signal will now be taken from a new CVT which will installed shortly.

Forum advised DoP Nagaland to test the relay holistically in assistance with Powergrid (Dimapur). Powergrid apprised that the relay testing kits are available at Dimapur substation and urged DoP to utilize those kits for relay testing.

Deliberation

DoP Nagaland informed that the necessary tests of the relay at Sanis will be carried out shortly with assistance of Powergrid.

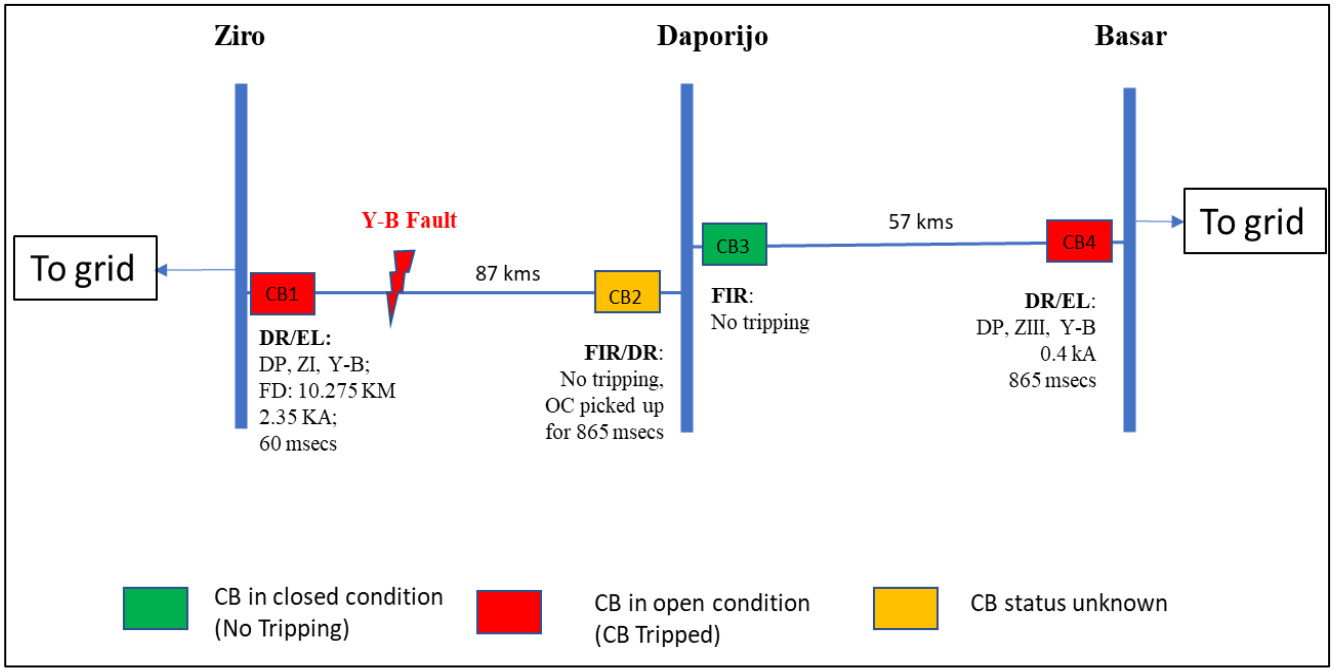
The Sub-committee noted as above

Action: DoP, Nagaland.

C.3 Repeated Grid Disturbances at Daporijo area of Arunachal Pradesh in January'26:

At 08:43 Hrs on 27th January 2026, a Y-B fault (Iy, Ib: 2.35 kA) occurred on the 132 kV Ziro–Daporijo transmission line. The fault was detected and cleared from the Ziro end within 60 msecs through operation of DP, Zone-1 protection (Y-B), with a fault location indication of 10.275 km.

However, the protection system at the Daporijo end failed to clear the fault within the stipulated time and operated only after more than 800 msecs. Subsequently, the Basar end protection detected the Y-B fault (Iy: 380 A, Ib: 360 A) in Zone-III and cleared the fault in 865 msecs.



