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Agenda for

89th PCCM

Govt. of India

Ministry of Power

North Eastern Regional Power Committee

Shillong

North Eastern Regional Power Committee

Agenda for

89th Protection Coordination Sub-Committee Meeting

Date: 21/04/2026 (Tuesday)

Time: 11:00 hrs.

Venue: NERPC Conference Hall, Shillong

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

No comments were received from the constituents

Sub-committee may confirm 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	All users	Annual audit plan to be	Annual

	audit plan		submitted to RPC by ***31st October***	

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, Khuppi, Tenga and Lekhi done. (Total Substation: 09)	Report for Daporijo shared. Report for Khuppi 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	NA

				law and Order situation. Audit of Yurembam ss, Ningthounkong ss and Imphal (PG) were done by NERPC in Aug'25	
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, Melriat (PG), Zuangtui and Luangmual were done by 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 March'26. (Utility absent)		Feb, 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 N.Lakhimpur substation holistically. NBTL -done, reports shared	
12	NEEPCO (Total Substation: 10)	Completed.	Audit report of Khandong and Turial submitted. For rest, will be submitted shortly	Audit of Kameng done by PRDC on Dec'25. Turial 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	Budgetary offer	

.			shared	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 form protection point of view.	
19	Dikshi HEP (IPP)	Audit done in Nov'25.	Report shared report submitted to the state.	Feb'26	

Utilities to further update

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

In the last few years, the concern has risen that the NER power utilities are lacking interest in using these softwares 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 show realise the criticality of the softwares and show keen interest in using them and strengthen theory protection systems.

Forum may discuss

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.

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%

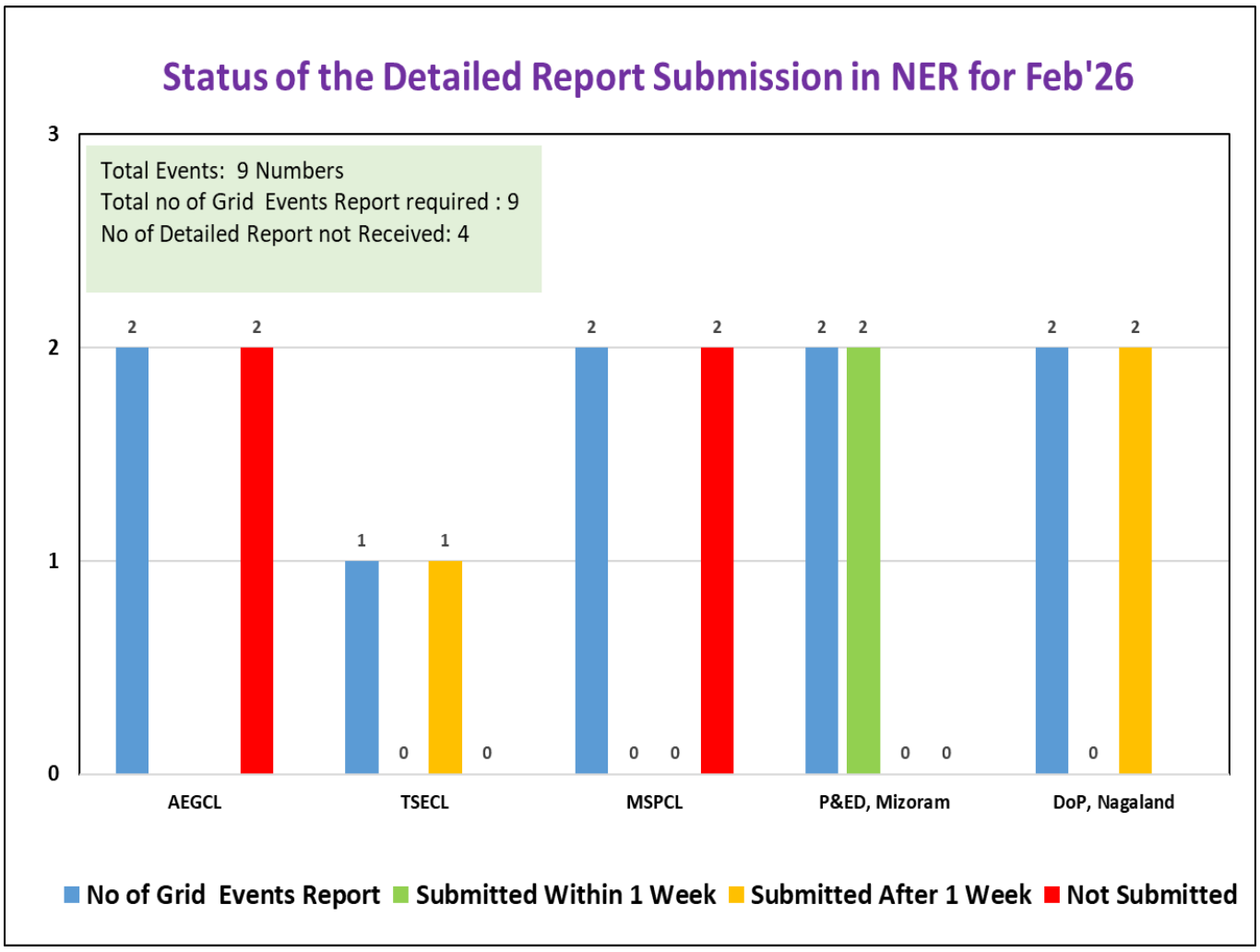
Concerned Utilities are requested to upload Disturbance Recorder (DR), Event Logger (EL) outputs for grid events along with a First Information Report (FIR) in Tripping Monitoring Portal (https://tripping.nerldc.in/Default.aspx) for analysis purpose. In light of the cybersecurity measures implemented 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)

