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Azadi Ka
Amrit Mahotsav

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

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No.: No. NERPC/SE (O)/PCC/2025/1023-1064

June 03, 2025

To

As per list attached

Sub: 79वीं संरक्षण समन्वय उप-समिति (पीसीसी) बैठक का कार्यवृत्त/ Minutes of 79th Protection Coordination Sub-Committee (PCC) Meeting

महोदय/महोदया,

कृपया 19 मई 2025 को शिलांग के एनईआरपीसी कॉन्फ्रेंस हॉल में आयोजित 79वीं पीसीसी बैठक के कार्यवृत्त को अपनी जानकारी और आवश्यक कार्रवाई के लिए संलग्न 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 79th PCC Meeting held at NERPC conference Hall, Shillong on 19th May 2025 for your kind information and necessary action. The minutes is also available on the website of NERPC: www.nerpc.gov.in.

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

भवदीय / Yours faithfully,

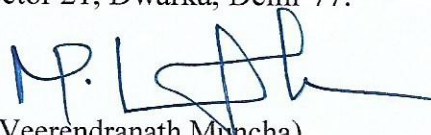
(वीरेंद्रनाथ मुंछा/ Veerendranath Muncha)

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, Dongtiah-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, Dongtiah, 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.


(वीरेंद्रनाथ मुंचा/ Veerendranath Muncha)
निदेशक / Director



सत्यमेव जयते

**Minutes
of
79th PCCM**

Govt. of India
Ministry of Power
North Eastern Regional Power Committee
Shillong

North Eastern Regional Power Committee

Minutes of

79th Protection Coordination Sub-Committee Meeting

Date: 19/05/2025 (Monday)

Time: 11:00 hrs.

Venue: NERPC conference Hall, Shillong

The list of participants is attached as **annexure I**

A. CONFIRMATION OF MINUTES

1. CONFIRMATION OF MINUTES OF THE 78th PROTECTION SUB-COMMITTEE MEETING OF NERPC.

Minutes of the 78th PCC Meeting held on 21st April, 2025 at NERPC Conference Hall, Shillong was circulated vide letter No.: NERPC/SE (O)/PCC/2025/536-577 dated 5th May 2025.

No comments were received from the constituents

Sub-committee confirmed the minutes of the 78th 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
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Background: In 60th PCCM the following points were discussed-

Member Secretary NERPC informed that third party protection audit has to be generally conducted by the utilities on their own. However, the 3rd party audit will be carried out by team constituted by NERPC at selected substations based on the criticality, analysis and requirement. In this regard, NERPC has already circulated an audit calendar and audit formats for reference of the constituents.

The nodal officers of respective State/Power Utilities have to fill the audit formats and submit to the NERPC secretariat within 1 week. The forum decided that compliance to audit reports will be followed up regularly in PCC meeting of NERPC.

Information regarding substations that have already been audited will be provided by States to NERPC & NERLDC. *Forum agreed that all users (132 kV and above) have to conduct Internal Audit annually and submit audit report to RPC with action plan for rectification of deficiencies within 30 days of Audit.*

Regarding audit plan of utilities, the forum requested the utilities to furnish the list of substations and audit (internal as well as third party) schedule for FY 2024-25. A google spreadsheet has been circulated to the constituents by NERLDC to provide the schedule of protection audit as well as date of last audit. The forum requested the constituents to update the spreadsheet.

Status of Internal/External Audit (78th PCCM):

Sr No	Utility/ Constituents	Internal Audit		External audit	
		Latest Status	report	Latest Status	report
1.	Ar. Pradesh	Lekhi SS next month (Total Substation: 09)	Report of Chimpu shared	representative of A.P. MS NERPC stated that that audit of	NA

				Pashighat, Along and Roing substations may be conducted in the last week of April'25. Powergrid requested NERPC to conduct the nearby substations of Powergrid also.	
2.	Assam	For FY 2025-2026, audits to start from May'25. (Total Substation: 75)	Submitted for FY 2024-25	Forum advised to start identifying external agencies to carry out the third-party audit for next phase of audit (2023-2027). Forum suggested to plan the audits in phase-wise manner.	Submitted for phase 2017-2022. External audit of only Karimganj S/s is left
3.	Manipur	Done for all SS for FY 2024-25. Forum requested to plan for FY 2025-26. (Total Substation: 08)	Submitted	8 SS to be done, Schedule to be decided, subject to law and Order situation. Audit of Yurembam ss and Ningthoungkong ss may be done by NERPC team in May'25	NA
4.	Meghalaya	Internal audit of 132kV Substations completed except for two substations namely., IIM &	Reports shared	Audit of 6 SS (Killing, EPIP I, EPIP II, NEHU, Mawlai an Mawphlang) done. For other substations, seek offer from CBIP, yet to receive offer. 3rd	Report shared

		Mustem also done. (Total Substation: 22)		party audit of Lumshnong may be done by NERPC in May'25.	
5.	Mizoram	Done for all SS (Total Substation: 10)	Report shared	List of external agencies awaited. Searching for parties to conduct audit. Audit of Kolasib, Aizawl, Melriat (PG), Zuangtui and Luangmual may be done in May'25 by NERPC	NA
6.	Nagaland	Done for all 10 SS	Report shared. Action plan to be shared	Audit of 5 SS to be done in April or May'25 by NERPC. For rest, to be planned later.	NA
7.	Tripura	13 out of 18 done, rest by April'25. For 66kV SS - audit by Mar'25. (Total Substation: 18)	Shared for 13 SS. But, NERPC informed that the report is incomplete as all the formats have not been provided. TSECL to provide complete formats by April'25	Requested NERPC to conduct audit of critical substations namely Agartala, SMnagar, PK Bari, Dharmanagar and Udaipur. MS NERPC stated that the audit may be planned for May'25	NA
8.	Powergrid (NERTS)	All 22 SS done	Shared	External audit done for Misa & Salakati s/s by NERPC.	

				For 2 substations, audit is being planned to be done by government agencies like CBIP and CPRI. Matter is under process.	
9.	NTL	Audit done	To be shared soon	To be done later this year (2025)	
10	KMTL	No representative, forum suggested NERLDC to send a letter to CERC regarding non-compliance			
11	MUML/NBTL	No representative	Internal Audit done		
12	NEEPCO (Total Substation: 10)	All done	Shared for Pare and Turial and AGBPP. Shared for Kameng. RC Nagar report will be shared shortly	AGTCCPP done (by M/s ERDA Gujrat), report to be shared shortly. Kameng being planned, discussion with CPRI underway. Doyang in May 2025	
13	OTPC (Palatana)	Done	Shared	Done	shared
14	NTPC (BgTPP)	Done	shared	Done (by CPRI)	Complete Report shared. Action plan shared.
15	NHPC (Loktak)	By Mar'25	Internal audit will be done by April'25	To be done after R&M of the plant	
16	APGCL	Utilities to update status			

17	TPGCL				
18	MEPGCL	Audit of Umiam stg I and Stg II was done Nov'24, Stg III and stg IV to be done by April'25	Submitted for st I and stg II. Internal audit of Umiam Stg 3 and 4 by April'25.	External audits of all generating stations were done in 2021. For next cycle of audit, planning being done.	
19	Dikshi HEP (IPP)	*	*	*	*

**DoP Ar. Pradesh have intimated Dikshi HEP to provide status to NERPC*

Further deliberations of 78th PCCM

Many constituents expressed the need of imparting knowledge and skill for protection system to their officers. MS, NERPC stated that a protection audit training program can be arranged at NPTI Guwahati for all the utilities and NERPC secretariat will communicate with NPTI on this matter.