Protection issues – non-operation of CBs at Daporijo end

Remedial measures and work progress -

there are issues with the CBs as they are of Pneumatic type and old, need to replaced spring charging type CB.

Deliberation

DoP Ar. Pradesh informed that new CBs have reached the site and replacement of the existing CBs will be done shortly.

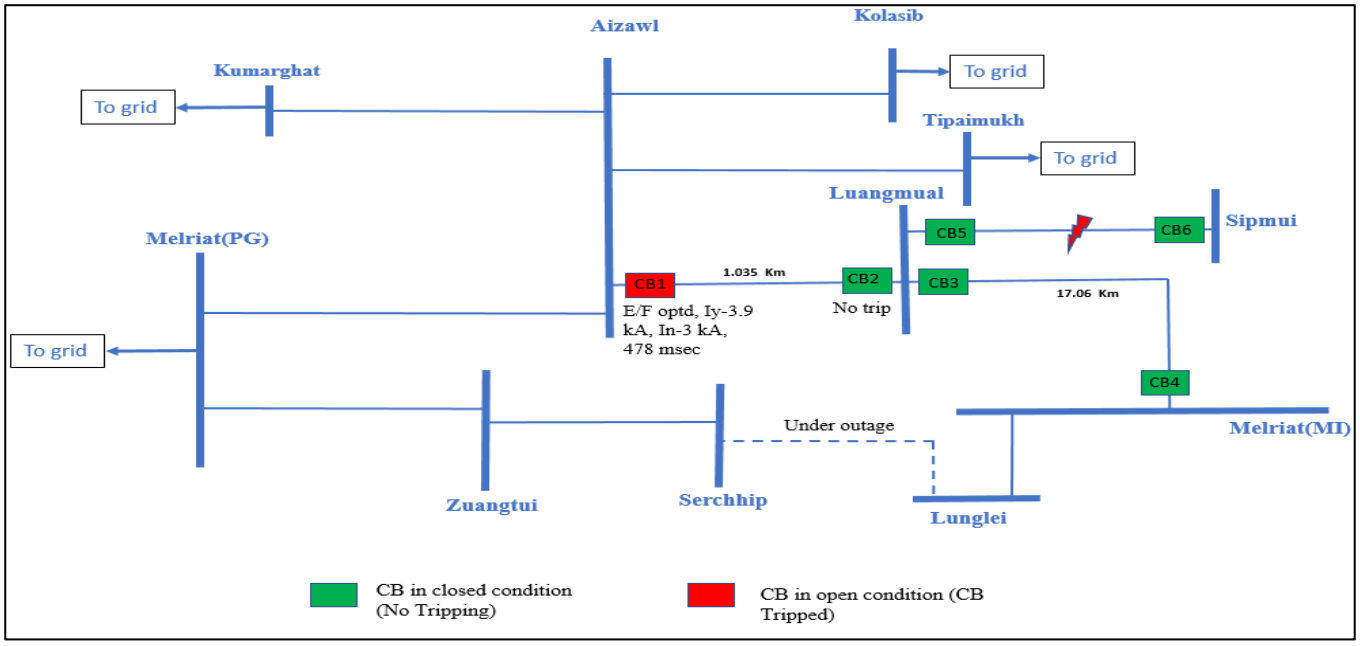
The Sub-committee noted as above

Action: DoP, Arunachal Pradesh

C.4 Grid Disturbance in Luangmual, Melriat & Lunglei areas of Mizoram Power System on 4th Dec'25:

(Ref: Agenda B.10| 87th PCCM |19th January 2026)

At 12:40 Hrs of 08-12-2025, 132 kV Aizawl - Luangmual Line tripped leading to GD at Luangmual, Melriat & Lunglei areas of Mizoram. Load loss of 39 MW occurred.



Remedial actions and work progress-

Mizoram informed, in 88th PCCM, regarding the non-operation of CB5, that no differential or distance protection has been provided on the line, only backup OC/EF is provided. He added that the CVT of the line will be replaced at Luangmual and Distance protection will be provided shortly for the line.

Regarding EF protection time delay at Aizawl end for Luangmual feeder, Powergrid updated that the TMS will be revised shortly.