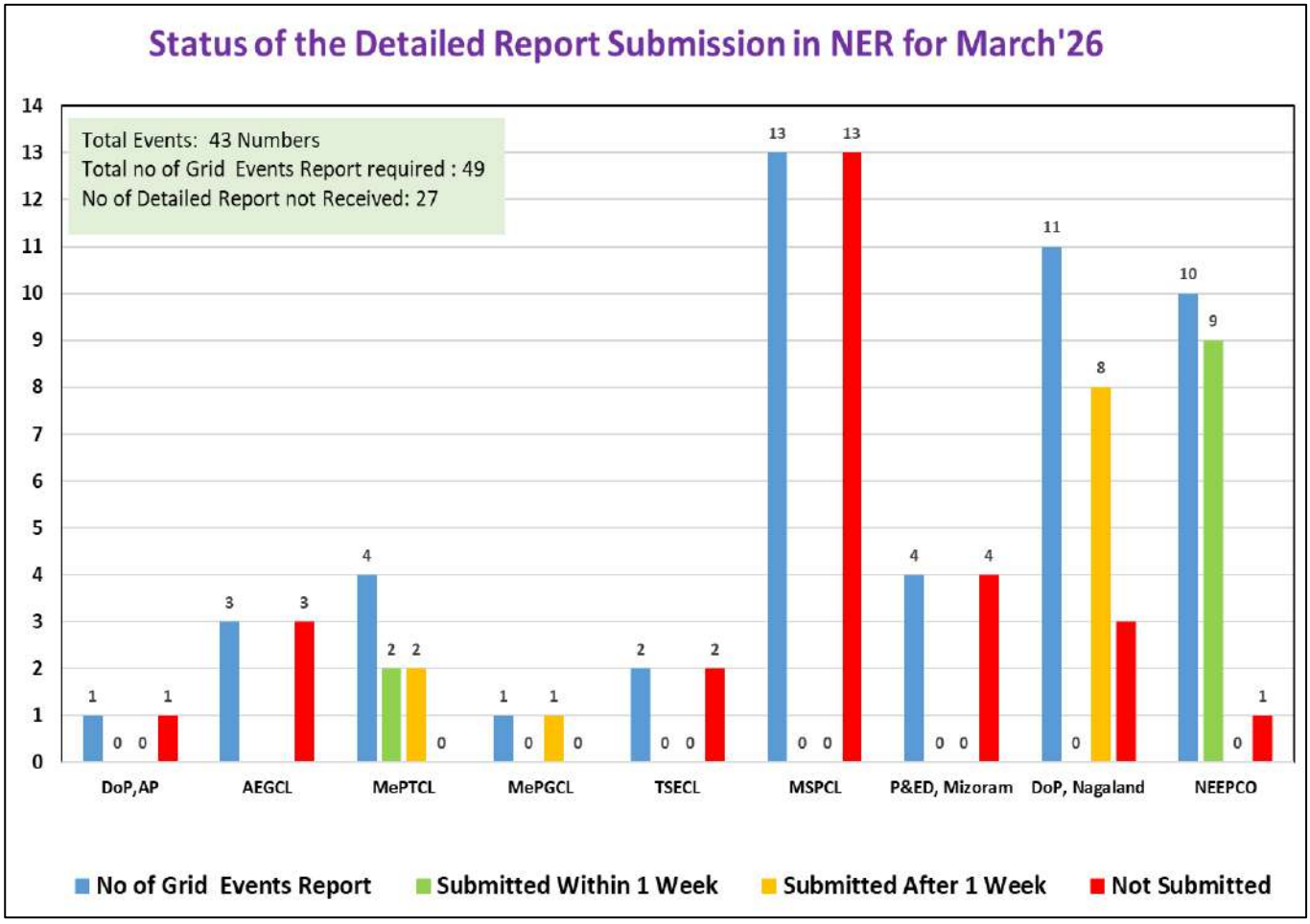
Members may discuss.

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.

Members may discuss.

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

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 operation 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 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	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=**		**S=**		**R=**		**Remarks**
		(Nc/Nc+Nf)		**(Nc/Nc+Nu)**		**(Nc/Nc+Ni)**		
		Feb'26	Mar'26	Feb'26	Mar'26	Feb'26	Mar'26	
1	NTPC(Bgtpp)	-	Not	-	Not	-	Not	No tripping

			submitted		submitted		submitted	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.

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

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

Sl. No.	Name of SPS	Actual Operation in FY 2025-26	Date of mock testing
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
9	**SPS/TR/006:** Outage/tripping of 400 kV Palatana – Surajmani	Operated successfully on	Not applicable

Sl. No.	Name of SPS	Actual Operation in FY 2025-26	Date of mock testing
	Nagar line (charged at 132 kV)	29th May'25 & 11th June'25	
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:** SPS related to tripping of 220 kV Misa - Samaguri DC Line	-	Performed on 23rd Mar'26. The unwanted tripping of 2x160 MVA ICT 1 &

Sl. No.	Name of SPS	Actual Operation in FY 2025-26	Date of mock testing
			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:** SPS related to Outage/tripping of any one circuit of 132 kV Dimapur(PG)- Dimapur(NA) D/C	Operated successfully on 24th July'25- (3 times)	Not applicable

Sl. No.	Name of SPS	Actual Operation in FY 2025-26	Date of mock testing
	Line		
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.

Member may discuss

B.8 Decommissioning of the SPS at SM Nagar (TPTL):

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.

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-	19:28	20:13	DT received	LBB operated

	Karimganj Line				
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.

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

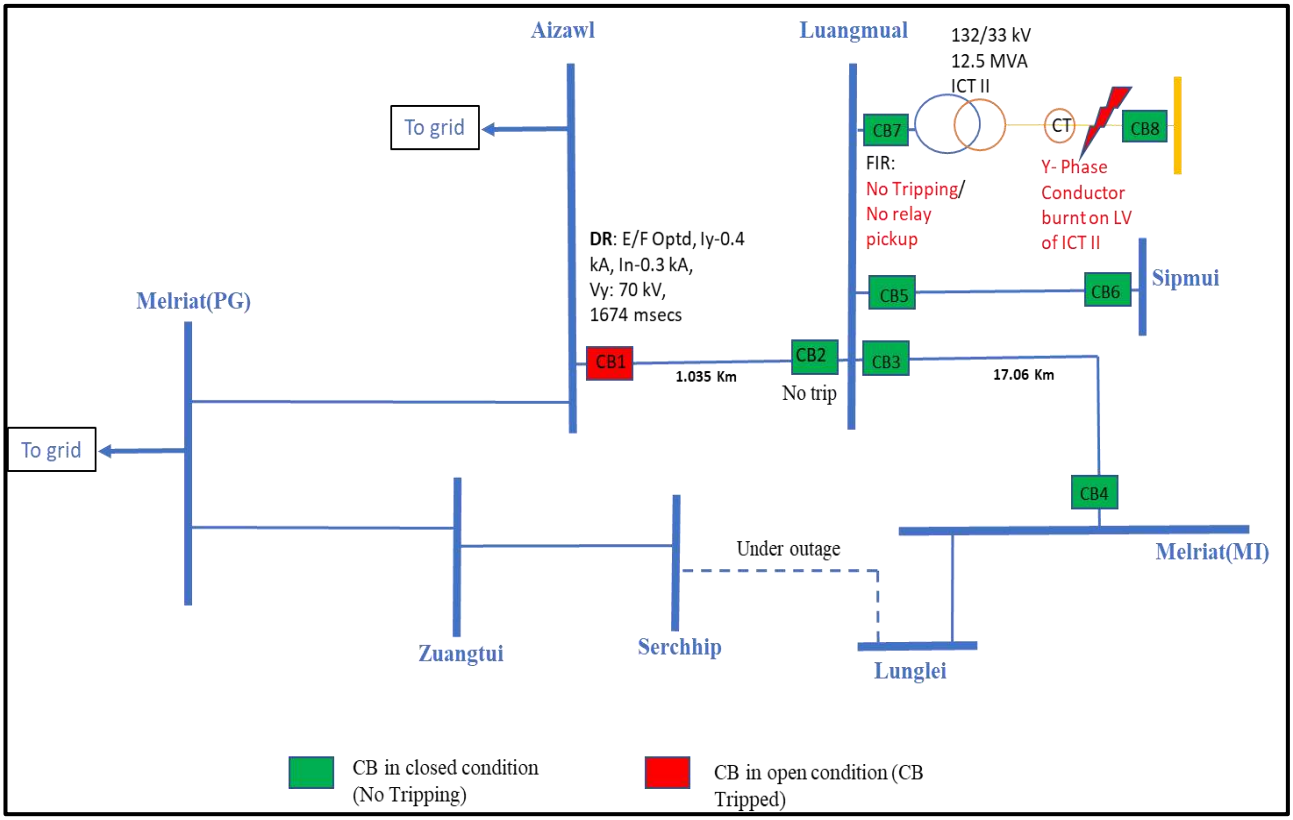
At 21:21 hrs of 16-02-2026, 132 kV Haflong(PG)-Haflong(AS) line tripped only from Haflong(AS) end due to intertrip command received in LDR relay.