Regarding formation of the protection expert group in NER for conducting the external audits, Assam updated that nominations from their side, have been sent to NERPC. MS NERPC requested all the state utilities and CPSUs to send their nominations to NERPC within one week so that the audit expert members list will be ready.

With respect to internal protection audits, MS NERPC requested the utilities to prepare a list of shortcomings observed and corresponding action plans and submit to NERPC and NERLDC along with the protection audit reports. Also, he advised NERLDC to prepare compliance reports, utility wise, and present regularly in the PCC meetings.

Deliberation

Status of Internal/External audit (79th PCCM)

Sr No	Utility/ Constituents	Internal Audit		External audit	
		Latest Status	report	Latest Status	report
1.	Ar. Pradesh	Lekhi SS next month (Total Substation: 09)	Report of Chimpu shared for FY 2024-25. Planning to be done for 205-26	Planning and Tendering will be done for audit of all 9 SS	NA
2.	Assam	For FY 2025-2026, audits to start from July'25. (Total Substation: 75)	Submitted for FY 2024-25. Planning to be done for 205-26	External agency being finalized for carrying out the audit	Submitted for phase 2017-2022. External audit of only Karimganj S/s is left
3.	Manipur	To be planned for FY 2025-26. (Total Substation: 08)	Submitted for FY 2024-25. Planning to be done for 205-26	8 SS to be done, Schedule to be decided, subject to law and Order situation. Audit of Yurembam ss and Ningthouklong ss may be done by NERPC team in May/June'25	NA
4.	Meghalaya	Internal audit of 132kV Substations completed for FY 2024-25. For FY 2025-26, audits will start from July'25	Reports shared for FY 2024-25. Planning to be done for 205-26	Audit of 6 SS (Killing, EPIP I, EPIP II, NEHU, Mawlai and Mawphlang) done. For other substations, Offer received from PRDC (Cost Rs. 67 Lakh for	Report shared

		(Total Substation: 22)		13 S/S). Offer awaited from CPRI (estimated cost Rs. 35 Lakh for 13 S/S). External party will be finalized considering the financial aspect. 3rd party audit of Lumshnong may be done by NERPC in May/June'25.	
5.	Mizoram	For FY 2025-26, audits to start from June'25. Tentative plan shared with NERPC and NERLDC. (Total Substation: 10)	Report shared for FY 2024-25. Planning to be done for 205-26	List of external agencies awaited. Searching for parties to conduct audit. Audit of Kolasib, Aizawl, Melriat (PG), Zuangtui and Luangmual may be done in June'25 by NERPC.	NA
6.	Nagaland	For FY 2025-26, will update the plan shortly	Report shared for FY 2024-25. Action plan to be shared. Planning to be done for 205-26	Audit of 5 SS to be done in June'25 by NERPC. For rest, to be planned later.	NA
7.	Tripura	No representative (Total Substation: 18)	Shared for 13 SS for FY 2024-25. But, NERPC informed that the report is incomplete as all the formats	No representative	NA

			have not been provided. TSECL to provide complete formats by April'25. Planning to be done for 205-26		
8.	Powergrid (NERTS)	Internal audit plan for FY 2025-26 has been shared.	Shared for FY 2024-25. Planning to be done for 205-26	External audit done for Misa & Salakati s/s by NERPC. For 2 substations, audit is being planned to be done by government agencies like CBIP and CPRI. Matter is under process. 3 rd party audit plan for all S/S will be shared shortly.	
9.	NTL	No representative	To be shared soon	No representative	
10	KMTL	completed the internal audit for 400/220 KV GIS Substation, New Kohima in July 2024. Internal audit for FY 2025-26 will be conducted		Requested forum to suggest the External audit panel members.	

		tentatively during July'25.			
11	MUML/NBTL	Internal audit plan for 2025-26 has been shared	Internal Audit done for FY 2024-25. Planning to be done for 205-26	Forum advised to Plan for March'26	
12	NEEPCO (Total Substation: 10)	Internal audit plan for FY 2025-26 has been shared	All shared for FY 2024-25. Planning to be done for 205-26	AGTCCPP done (by M/s ERDA Gujrat), report shared RC nagar done.ameng being planned, discussion with CPRI underway. Doyang in May 2025. Waiting for price offer.	
13	OTPC (Palatana)	For FY 2025-26, to be planned	Shared for FY 2024-25. Planning to be done for 205-26	Done	shared
14	NTPC (BgTPP)	For FY 2025-26, to be planned	Shared for FY 2024-25. Planning to be done for 205-26	Done (by CPRI)	Complete Report shared. Action plan shared.
15	NHPC (Loktak)	Protection team informed, to be done at the earliest for FY 2025-26	Internal audit to be done before June 2025	To be done after R&M of the plant. Order Placed.	
16	APGCL	Utilities to update status			
17	TPGCL				

18	MEPGCL	Audit of Stg III and stg IV to be done by Nov'25. Internal audit plan for all S/S for FY 2025-26 to be shared	Submitted for st I and stg II for FY 2024-25. Planning to be done for 205-26	External audits of all generating stations were done in 2021. Audit of Umiam Stg-I & Stg-IV planned during Nov'25. For other S/S, planning being done.	
19	Dikshi HEP (IPP)	*	*	*	*

Further deliberations

MS NERPC instructed that –

- the external audit reports of the utilities to be studied by PSAG sub-group and list of recommended actions to be finalised and presented in PCC meetings so that the regular update may be taken on work progress.
- He also instructed that inspections of UFRs (used in AUFLS scheme or islanding scheme) shall be carried out along with protection audit.
- Compliance of audit reports to be regularly monitored in the PCC meeting and to be put up as an agenda item.

B.2 Analysis and Discussion on Grid Disturbances which occurred in NER grid in April'25 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 April 2025 based on the draft report prepared by NERLDC.

NERLDC Agenda

Deliberation

NERLDC stated that a total of 19 GDs occurred in April'25 which have been placed in further agenda items for discussion.

B.3 Status of submission of FIR, DR & EL outputs for the Grid Events for the month of April'2025:

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 in Tripping Monitoring Portal for events from 01-04- 2025 to 30-04-2025 as on **09-05-2025** is given below:

Owner Name	Total No of FIR/DR/EL/TR to be submitted(SEND+REND)	FIR			DR			EL		
		Total Furnished in 24hrs %	Total Furnished after 24hrs %	Total furnished %	Total Furnished in 24hrs %	Total Furnished after 24hrs %	Total furnished %	Total Furnished in 24hrs %	Total Furnished after 24hrs %	Total furnished %
AEGCL	58	2	31	33	2	98	100	10	90	100
APGCL (Cumulative) *No Unit Tripping	6	0	0	0	0	0	0	0	0	0
DoP, AP (Cumulative) *No Unit Tripping	29	38	52	90	41	48	90	38	52	90
DoP, Nagaland (Cumulative) *No Unit Tripping	8	50	38	88	0	88	88	63	25	88
KMTL	2	100	0	100	0	0	0	100	0	100
MePGCL (Cumulative) *No Unit Tripping	8	0	100	100	13	88	100	13	38	50
MePTCL	23	96	4	100	96	4	100	57	43	100
MSPCL	14	14	21	36	21	14	36	29	7	36
NBTL	10	60	0	60	40	20	60	50	10	60
NEEPCO (Cumulative)	40	53	43	95	55	38	93	55	40	95
NHPC (Cumulative) *No Unit Tripping	2	50	0	50	50	0	50	50	0	50
NTL	2	50	50	100	50	50	100	0	100	100
P&ED, Mizoram (Cumulative) *No Unit Tripping	5	0	100	100	0	100	100	0	100	100
POWERGRID	94	65	35	100	71	28	99	68	31	99
TSECL	34	0	12	12	29	71	100	24	76	100

**FIR/DR/EL submission status of utilities having tripping of Generating Units
as on 09-05-2025:**

Owner Name	Total No of FIR/DR/EL/TR to be submitted(SEND+REND)	FIR			DR			EL		
		Total Furnished in 24hrs %	Total Furnished after 24hrs %	Total furnished %	Total Furnished in 24hrs %	Total Furnished after 24hrs %	Total furnished %	Total Furnished in 24hrs %	Total Furnished after 24hrs %	Total furnished %
NEEPCO *Unit Tripping	18	-	-	94	-	-	93	-	-	93
TPGCL (Cumulative) *1 case of Unit Tripping only	1	0	0	0	0	0	0	0	0	0
NTPC *2 cases unit Tripping only	2	0	0	0	0	100	100	0	100	100

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.nerlhc.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 nerlhcso3@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 nerlhcprotection@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.nerlhc.in/Default.aspx>)

All the utilities are requested to submit details of tripping of downstream feeder on monthly basis to NERLDC.