Deliberation

Mizoram updated that CVT at Luangmual has been replaced and the Distance protection has been provided.

The Sub-committee noted as above

C.5 Tripping of 220 kV Balipara Bus-I & II on 23rd Nov'25:

(Ref: Agenda C.3 87th PCC| 19th January 2026)

At 17:55 Hrs of 23.11.2025, 220 kV Balipara Bus-I & Bus-II tripped due to operation of Bus Bar protection as tabulated below:

Bays In BUS A	Bays in BUS B	Bays Tripped
HV 220 kV ICT#1 Bay-219	HV 220 kV ICT#2 Bay -220	All Feeders connected to Bus-A and Bus-B
LV 400 kV ICT#1 Bay- 202	LV 400 kV ICT#2 Bay-205	
Sonabil#2 Bay -204	Sonabil#1 Bay-203	

Pending Protection issues -

i. non-operation of SPS at Sonabil during the tripping of the 220 kV Balipara-Sonabil I & II lines.

ii. Failure of DT transmission during BB operation from Balipara end

Remedial actions and work progress -

PowerGrid updated, in 88th PCCM, that LBB relay has to be integrated with DT circuit and DTPC belongs to Assam, so he requested for Assam's cooperation on the matter. AEGCL informed that they are planning to complete the work in 1st week of March'26 and they have planned for shutdown accordingly.

Deliberation

Assam updated that integration of LBB with DT circuit has been completed.

The Sub-committee noted as above

Action: AEGCL

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Annexure-I

List of Participants in the 89th PCC Meeting held on 21.04.2026

SN	Name & Designation	Organization
1	Sh. M.Pertin, EE (E)	Ar. Pradesh
2	Sh. P.B.Sarmah, DGM, APGCL	Assam
3	Sh. K. Kalita, Dy.Mgr, AEGCL	Assam
4	Sh. Safir Ahmed, Dy.Mgr, AEGCL	Assam
5	Sh. Shairem Anilkumar Singh, Sr.Mgr,MSPCL	Manipur
6	Sh. Sumpi Riningam, JE, MSPCL	Manipur
7	Sh. C.Daniela, EE	Mizoram
8	Sh. Lalramchhunga, AE, SLDC	Mizoram
9	Sh. A.G.Tham, AEE, MePTCL	Meghalaya
10	Sh. Alvin Shullai, AEE, MePGCL	Meghalaya
11	Sh. Namheu Khate, EE (T)	Nagaland
12	Sh. Alex E.Ngullie, JE	Nagaland
13	Sh. E.Limhachan Kikon, JE	Nagaland
14	Sh. Santanu Das, DGM, TPTL	Tripura
15	Sh. Somara Lakra, CGM I/c	NERLDC
16	Sh. Neeraj Kumar, CGM (SO)	NERLDC
17	Sh. Utpal Das, DM	NERLDC
18	Sh. Manash Jyoti Baishya, Ch.Mgr	PGCIL
19	Sh. Sundar Moni Mohan, DGM	NEEPCO
20	Sh. Bhaskar Mazumder, DGM (T)	NEEPCO
21	Sh. Soubhik Choudhury, Head-Operation	OTPC
22	Sh. Prateek Aman, AM	APRAAVA (KMTL)
23	Sh. Gyanankur Sonowal, DGM	NTPC
24	Sh. Jaganath Pani, Sr. Mgr	NHPC
25	Sh. Rabi Choubey, Engineer	PRDC
26	Sh. Sudip Chanda, Engineer	PRDC
27	Sh. B.Lyngkhoi, Member Secretary	NERPC
28	Sh. D.K.Bauri, Director	NERPC
29	Sh. Veerandranath Muncha, Director	NERPC
30	Sh. B.Lenin, Dy.Director	NERPC
31	Smti Kanchan Chauhan, Dy.Director	NERPC
32	Sh. Vikash Shankar, Asst. Director	NERPC