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).

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).

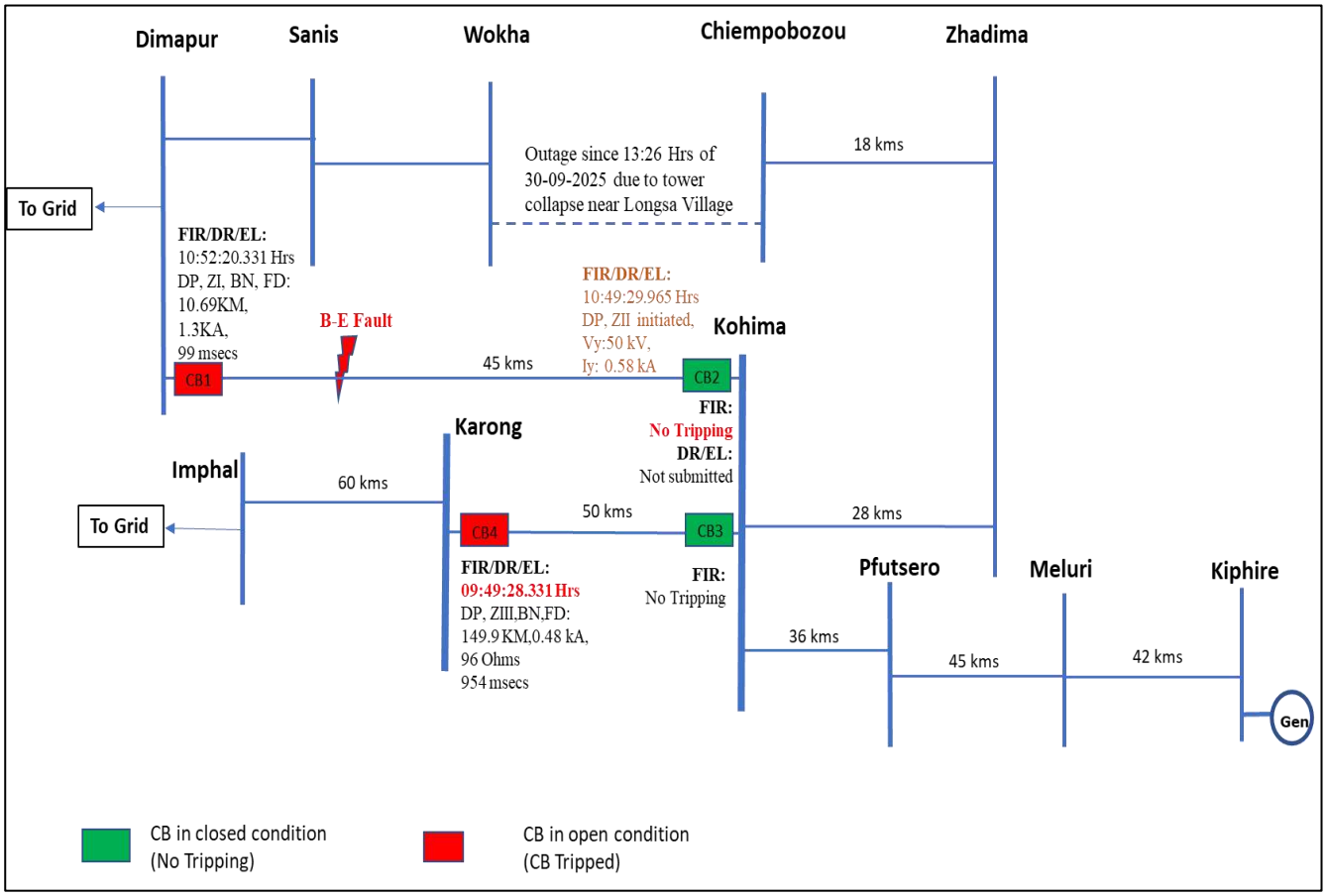
P&ED Mizoram to update the reason of non-operation of HV side protection of 132/33 kV ICT at Luangmual.

B.12 <u>Grid Disturbance at Kohima & radially connected areas Pfutsero, Meluri, Zhadima, Chiephbozou areas & LHEP generating station of Nagaland:</u>

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-Chiephebozou line under outage due to tower collapse near Longsa village.