Members may discuss.

Deliberation

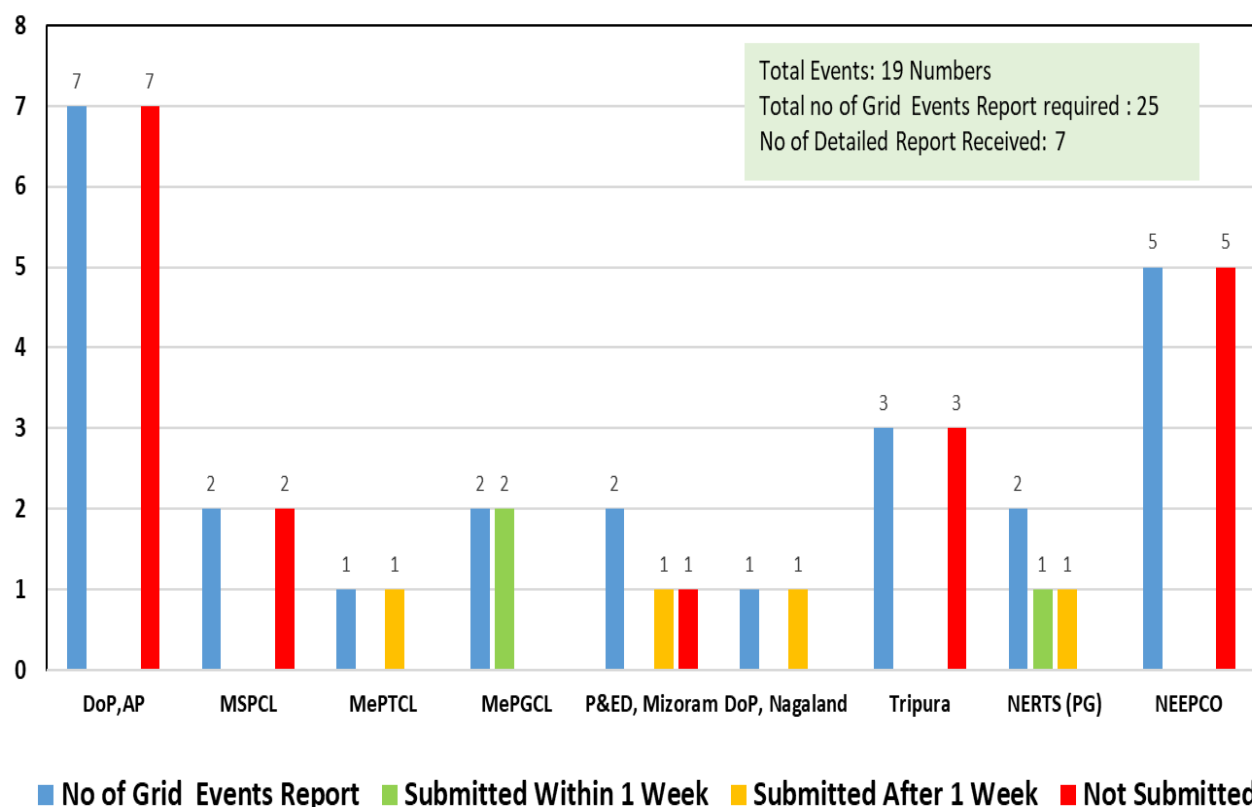
Forum urged all utilities to submit FIR/DR/EL in tripping portal within 24 hrs of tripping as per IEGC-23.

NERLDC highlighted that during April'25, many tripping and grid disturbances occurred due to protection failure of downstream feeders which is a cause of concern. In view of this, a google sheet will be prepared by NERLDC shortly. All utilities are required to submit tripping details of downstream system on monthly basis.

B.4 Submission of Flash Report and 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 same for the month of **April, 2025** as on **09-05-2025** is shown below:

Status of the Detailed Report Submission in NER for April'25



DoP AP, MSPCL, P&ED Mizoram, TSECL and NEEPCO have not submitted the detailed report of grid disturbance. Also, we have received 3 reports within one week of time.

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

- Arunachal Pradesh: Due to busy schedule of AP personnel, detailed report could not be sent on time. To be shared shortly.
- MSPCL: NERLDC highlighted that detailed report was not submitted in proper format. 1 GD report of Rengpang not submitted. To be shared shortly.
- P&ED Mizoram: Report to be re-shared with NERLDC with proper details of grid disturbances.
- TSECL: Absent. Follow up to be done through mail.

- NEEPCO: Submitted for Grid event at Monarchak & Kameng. Not submitted for grid event at Tuirial HEP. To be shared shortly.

Forum appreciated MePTCL, MePGCL, DoP Nagaland & POWERGRID for submission of detailed report.

B.5 Non-operation of auto recloser in Important Grid Elements for transient faults in April 2025:

Sl. No	Element Name	Tripping Date and Time	RELAY_A	RELAY_B	Auto-Recloser not Operated	Remarks from Utility
1	132 kV Jiribam - Tipaimukh Line	05-04-2025 20:05:00	DP, ZI, R-E, FD: 48.14 Kms, AR Operated Sucessfully	DP, R-E, 16.7 KM, Ir-0.81 KA	Tipaimukh (MSPCL)	MSPCL informed that issue was SF6 leakage in CB, now resolved. NERLDC informed that failure of AR recurred on 18 th May'25. MSPCL to look into it again.
2	132 kV Lekhi - Nirjuli Line	05-04-2025 20:56	DP, ZI, Y-E, FD: 0.489 km	DP, ZI, Y-E, FD: 5.9 Kms, AR Operated Unsucessfully	Lekhi (AP)	AR was in lockout condition. Will check SF6 level.
3	132 kV Loktak - Rengpang Line	05-04-2025 21:12:00	DP, ZI, B-E, FD: 15.44 Kms	Loss of Voltage	Loktak(NHPC)	NHPC to check and update

4	132 kV Pare - Itanagar Line	05-04-2025 22:30:00	DP, ZI, R-E	DP, ZII, R-E, FD: 29.9 KM	Both Ends	Carrier aided AR logic needs to be checked and end-to-end testing to be done. By May'25
5	132 kV Khandong - Khliehriat Line	06-04-2025 16:35:00	M1:B-N ,Z-1, 4.129 KA, 2.057 KM, AR Operated Sucessfully	M1:B-N ,Z-1, 4.129 KA, 2.057 KM	Khliehriat (POWERGRID)	Spurious DT received at Khliehriat (PG) end due to which AR not operated. Root cause is under investigation.
6	220 kV Sarusajai-Sonapur Line	10-04-2025 12:44	DP, ZI, R-E, FD: 6.9 Kms; AR Not Operated	DP, ZI, Y-E, FD: 36.9Kms; AR Operated Sucessfully	Sarusajai (AEGCL)	No update from AEGCL. AEGCL to confirm the non-operation of AR.
7	220 kV Mariani (AEGCL) - Samaguri Line	13-04-2025 10:04	DP, ZI, Y-E, FD: 146.7 Kms; AR Operated Sucessfully	DP, ZI, Y-E, FD:2.4 kms; AR Not Operated	Samaguri (AEGCL)	DI card faulty, replacement by May'25