List of Grid Events occurred during February'2026

Sl. No.	Category of Grid Event (GD-1 to GD-5 and Nearmiss, GI-I & II)	Affected Areas	Time and Date of occurrence of Grid Event	Duration	Generation Loss (MW)	Load Loss (MW)
1	GD I	Wokha area of Nagaland	05-02-2026 18:35:00	13:32:00	0	0.4
2	GD I	PK Bari area of Tripura	06-02-2026 05:16:00	01:35:00	0	23
3	GD I	Karimganj area of Assam	12-02-2026 19:28:00	00:45:00	0	5
4	GD I	Haflong(AS) area of Assam	16-02-2026 21:21:00	00:17:00	0	0
5	GD I	Lungmual, Melriat and Lunglei areas of Mizoram	20-02-2026 03:26:00	03:02:00	0	74
6	GD I	Kohima, Meluri, Zhadima, Chiephbozou areas & Likimro HEP generating station of Nagaland	20-02-2026 10:52:00	00:43:00	0	19
7	GD I	Zuangtui, Serchip, Saitual and Vankal areas of Mizoram	27-02-2026 04:46:00	00:41:00	0	1.1

8	GD I	Rengpang area of Manipur	28-02-2026 11:15:00	00:26:00	0	6
9	GD I	Rengpang area of Manipur	28-02-2026 12:11:00	1.15625	0	6

List of Grid Events occurred during March'2026

Sl. No.	Category of Grid Event (GD-1 to GD-5 and Nearmiss, GI-I & II)	Affected Areas	Time and Date of occurrence of Grid Event	Duration	Generation Loss (MW)	Load Loss (MW)
1	GD I	Tipaimukh area of Manipur	02-03-2026 11:08	00:51:00	0	0.4
2	GD I	Churachandpur, Elangkangpokpi & Thanlon areas of Manipur	05-03-2026 10:43	00:17:00	0	23
3	GD I	Deomali area of Arunachal	05-03-2026 11:22	00:18:00	0	5
4	GD I	Tuirial area of Mizoram	09-03-2026 15:27	00:12:00	0	0
5	GD I	Mawlai & Cherapunji areas of Meghalaya	11-03-2026 14:55	00:16:00	0	74

6	GD I	New Shillong area of Meghalaya	12-03-2026 11:13	01:20:00	0	19
7	GD I	Nangalbibra area of Meghalaya	13-03-2026 07:53	00:36:00	0	1.1
8	GD I	Sanis and Wokha areas of Nagaland	13-03-2026 12:53	00:36:00	0	6
9	GD I	Tuirial area of Mizoram	13-03-2026 13:07	05:58:00	22	0
10	GD I	Zuangtui, Serchhip, Saitual and Vankal areas of Mizoram	13-03-2026 15:03	00:40:00	0	20
11	GD I	Sanis and Wokha areas of Nagaland	13-03-2026 15:45	23:58:00	0	6
12	GD I	Rengpang area of Manipur	13-03-2026 14:14	23:08:00	0	2
13	GD I	Tuirial area of Mizoram	13-03-2026 21:12	00:06:00	23	0
14	GD I	Tuirial area of Mizoram	14-03-2026 18:24	00:38:00	0	0
15	GD I	Tipaimukh area of Manipur	15-03-2026 00:45	00:55:00	0	1
16	GD I	Tuirial area of Mizoram	15-03-2026 00:30	01:39:00	0	0

17	GD I	Rengpang area of Manipur	15-03-2026 01:18	15:07:00	0	1
18	GD I	Tuirial area of Mizoram	15-03-2026 14:32	01:11:00	0	0
19	GD I	Leshka HEP & Mynkre area of Meghalaya	15-03-2026 15:58	00:22:00	75	0
20	GD I	Karong area of Manipur	15-03-2026 15:58	06:07:00	0	3
21	GD I	Dharmanagar areas of Tripura and Dullavchera area of Assam	16-03-2026 00:52	09:40:00	0	9
22	GD I	Karong area of Manipur	16-03-2026 01:01	06:55:00	0	3
23	GD I	Tuirial area of Mizoram	16-03-2026 01:33	04:00:00	0	0
24	GD I	Tuirial area of Mizoram	16-03-2026 16:46	00:24:00	0	0
25	GD I	Tipaimukh area of Manipur	16-03-2026 17:39	00:37:00	0	2.5
26	GD I	Sanis and Wokha areas of Nagaland	16-03-2026 18:16	00:45:00	0	3.8
27	GD I	Kohima, Meluri, Zhadima, Chiephbozou areas & Likhimro HEP of Nagaland	16-03-2026 22:15	03:16:00	4	11