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

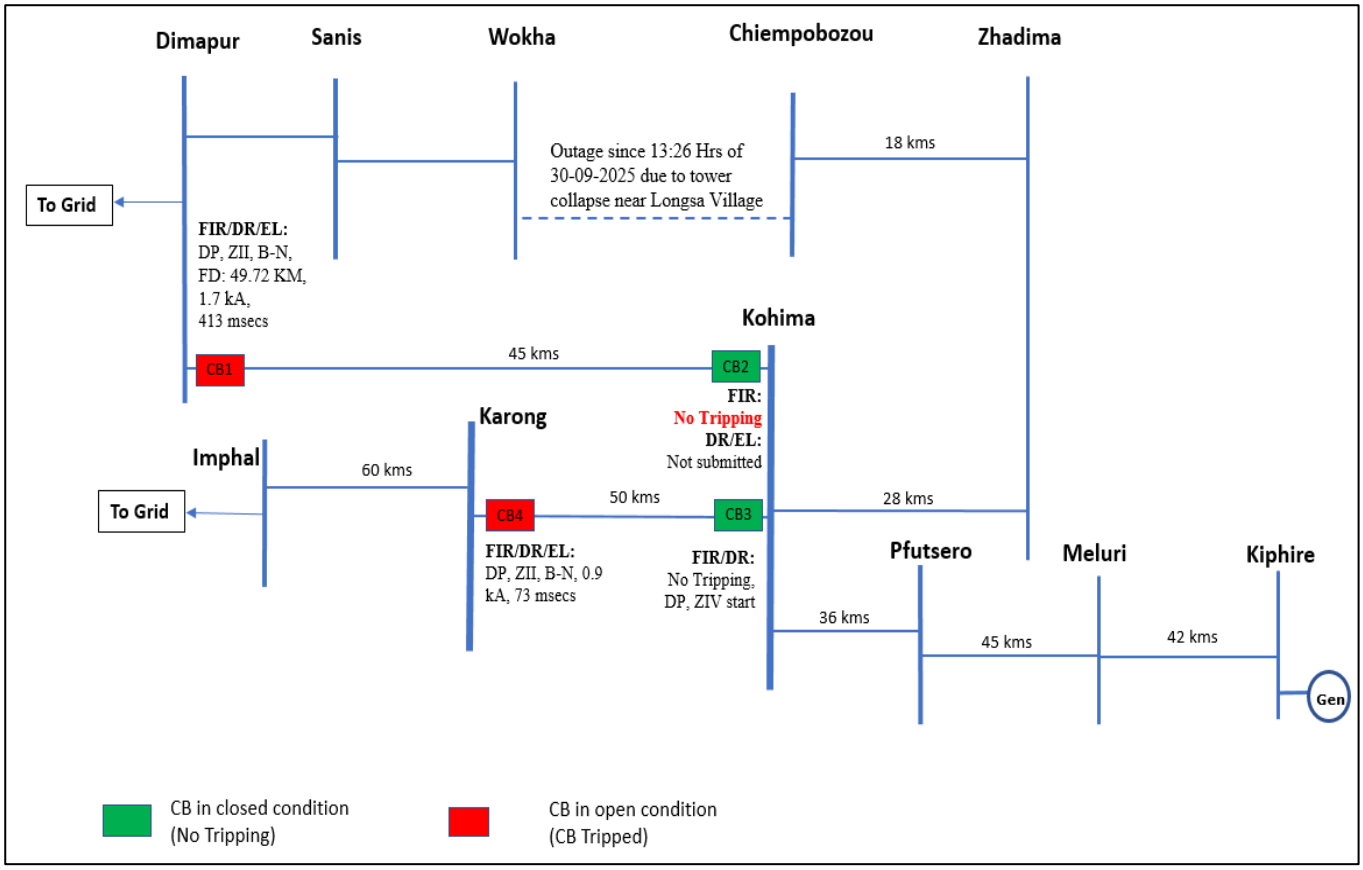
At 10.52 Hrs of 20.02.2026, 132 kV Dimapur (PG) - Kohima line and 132 kV Karong - Kohima line tripped.



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.

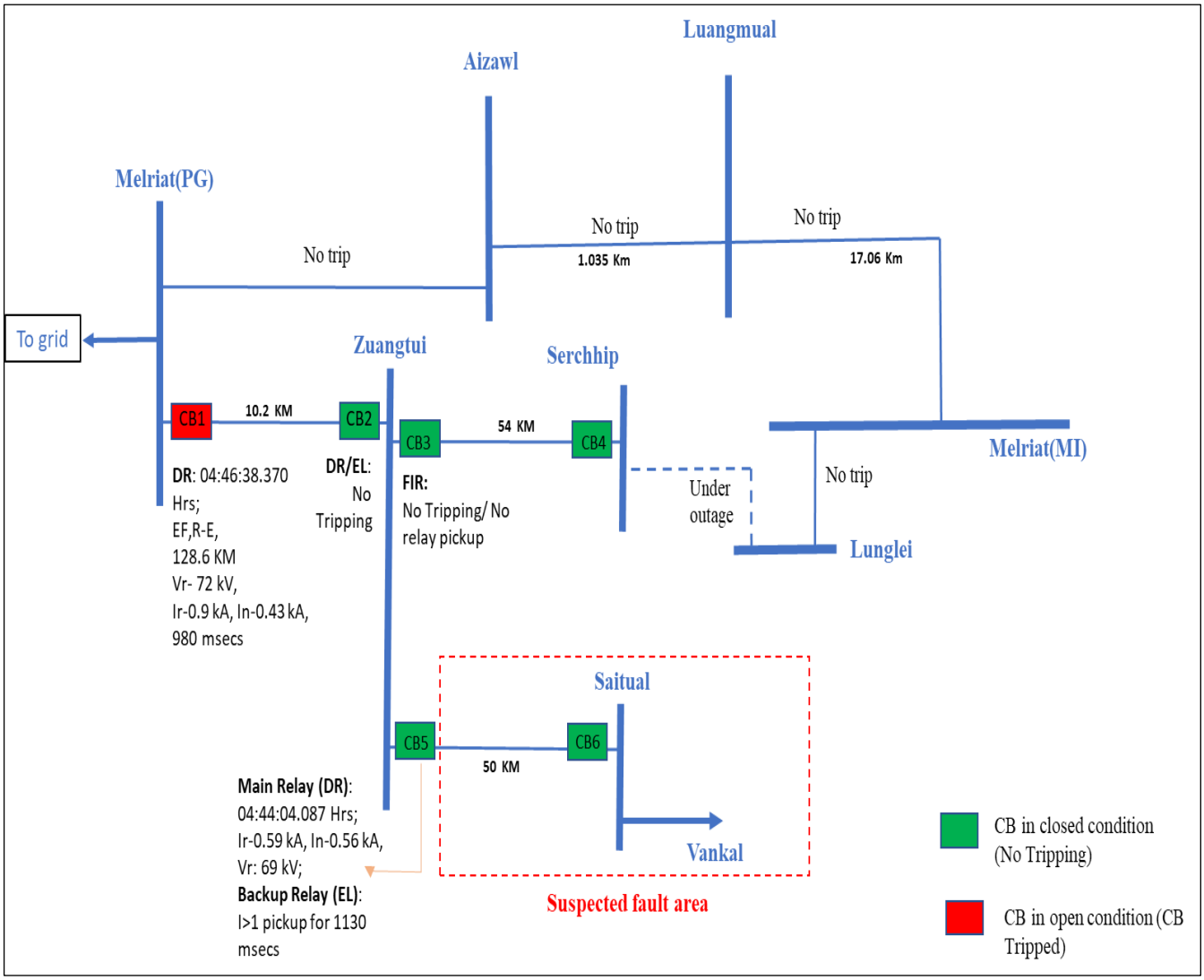
- 132 kV Chiephobozou-Wokha line is under long outage since 30.09.2025 due to tower collapse near Longsa village. Restoration of the line needs to be expedited by DoP Nagaland.
- Time drift of 63 minutes observed in the DR of Karong end of 132 kV Karong - Kohima line which needs to be rectified.