8	132 kV Aizawl - Kumarghat Line	14-04-2025 17:34	DP, ZI, R-B, FD: 76.53Kms; AR Operated Sucessfully	DP, ZI, R-Y, FD: 58.18 Kms; AR Not Operated	Kumarghat at (POWERGRID)	PLCC issue. Rectified now.
9	220 kV Kopili - Misa 2 Line	16-04-2025 11:25	DP, ZI, R-E, FD: 1.050 kms; AR Not Operated	DP, ZII, R-E, FD: 86.81 Kms; Carrier received; AR Operated Sucessfully	Kopili (NEEPCO)	Spurious DT received at Kopili which was suspected due to wiring issue. The matter is under investigation
10	400 kV Misa - Silchar 2 Line	16-04-2025 11:55	DP, ZI, R-E, FD: 78Kms; AR Not Operated	DP, ZI, Y-E, FD: 157.682Kms; AR Operated Sucessfully	Misa (POWERGRID)	D60 relay configuration issue (Single phase fault seen as Three phase fault due to which AR not operated). To be rectified shortly.

11	132 kV Dimapur (PG) - Kohima Line	17-04- 2025 13:35	DP, ZI, B- E, FD: 37.04Kms, AR Operated Unsucessf ully	DP, ZI, B-E; AR Not Operated	Kohima (DoP, Nagaland)	DoP Nagaland claimed that AR operated while NERLDC informed that DR suggest that AR did not operate. DoP Nagaland to check again and update
12	132 kV AGTCCPP - Kumarghat Line	21-04- 2025 05:51	DP, ZI, B- E, FD: 22.69kms; AR Not Operated	DP, ZI, B-E, FD: 77.191kms; AR Operated Sucessfully	AGTCCPP (NEEPCO)	NEEPCO stated that the issue could not be identified and resolved through online support from OEM. He requested Power grid to extend support in this regard

13	132 kV Dimapur (PG) - Kohima Line	23-04- 2025 16:04	DP, ZI, B- E, FD: 49.123 Kms; AR Operated Unsucessf ully	DP, ZI, B-E; AR Not Operated.	Kohima (DoP, Nagaland)	Same as in point no. 11 above
14	132 kV Dimapur (PG) - Kohima Line	27-04- 2025 04:00	DP, ZI, B- E, FD: 18.662 Kms; AR Not Operated.	DP, ZI, B-E; AR Not Operated.	Dimapur (POWERG RID) & Kohima (DoP, Nagaland)	Same as in point no. 11 above
15	132 kV Badarpur - Silchar 1 Line	28-04- 2025 10:48	DP, ZI, Y-E, FD: 2.76 Kms; AR Not Operated.	DP, ZI, Y-E, FD: 15.53 Kms; AR Operated Sucessfully	Badarpur (POWERG RID)	Relay synch check configuratio n issue. Rectified now.
16	132 kV Gohpur- Itanagar Line	28-04- 2025 10:15	DP, ZII, B- N, 40.3 Km, AR not operated	DP, ZI, B-N, 0.89 Km, AR successful	Gohpur (AEGCL)	Carrier healthy signal wire loose. Applied for Shutdown to rectify the issue.

Sub-committee noted as above

B.6 Submission of Protection Performance Indices by Transmission Utilities:

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.

As on 13.05.2025, **NETC, NTPC, OTPC, DoP Nagaland, NEEPCO (Kopili & TGBPS), POWERGRID, MUML, NBTL, AEGCL, NTL & MePTCL** has submitted protection performance indices for the month of April'25.

Sl. No.	Name of Transmission Licencee	D= (Nc/Nc+Nf)	S= (Nc/Nc+Nu)	R= (Nc/Nc+Ni)	Remarks
1	NETC	-	-	-	No bay owned by NETC
2	MUML	-	-	-	No tripping during April'25
3	NTPC	1	1	1	
4	OTPC	1	1	1	
5	DoP Nagaland	1	1	1	
6	NEEPCO (TGBPS & Kopili)	1	1	1	
7	POWERGRID	1	1	1	
8	NBTL	0	0	0	At 20:44 Hrs of 26-04-2025, 220 kV Nangalbibra Bus-I tripped due to fault in 220 kV Bongaigaon-Nangalbibra I Line. Also, 31.5 MVAR B/R-I&II & 160 MVA ICT-I&II tripped which is unwanted.
9	AEGCL	1	0.862	0.862	Unwanted tripping of 220 kV NTPS-Tinsukia Line, ICT-I at Tinsukia on

					25.04.2025: Due to faulty cable. Rectified. - Unwanted tripping of 220 kV NTPS-Tinsukia Line on 20th, 21st, 23rd & 24th April'25: Spurious DT received at NTPS (No trip at Tinsukia). Issue Rectified. - Unwanted tripping of 220 kV Jawaharnagar-Samaguri Line on 14th & 18th April'25: Spurious DT received at Jawaharnagar end. Samaguri end will be checking.
10	NTL	1	0.8	0.8	Tripping of 132 kV Gohpur-Itanagar Line on 28th April, 25
11	MePTCL	0.93	0.875	0.823	Tripping of 132 kV Umiam Stg-I-Umiam Line on 01st April, 25: Tripped at Umiam Stg-I end due to

					operation of highset O/C protection which is unwanted. Forum advised to replace with distance protection relay within first week of June 25 Unwanted tripping of 132 kV Lumshnong-Panchgram Line at 08:10 Hrs & 20:21 Hrs of 24th April, 25.
12	DoP Arunachal Pradesh	-	-	-	Not Submitted
13	MSPCL	-	-	-	to be submitted within a week.
14	P&ED Mizoram	-	-	-	to be submitted within a week.
15	TSECL	-	-	-	Not Submitted
16	KMTL	-	-	-	Not Submitted

Sl. No.	Name of Generating Company	D= (Nc/Nc+Nf)	S= (Nc/Nc+Nu)	R= (Nc/Nc+Ni)	Remarks
1	APGCL	-	-	-	Not Submitted
2	MePGCL	-	-	-	Not Submitted

3	TPGCL	-	-	-	Not Submitted
4	NHPC	-	-	-	Not Submitted
5	NEEPCO(AGBPP, AGTCCPP, Kameng, Doyang, Panyor & Pare)	-	-	-	Not Submitted

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.

Sub-committee may deliberate

Deliberation

NERLDC highlighted that Protection Performance Indices received from NETC, NTPC, OTPC, DoP Nagaland, NEEPCO (Kopili, TGBPS, Pare), POWERGRID, MUMIL, NBTL, AEGCL, NTL, MePTCL, MePGCL, KMTL, TSECL and DoP Arunachal Pradesh.

Not received from transmission utilities such as MSPCL and P&ED Mizoram. Also, not received from Generating companies such as APGCL, TPGCL, NHPC and NEEPCO (AGBPP, AGTCCPP, Kameng, Doyang & Panyor)

Forum urged all the utilities for timely submission of protection performance indices.

B.7 Time Drift issue of submitted Disturbance recorder during April 2025:

As per Regulation No. 17(1) of IEGC 2023- All users shall keep the recording instruments (disturbance recorder and event logger) in proper working condition.