28	GD I	Gauripur area of Assam	16-03-2026 23:14	00:52:00	0	29
29	GD I	Kohima, Meluri, Zhadima, Chiephbozou areas & Likhimro HEP of Nagaland	17-03-2026 03:42	03:24:00	0	15
30	GD I	Tuirial area of Mizoram	16-03-2026 04:08	01:39:00	0	0
31	GD I	Kolasib, Bairabi and Turial HEP area of Mizoram	17-03-2026 04:19	01:09:00	0	11
32	GD I	Sanis and Wokha areas of Nagaland	17-03-2026 16:04	00:34:00	0	6
33	GD I	Kohima, Meluri, Zhadima, Chiephbozou areas of Nagaland and Karong, Gamphajol areas of Manipur	17-03-2026 16:13	02:22:00	0	33
34	GD I	Dharmanagar areas of Tripura	17-03-2026 03:26	01:28:00	0	8
35	GD I	Zuangtui, Serchhip, Saitual and Vankal areas of Mizoram	20-03-2026 13:35	01:09:00	0	20
36	GD I	Sanis and Wokha areas of Nagaland	21-03-2026 19:49	00:17:00	0	5

37	GD I	Gamphajol area of Manipur	22-03-2026 00:48	15:08:00	0	2
38	GD I	Sanis and Wokha areas of Nagaland	22-03-2026 11:22	01:28:00	0	2
39	GD I	Samaguri, Sankardevnagar, Diphu, Khaloigaon areas of Assam	23-03-2026 06:29	00:21:00	0	80
40	GD I	Kohima, Meluri, Zhadima, Chiephbozou areas of Nagaland and Gamphajol, Karong areas of Manipur	25-03-2026 15:09	00:35:00	0	45
41	GD I	Kohima, Meluri, Zhadima, Chiephbozou areas of Nagaland Power System & Karong, Gamphajol areas Manipur	28-03-2026 07:40	09:50:00	0	62
42	GD I	Rengpang area of Manipur	28-03-2026 11:19	03:37:00	0	2
43	GD I	Zuangtui, Serchhip, Saitual and Vankal areas of Mizoram	30-03-2026 16:50	00:55:00	0	50

Annexure-II:

The details of the grid disturbances are as follows:

Sl. No.	Transmission Element name	Relay Indication End A	Relay Indication End B	Analysis based on DR/EL	Discussion
Event 1: At 09:37 Hrs of 13-03-2025					
1	132 kV Jiribam-Tipaimukh Line	DP, ZI, R-Y, FD: 48.55 Kms, A/R Unsuccessful due to persistent fault	No tripping, CB not opened due to low gas pressure	Metallic R-Y fault (Ir -2.04 kA, Iy -1.89 kA) in 132 kV Jiribam-Tipaimukh line cleared from Jiribam on ZI. Protection system at Tipaimukh end for 132 kV Jiribam-Tipaimukh line failed to isolate the fault in the line resulting in clearing of fault by tripping of healthy 132 kV Aizawl Tipaimukh line on ZIII from remote end within 854 msec.	Remedial actions taken by MSPCL informed through mail dated 25th March'25
2	132 kV Aizawl-Tipaimukh Line	DP, ZIII, R-Y, FD:125.3 Kms	No tripping		
Event 2: At 12:35 Hrs of 15-03-2025					
1	132 kV Jiribam-Tipaimukh Line	DP, ZI, R-Y, AR successful	No tripping, CB did not open due to low gas pressure	Metallic R-Y fault (Ir -1.85 kA, Iy -1.81 kA) in 132 kV Jiribam-Tipaimukh line cleared from Jiribam on ZI. Due to non-isolation of fault from Tipaimukh end, fault was feeding continuously from Aizawl of 132 kV Aizawl-Tipaimukh and cleared the fault on DP, ZIII within 852 msec. However, AR at Jiribam was successful after 2.6 sec as the fault was transient in nature.	Remedial actions taken by MSPCL informed through mail dated 28th March'25
2	132 kV Aizawl-Tipaimukh Line	DP, ZIII, R-Y	No tripping		
Event 3: At 12:02 Hrs of 13-07-2025					
1	132 kV Jiribam-Tipaimukh Line	DP, ZI, B-N, 13.52 Km	No tripping	High resistive B-N fault (Ib-1.7 kA, In-1.7 kA) initiated at 12:02:14.224 Hrs which was cleared within 77 msec from Jiribam end	Discussed in 82nd PCCM on 21st Aug'25
2	132 kV Aizawl-Tipaimukh Line	DP, ZIII, B-N, 146.2 Km	No tripping		