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.



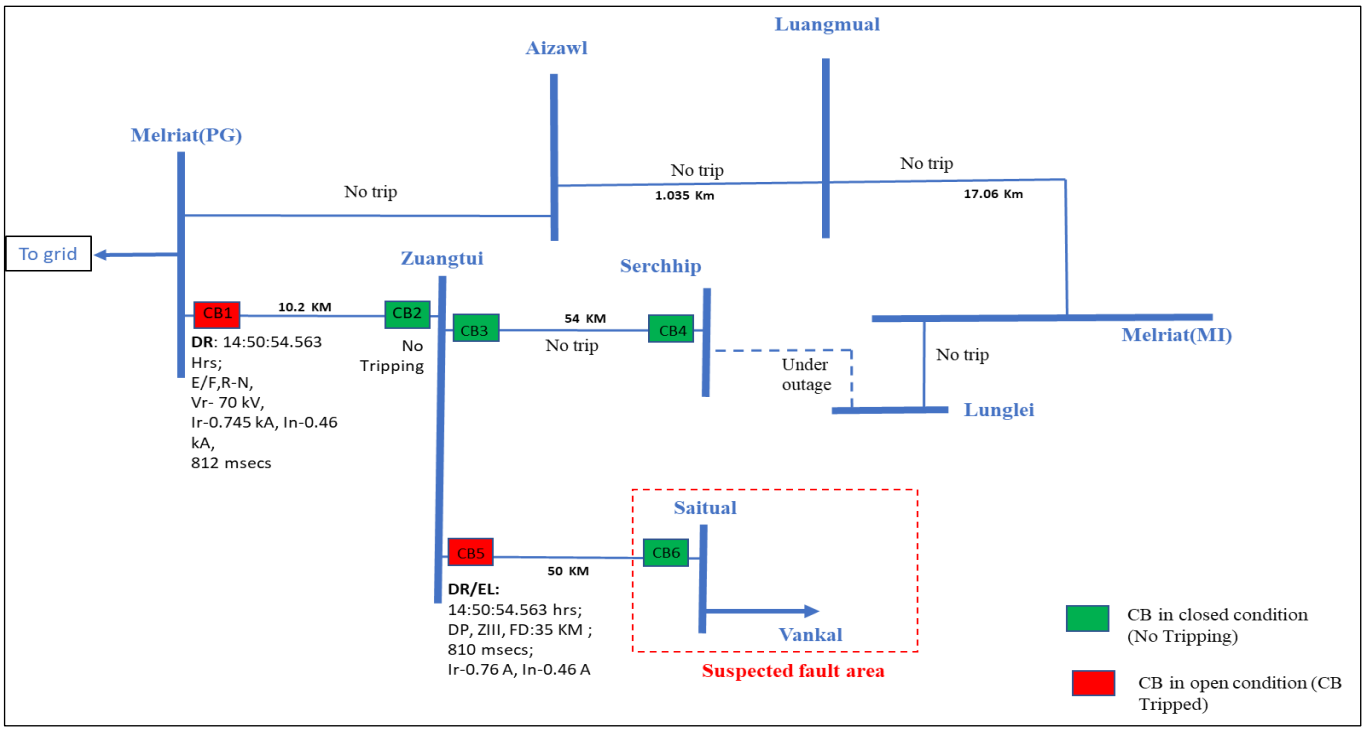
As per the DR analysis, a high-resistance fault was detected by the backup protection at 04:46:38.370 hrs and was cleared within 980 ms through the operation of backup earth fault protection at the Melriat (PG) end. No tripping was observed from the Zuangtui end.

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.

B.14 <u>Repeated Grid Disturbance in Tipaimukh area of Manipur Power System:</u>

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.

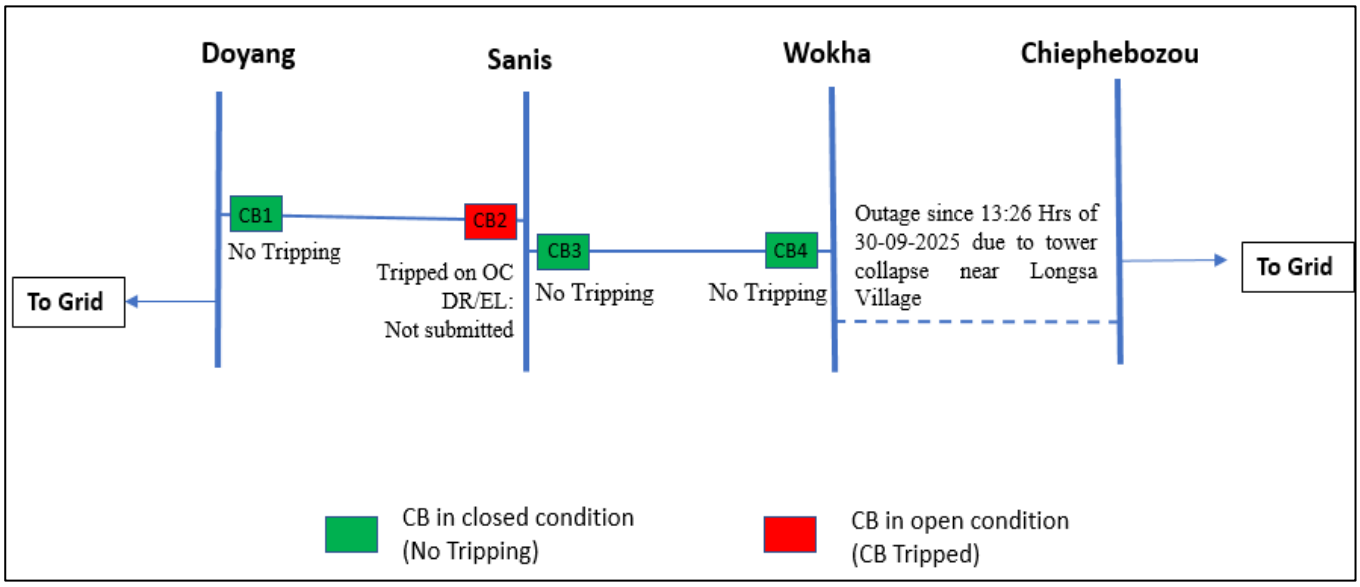
MSPCL to update on the above-mentioned issues.