As per Regulation No. 17(3) of IEGC 2023, the time synchronization of the disturbance recorders shall be corroborated with the PMU data or SCADA event loggers by the respective RLDC. Disturbance recorders which are non- compliant shall be listed out for discussion at RPC.

List of elements with time drift issue in the submitted DRs for April 2025 are as follows:

SL No	Element Name	Tripping Date and Time	End 1 Owner	End 2 Owner	Time Drift observed at Substation & duration	Remarks
1	132 kV Umiam - Umiam St I Line	01-04-2025 01:55	MePTCL	MePGCL	Umiam : 1 Hr time lead (02:55 Hrs)	GPS not present. Corrected manually.
2	132kV Khleiriat(ME) - Lumshong Line	01-04-2025 03:45	MePTCL	MePTCL	Khleiriat(ME) : 3 min time lag (03:41:58 Hrs)	GPS not present. Corrected manually
3	132 kV Pare - Itanagar Line	05-04-2025 22:30	NEEPCO	DoP, Ar. Pradesh	Pare: 8 min time lead (22:30 Hrs)	GPS present. Time synced with GPS (rectified)
4	132 kV Khandong - Khliehriat 2 Line	06-04-2025 16:35	POWER GRID	POWER GRID	Khandong: 9 min time lag (16:26 Hrs) in Main II DR (Main I is time synchronized)	Manually corrected by NERTS. As per GPS owner is NEEPCO, to be synced by NEEPCO in coordination with NERTS
5	132 kV Kamalpur - P K Bari Line	07-04-2025 02:22	TSECL	TSECL	Kamalpur : 63 min time lag (01:19 Hrs)	TSECL Absent

6	132 kV Badarpur - Kolasib Line	07-04- 2025 03:34	POWER GRID	POWER GRID	Kolasib : 5 min time lag (03:39 Hrs)	GPS not present. Manually corrected. GPS will be procured by June'25
7	220 kV Balipara - Sonabil 1 Line	09-04- 2025 06:50	POWER GRID	AEGCL	Sonabil: 5 min time lag (06:45 Hrs)	GPS malfunctioning. Forum urged AEGCL to ensure healthiness of GPS in all substations.
8	132 kV Dharmanagar - P K Bari Line	10-04- 2025 08:30	TSECL	TSECL	Dharmanagar: 17 min time lag (08:13 Hrs) P K Bari: 3 min time lag (08:27 Hrs)	TSECL Absent
9	132 kV Sarusajai - Umtru 2 Line	10-04- 2025 12:43	AEGCL	MePGCL	Umtru: 29 min time lag (12:14 Hrs)	GPS not present. Corrected manually.
10	132 kV Dharmanagar - Dullavcherra Line	10-04- 2025 13:22	TSECL	AEGCL	Dharmanagar: 2 min time lead (13:22 Hrs)	TSECL Absent

11	132 kV Chapakhowa - Rupai Line	13-04- 2025 13:05	AEGCL	AEGCL	Umiam : 5 min time lag (13:01 Hrs)	To be checked and confirmed by NERLDC
12	132 kV Along - Pasighat Line	16-04- 2025 14:00	DoP, Ar. Pradesh	DoP, Ar. Pradesh	Along : 2 min time lag (13:58 Hrs) Pasighat : 4 min time lag (13:56 Hrs)	GPS not present. Corrected manually
13	132 kV Monarchak - Udaipur Line	17-04- 2025 12:47	NEEPCO	TSECL	Monarchak : 10 min time lag (12:37 Hrs) Udaipur : 2 min time lag (12:45 Hrs)	GPS sync done at Monarchak (rectified) TSECL absent
14	132 kV Monarchak - Rokhia Line	17-04- 2025 12:49	NEEPCO	TSECL	Monarchak : 10 min time lag (12:37 Hrs) Udaipur : 2 min time lag (12:45 Hrs)	GPS sync done at Monarchak (rectified) TSECL absent
15	132 kV Ranganadi - Pare 1 Line	18-04- 2025 11:33	NEEPCO	NEEPCO	Pare : 1 hr time lead (12:33 Hrs) in Main I No time drift in Main II	Time synced with GPS. Rectified.

16	132 kV Panchgram - Lumshnong Line	27-04- 2025 02:58	AEGCL	MePTCL	Panchgram : 3 min time lag (02:55 Hrs)	GPS present. However, it is malfunctioning. Forum urged AEGCL to ensure healthiness of GPS in all substations.
17	132KV- Myntdu Leshka- Mynkre 1 Line	28-04- 2025 07:04	MePGCL	MePTCL	Mynkre : 10 min time lag (06:54 Hrs)	Mynkre: GPS defective at Mynkre. Under repairing stage. Leshka: GPS not present. To be procured. MePGCL informed that GPS at generating S/S has been proposed in PSDF.
18	132KV- Myntdu Leshka- Mynkre 2 Line	28-04- 2025 07:04	MePGCL	MePTCL	Mynkre : 10 min time lag (06:54 Hrs)	Same as point no. 17

19	132 kV Dharmanagar - P K Bari Line	28-04- 2025 09:07	TSECL	TSECL	Dharmanagar : 18 min time lag (08:49 Hrs) P K Bari : 4 min time lag (09:07 Hrs)	TSECL absent
20	400 kV Balipara - Bongaigaon 4 Line	28-04- 2025 09:13	POWER GRID	POWER GRID	Bongaigaon: 5 min time lag (09:08 Hrs)	Relay connectivity issue. Rectified.
21	132 kV Agartala - Rokhia 1 Line	28-04- 2025 10:34	TSECL	TSECL	Agartala: 1 Hr time lag (09:34 Hrs)	TSECL absent
22	132 kV Bodhjannagar - Jirania Line	29-04- 2025 11:57	TSECL	TSECL	Bodhjannagar: 3 min time lag (11:54 Hrs)	TSECL absent