				on operation of DP, ZI. Due to non-isolation of fault from Tipaimukh end of 132 kV Jiribam line, Aizawl end cleared the fault on operation of ZIII within 950 msec.	
Event 4: At 11:08 Hrs of 21-08-2025					
1	132 kV Jiribam-Tipaimukh Line	DP, ZI, B-N	No tripping (radial as 132 kV Aizawl-Tipaimukh line was under planned shutdown)	High resistive B-N fault (Ib-1 kA, In-0.97 kA) initiated at 11:08:22.205 Hrs which was cleared within 143 msec from Jiribam end on operation of DP, ZI. AR operated successfully after 2.6 sec, however tripped during reclaim time.	No protection Issue
Event 5: At 21:02 Hrs of 10-10-2025					
1	132 kV Jiribam-Tipaimukh Line	DP, ZII, B-N, FD: 57.71 Km, AR unsuccessful due to persistent fault	No tripping, CB did not open	High resistive B-N fault of slowly growing fault current cleared by the main protection in ZII from Jiribam end in 414 msec. AR at Jiribam unsuccessful due to persisting fault. Due to non-isolation of fault from Tipaimukh end of 132 kV Jiribam line, Aizawl end cleared the fault on operation of ZII within 1047 msec.	Discussed in 85th PCCM on 6th November 2025 & 86th PCC on 11th December 2025
2	132 kV Aizawl-Tipaimukh Line	DP, ZII, B-N, FD: 106 Km	No tripping		
Event 6: At 11:08 Hrs of 02-03-2026					
1	132 kV Jiribam-Tipaimukh Line	DP, ZI, B-N, 71.38 Km	No tripping	High resistive B-N fault cleared by the main protection in ZI from Jiribam end in 45 msec. Due to non-isolation of fault from Tipaimukh end of 132 kV Jiribam line, Aizawl end cleared the fault on operation of ZII within 932 msec.	-
2	132 kV Aizawl-Tipaimukh Line	DP, ZIII, B-N, FD: 119.5 Km	No tripping		
Event 7: At 00:45 Hrs of 15-03-2026					

1	132 kV Jiribam Tipaimukh Line	DP, ZI, B-N, 31.33 km	No tripping	B-N fault (Ib-1.9 kA, In-1.8 kA) in 132 kV Jiribam-Tipaimukh line initiated at 00:45:30.495 hrs which was cleared within 61 msec from Jiribam end on operation of DP, ZI. CB at Tipaimukh end failed to clear the fault resulting in clearing of fault by tripping of healthy 132 kV Aizawl-Tipaimukh line from Aizawl end on operation of DP, ZII within 403 msec.	-
2	132 kV Aizawl Tipaimukh Line	DP, ZII, B-N, 113 km	No tripping		
Event 8: At 17:39 Hrs of 16-03-2026					
1	132 kV Aizawl Tipaimukh Line	DP, ZII, R-N, 96.5 km	No tripping (radial as 132 kV Jiribam-Tipaimukh line was under tripped condition since 13:54 Hrs of 15-03-2026)	R-N fault (Ir-0.888 kA, In-0.875 kA) initiated at 17:39:11.846 hrs which was cleared within 409 msec from Aizawl end on operation of DP, ZII. No tripping from Kolasib end (radial)	No protection issue