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,

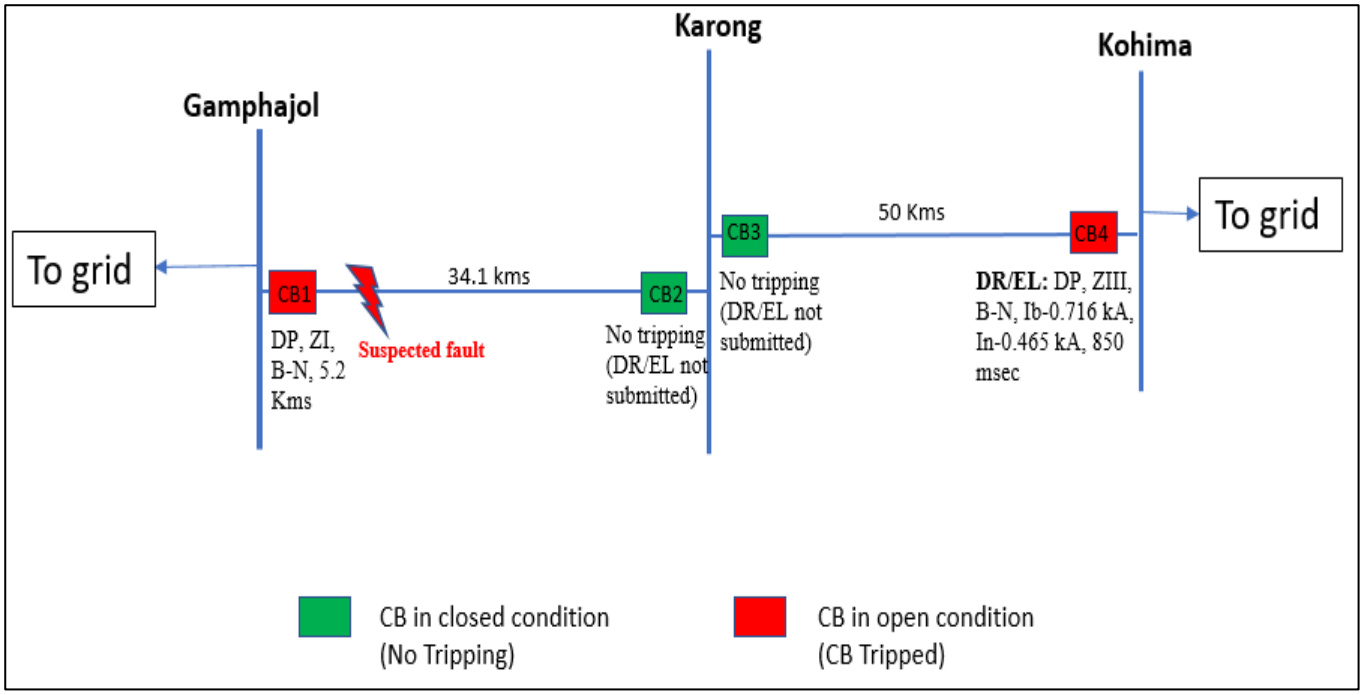
- DoP Nagaland informed that a new line CVT will be installed shortly.
- Forum advised DoP Nagaland to undertake comprehensive testing of the backup protection relay in coordination with Powergrid (Dimapur) to ensure proper functionality and protection coordination.
- DoP Nagaland to enable the backup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

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

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

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 Gamphajol-Karong lines.

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



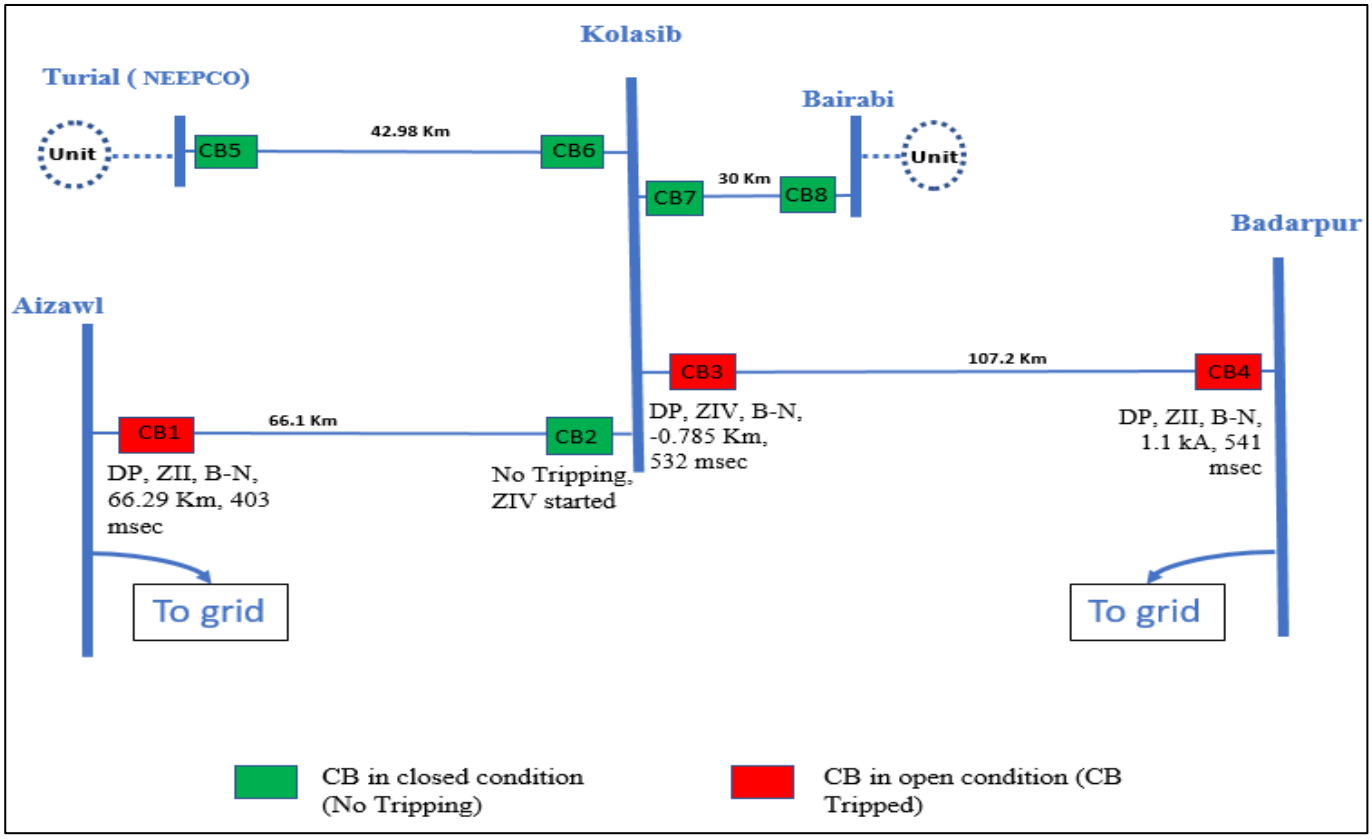
As per the DR analysis at the Kohima end of the 132 kV Karong line, a B–N fault (Ib = 0.716 kA, In = 0.465 kA) was initiated at 20:50:46.964 hrs and cleared within 850 msecs through the operation of distance protection (DP), Zone-III at the Kohima end. No tripping was observed from the Karong end, indicating 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 Gamphajol–Karong line at a distance of approximately 5.2 km from the Gamphajol end and was cleared by Zone-I protection at the Gamphajol 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 Gamphajol line**.**