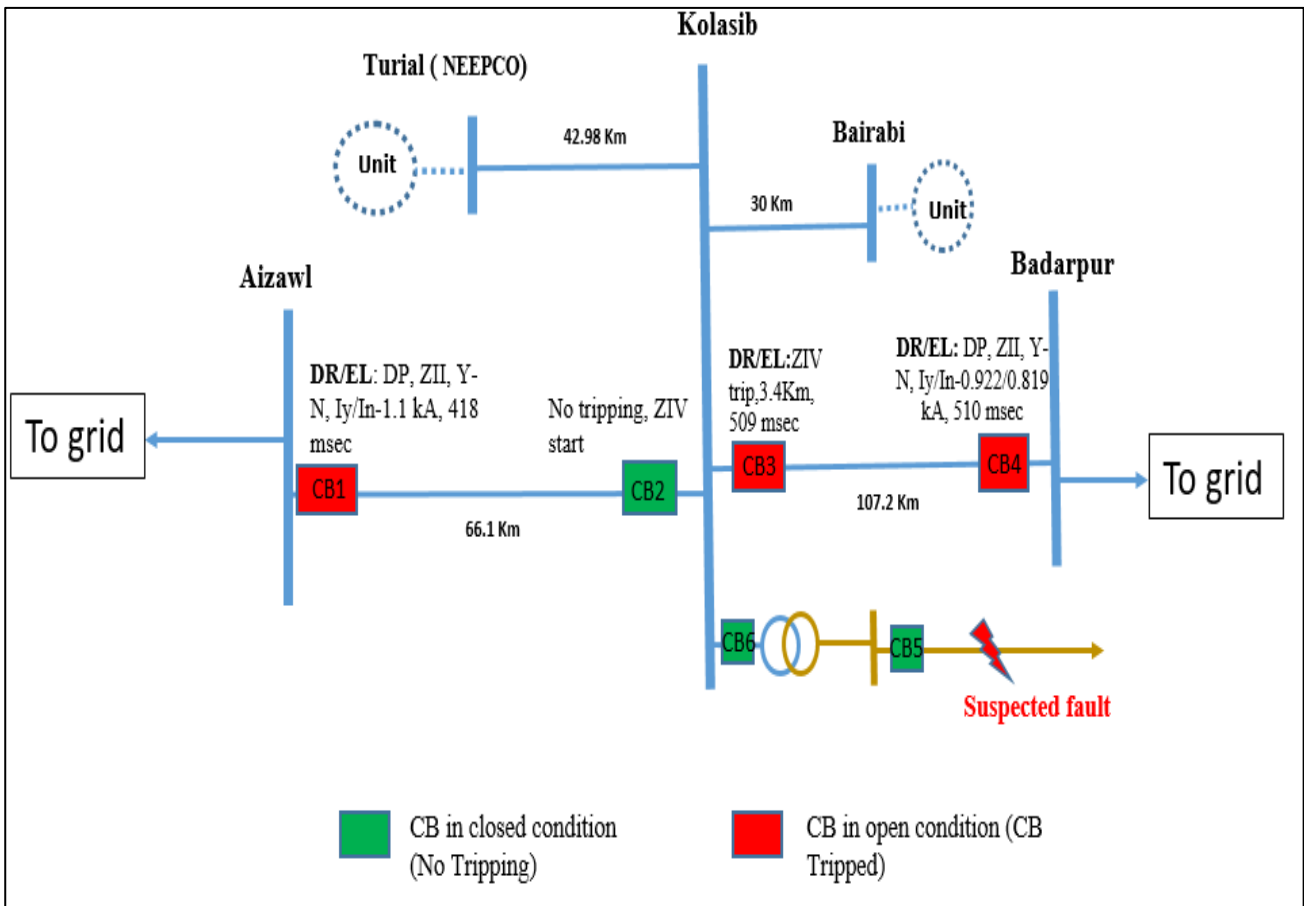
Utilities should ensure that the submitted DR and EL files have corrected time synchronization for proper analysis purposes. Healthiness of GPS may be checked and time to be adjusted as per grid code. All utilities requested to install GPS and make DR standardization.

The agenda will be refereed to next RPC for sensitization of higher authority.

B.8 Grid Disturbance in Tuirial HEP of NEEPCO & Kolasib and Bairabi areas of Mizoram Power System on 07-04-2025:

Kolasib and Bairabi areas of Mizoram & Tuirial HEP of NEEPCO were connected with rest of NER Grid through 132 kV Kolasib-Badarpur and 132 kV Kolasib – Aizawl lines.

At 03:34 Hrs of 07-04-2025, 132 kV Aizawl-Kolasib and 132kV Badarpur-Kolasib lines tripped. Due to tripping of these elements, Kolasib, Tuirial and Bairabi areas of Mizoram Power system got isolated from NER grid and collapsed due to no source available in these areas. Load loss of 1 MW occurred.



As per DR analysis, Y-N fault with Iy-922 A, In-819 A initiated at 03:34:05.236 Hrs which was cleared within 510 msec from Badarpur end on operation of DP, ZII (ZIII start) and within 509 msec on ZIV trip from Kolasib end. For 132 kV Aizawl-Kolasib line, fault cleared within 418 msec from Aizawl end on DP, ZII (ZIII start). DR of different time submitted at Kolasib end. There was no tripping from Kolasib end (ZIV start as per EL)

Fault is suspected fault in downstream of Kolasib S/S as ZIV operated from Kolasib end (Fault distance-3.4 Km as per EL).

Following observations:

- Protection system of downstream feeder and HV side transformer failed to isolate the fault due to which fault was cleared by tripping of healthy 132 kV Aizawl-Kolasib & 132 kV Badarpur-Kolasib lines. P&ED Mizoram needs to ensure healthiness of protection system of 132 kV Kolasib-Tuirial line.
- DR time drift of 5 min observed at Kolasib end for 132 kV Badarpur Line & 2 min for 132 kV Aizawl line.

- Non-submission of Flash report and detailed report by P&ED Mizoram & NEEPCO which is a violation of Clause 37.2 (b) & 37.2 (e) of IEGC regulation 2023.

Similar incident occurred at 15:33 hrs of 05.05.2024, 15:28 hrs of 13.08.2024, 14:24 Hrs of 20-03-2025 & 05:52 Hrs of 12.05.2025.

P&ED Mizoram to share the root cause of the event and update the actions taken on the above-mentioned issues.

Deliberation

Exact location of fault not known by P&ED Mizoram.

NERLDC highlighted the issue of frequent tripping of 132 kV Aizawl-Kolasib & 132 kV Badarpur-Kolasib line for fault beyond the line causing grid disturbance in Kolasib area which is the cause of concern.

POWERGRID informed that on 12.05.2025, fault was in 132 kV Tuirial-Kolasib line which was not cleared leading to tripping of healthy lines.

DR/EL of 132 kV Tuirial-Kolasib line to be submitted for proper analysis of the event.

Forum asked P&ED Mizoram to provide relay setting of all the elements connected to Kolasib including downstream elements. Also, Mizoram to conduct relay testing for checking the healthiness for 132 kV Kolasib – Tuirial and 132 kV Kolasib-Bairabi Line. Mizoram informed that relay testing will be done by May-June'25 during internal audit.

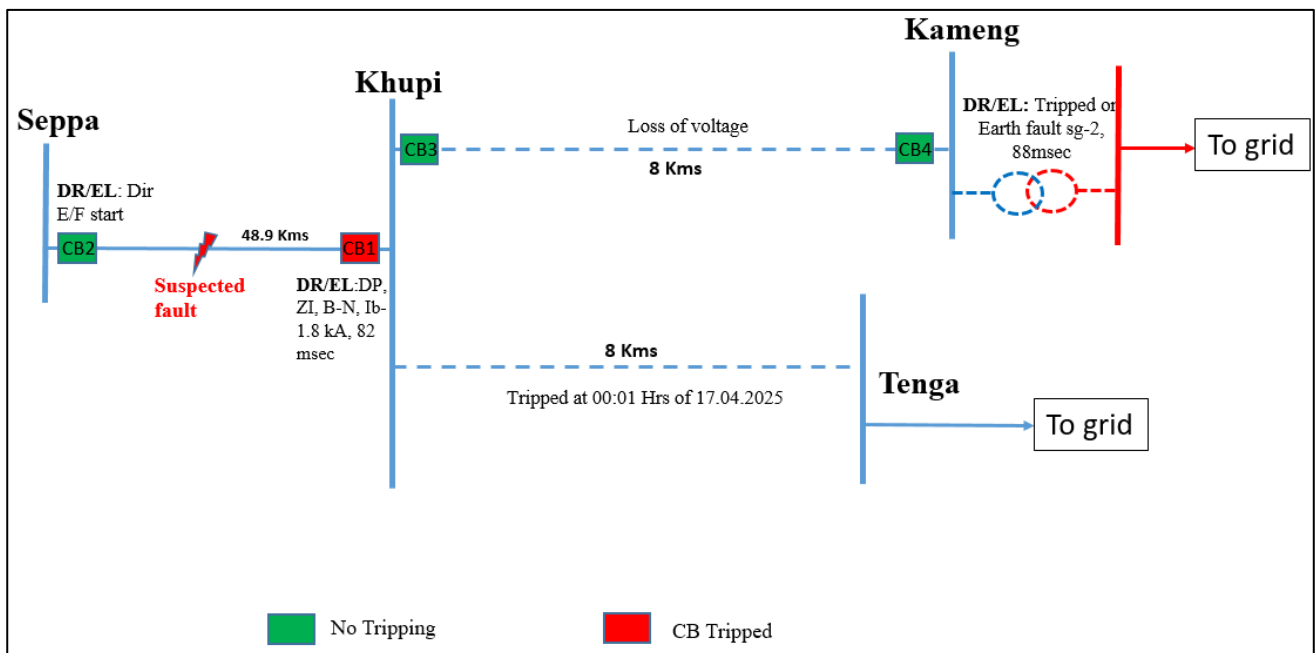
A separate meeting to be conducted among PSAG subgroup i.e NERPC, NERLDC, PowerGrid and Mizoram to holistically review the settings of elements at Kolasib SS.

B.9 Frequent tripping of 400/132 kV Kameng ICT and Grid disturbances in Tenga, Khupi and Seppa areas of Arunachal Pradesh during April, 2025:

400/132 kV Kameng ICT tripped twice during Apr'2025 causing grid disturbance in Tenga, Khupi & Seppa areas of Arunachal Pradesh which is a matter of serious concern.

Event 1: At 13:58 Hrs of 17th April'25

Prior to the event, 132 kV Tenga-Khupi Line tripped at 00:01 Hrs of 17-04-2025. At 13:58 Hrs of 17.04.2025, 400/132 kV ICT at Kameng and 132 kV Khupi-Seppa line tripped resulting in grid disturbance in 132 kV Kameng S/S of NEEPCO, Khupi and Seppa areas of Arunachal Pradesh. Load loss of 1 MW occurred.



As per DR analysis, B-N fault with Ib-1.8 kA initiated at 14:01:22.820 Hrs which was cleared within 82 msec from Khupi end on operation of DP, ZI. Directional E/F started at 13:58:54.479 Hrs and no tripping from Seppa end.

As intimated by DoP Arunachal Pradesh, vegetation B-N fault in 132 kV Khupi-Seppa Line at a distance of 28.3 Km from Khupi end.

At 13:58:52.814 Hrs, Kameng ICT tripped on E/F Stg-II within 88 msec which seems to be unwanted.

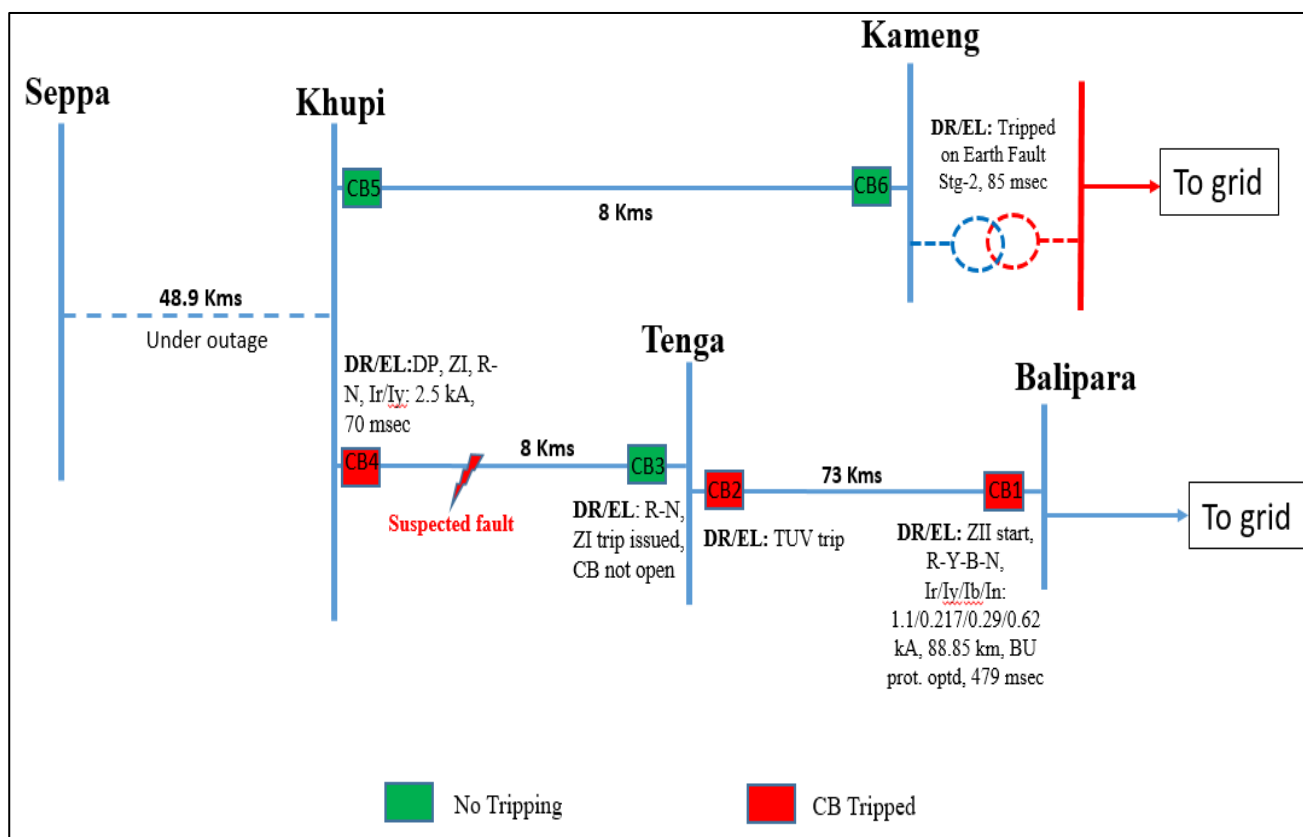
Following observations:

- Instantaneous tripping of Kameng ICT on E/F Stg-II during fault in downstream lines is unwanted. Maloperation of the ICT HV side protection is likely due to very low current pick up settings for High set B/U E/F protection. High set Backup E/F setting needs to be reviewed and coordinated to prevent unwanted tripping for the fault beyond protected zone.
- DR analog and digital channel of Kameng ICT & 132 kV Khupi-Seppa Line needs to be standardized as per recommendations in FOLD working group.
- Non-submission of flash report and detailed report by DoP Arunachal Pradesh & NEEPCO which is a violation of Clause 37.2 (b) & 37.2 (e) of IEGC regulation 2023.

Event 2: At 18:15 Hrs of 24th April'25

Prior to the event, 132 kV Khupi-Seppa line was under outage. At 18:15 Hrs of 24.04.2025, 400/132 kV ICT at Kameng, 132 kV Balipara-Tenga line and 132 kV

Tenga-Khupi line tripped resulting in grid disturbance in 132 kV Kameng S/S of NEEPCO and Tenga, Khupi and Dikshi areas of Arunachal Pradesh. Load loss of 13 MW occurred.



As per DR analysis, R-N fault (Ir-2.5 kA, In-2.5 kA) initiated at 18:15:35.763 Hrs in 132 kV Tenga-Khupi Line which was cleared within 70 msec from Khupi end on operation of DP, ZI. From Tenga end, DEF start & ZI trip command issued. However, Tenga CB did not open.

Due to non-opening of CB at Tenga, fault was continuously feeding through 132 kV Balipara-Tenga line which was cleared by tripping of Balipara CB within 479 msec on operation of BU E/F O/C (Z2 started).

At 18:15:49.699 Hrs, Kameng ICT tripped on E/F Stg-II within 85 msec which seems to be unwanted.

Following observations:

- Non-opening of CB at Tenga end for 132 kV Khupi Line despite issuance of ZI trip is a matter of concern. The same needs to be checked by DoP Arunachal Pradesh.
- Instantaneous tripping of Kameng ICT on E/F Stg-II during fault in downstream lines is unwanted. Maloperation of the ICT HV side protection is likely due to very low current pick up settings for High set B/U E/F protection.