B.17 Grid Disturbance in Kolasib, Bairabi and Turial 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.

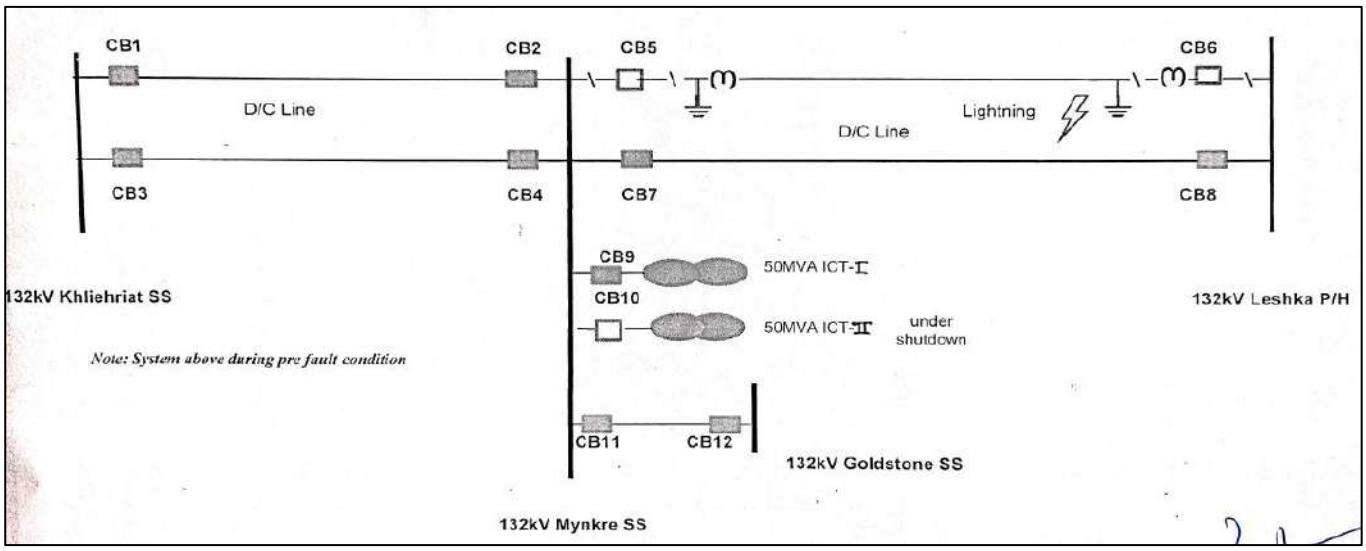
B.18 Grid Disturbance in Leshka HEP, Goldstone & Mynkre area of Meghalaya on 15th March'2026:

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.

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

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.

Agenda from Powergrid

B.20 <u>Non tripping of Tipaimukh end CB for 132kV Jiribam-Tipaimukh feeder</u>

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 has 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.

B.21 Non-working of Auto Reclose function for 132kV Melriat-Zemabwk feeder at Zemabwk 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. Zemabwk end bay as well as CRP is owned by DoP Mizroram.

The issue of non-working of AR function at Zemabwk 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.

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 has 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.

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.

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.

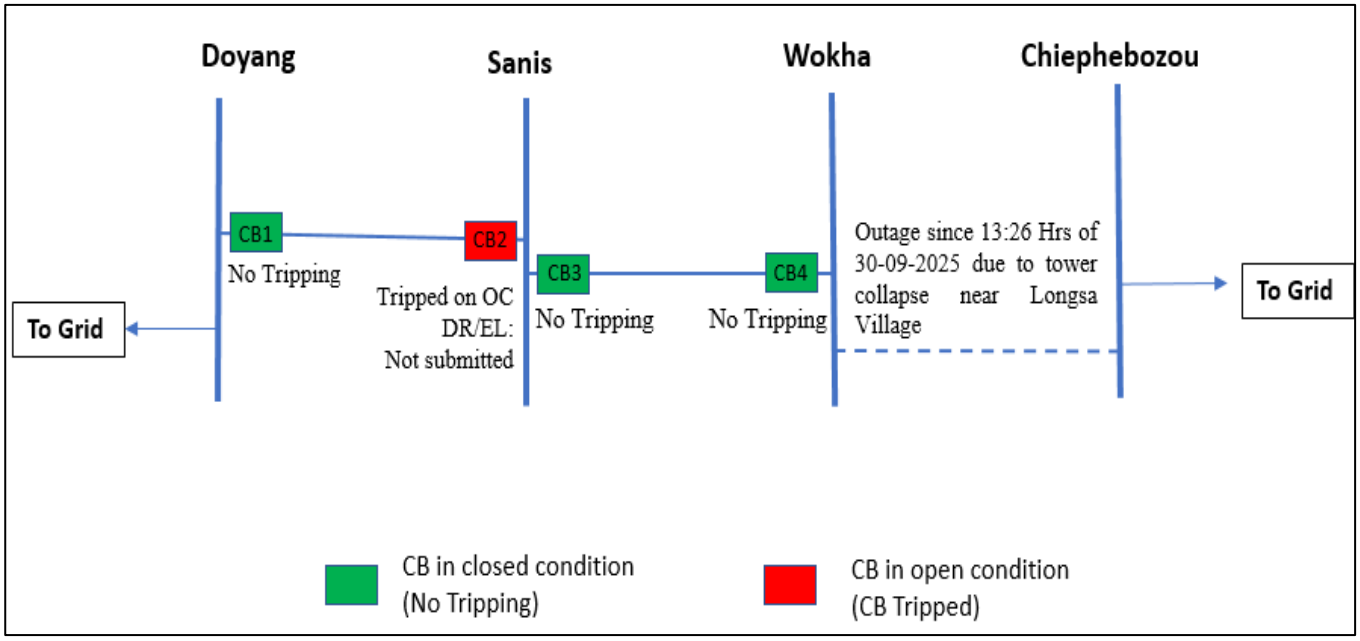
All the utilities are requested to update the status of Mapping of SPS in the SCADA Display.

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.

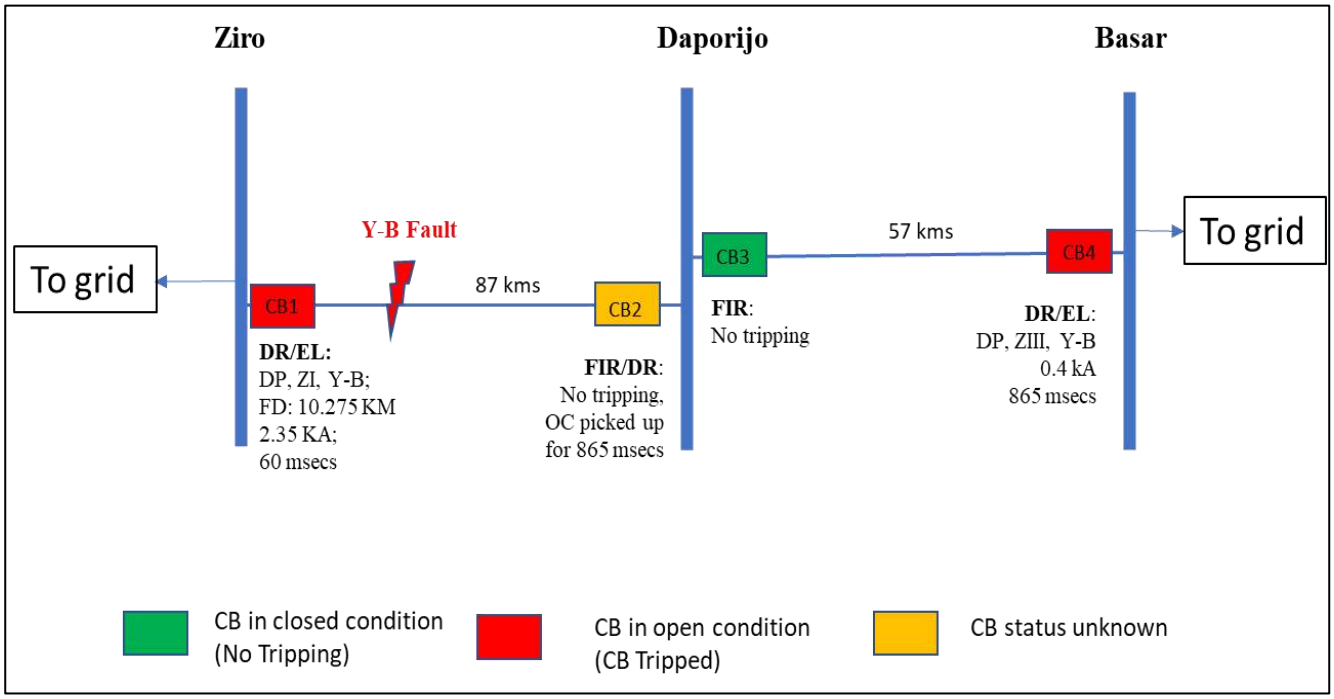
DoP Nagaland may update

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 -

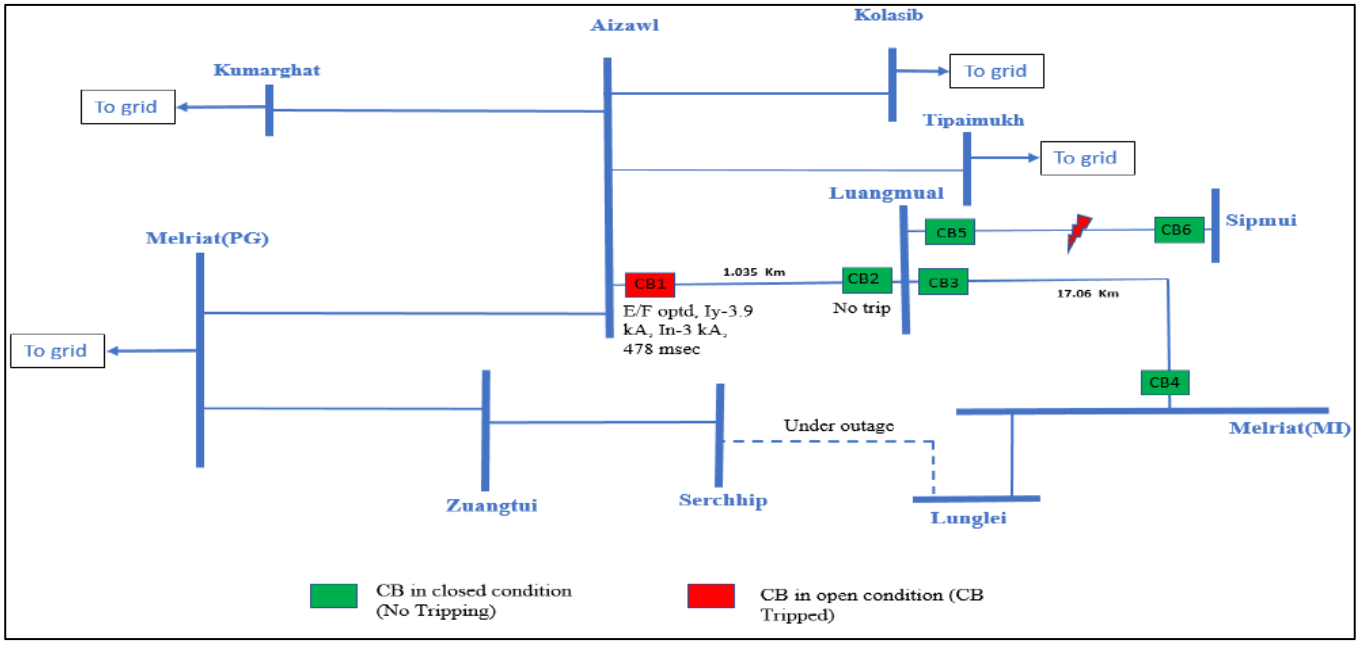
there are issues with the CBs as they are of Pneumatic type and old, need to replaced spring charging type CB.

DoP Ar. Pradesh may updated on the replacement work

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.

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.

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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