High set Backup E/F setting needs to be reviewed and coordinated to prevent unwanted tripping for the fault beyond protected zone.

- DR analog and digital channel of Kameng ICT needs to be standardized as per recommendations in FOLD working group.
- The back-up protection settings at Kameng, Khupi and Tenga needs to be reviewed and coordinated as per NER protection philosophy.
- Non-submission of flash report and detailed report by DoP Arunachal Pradesh & NEEPCO which is a violation of Clause 37.2 (b) & 37.2 (e) of IEGC regulation 2023.

Frequent tripping of 400/132 kV Kameng ICT was intimated to NEEPCO vide email dated 28th April'25.

Similar incident occurred on 05.05.2024, 09.07.2024, 11.07.2024, 19.07.2024, 12.08.2024 & 18.08.2024.

DoP Arunachal Pradesh & NEEPCO may update the actions taken on the above-mentioned issues.

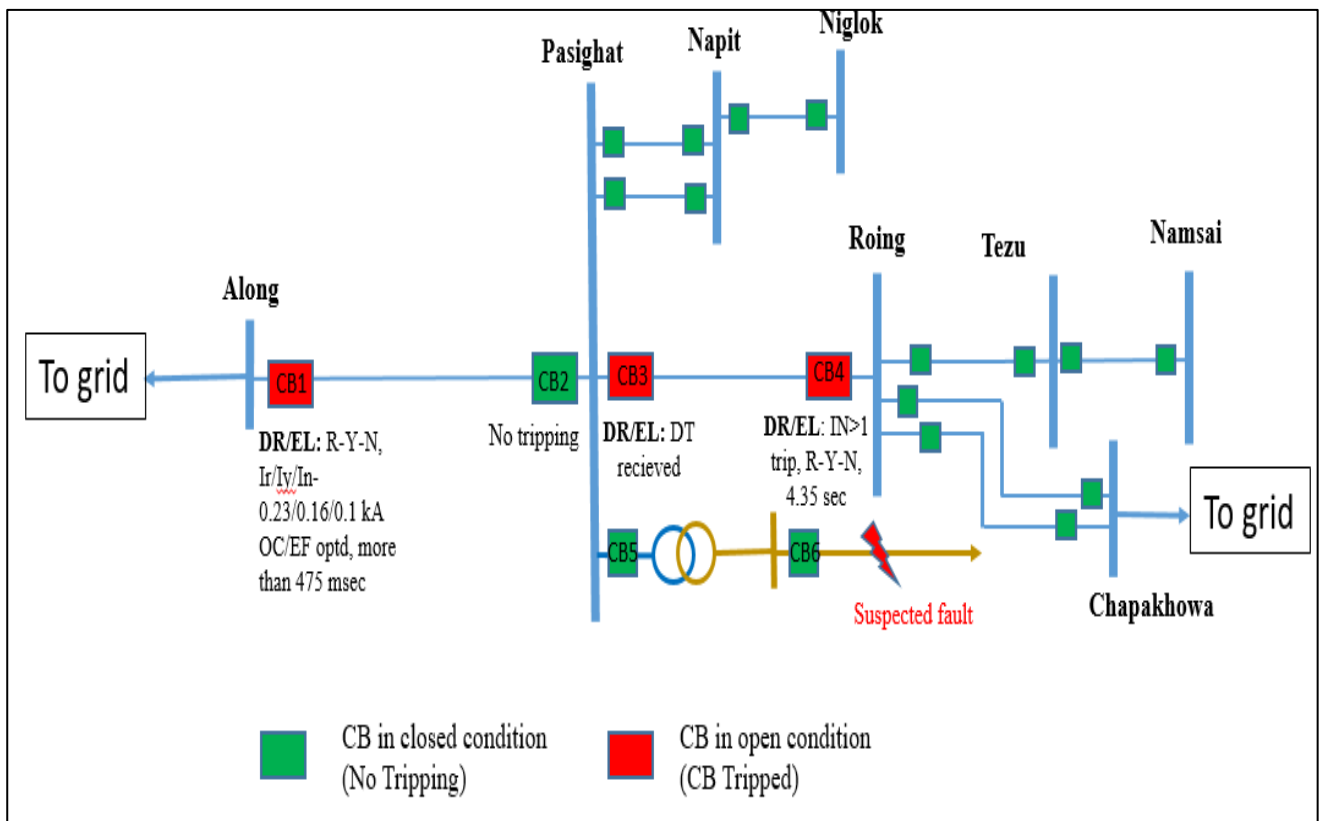
Deliberation

Regarding non-opening of CB at Tenga end for 132 kV Khupi Line despite issuance of ZI trip, DoP AR. Pradesh informed that 33 kV line fell on DC supply due to which trip coil at Tenga end got burnt. Issue has been resolved now.

Regarding instantaneous tripping of Kameng ICT on EF, MS NERPC instructed that the settings to be reviewed in a joint meeting between NERPC, NERLDC , DoP AR. Pradesh, NEEPCO and Powegrid.

B.10 Grid Disturbance in Pasighat and radially connected Napit & Niglok areas of Arunachal Pradesh on 22-04-2025:

At 00:37 Hrs of 22-04-2025, 132 kV Along-Pasighat & 132 kV Roing - Pasighat lines tripped resulting in grid disturbance in Pasighat and radially connected Napit & Niglok areas of Arunachal Pradesh. Load loss of 22 MW occurred.



As per DR analysis, R-Y-N fault with Ir-237 A, Iy-167 A, In-107 A observed which was cleared in more than 475 msec from Along end on operation of OC/EF protection. No tripping from Pasighat end as per submitted DR. Fault duration recorded at Pasighat EL - 3.726 sec.

For 132 kV Roing-Pasighat Line, R-Y-N fault initiated at 00:37:16.786 Hrs and cleared within 4.35 sec on operation of E/F from Roing end and DT recieved at Pasighat end.

Following observations:

- Protection system of downstream feeder and HV side of transformer failed to isolate the fault resulting in clearing of fault by tripping of healthy 132 kV Along-Pasighat and 132 kV Roing-Pasighat Lines.
- For DR submitted for 132 kV Along-Pasighat & 132 kV Roing-Pasighat lines, pre-fault data is not visible which is the cause of concern. As per DR Standardisation report of FOLD Working Group 3, pre-fault data of 500 msec and post fault data of 2500 msec should be visible in the DR window.
- DR Time drift of 2 min observed at Pasighat for 132 kV Along Line and 13 min for 132 kV Roing Line.

- Non-submission of detailed report by DoP Arunachal Pradesh which is a violation of Clause 37.2 (e) of IEGC regulation 2023.

Similar kind of event occurred at 16:01 Hrs of 03-05-2025 in which tripping of 132 kV Along-Pasighat & 132 kV Roing - Pasighat lines led to loss of power in Pasighat, Napit & Niglok areas of Arunachal Pradesh. Such repeated grid disturbances are the cause of concern.

During 2024, similar incident occurred on 24.09.2024, 25.09.2024, 16.11.2024 and 08.12.2024.

DoP Arunachal Pradesh to share the root cause of the event and update the actions taken on the above-mentioned issues.

Deliberation

DoP Ar. Pradesh apprised that the fault was in downstream 33kV line and HV side of ICT at Pasighat which was not cleared by HV side Transformer due to faulty trip coil. The same has been replaced. Other 132/33 kV Transformer trip coil is faulty. The same will be kept isolated till the issue is rectified.

NERLDC informed that such incident reoccurred on 3rd May'25.

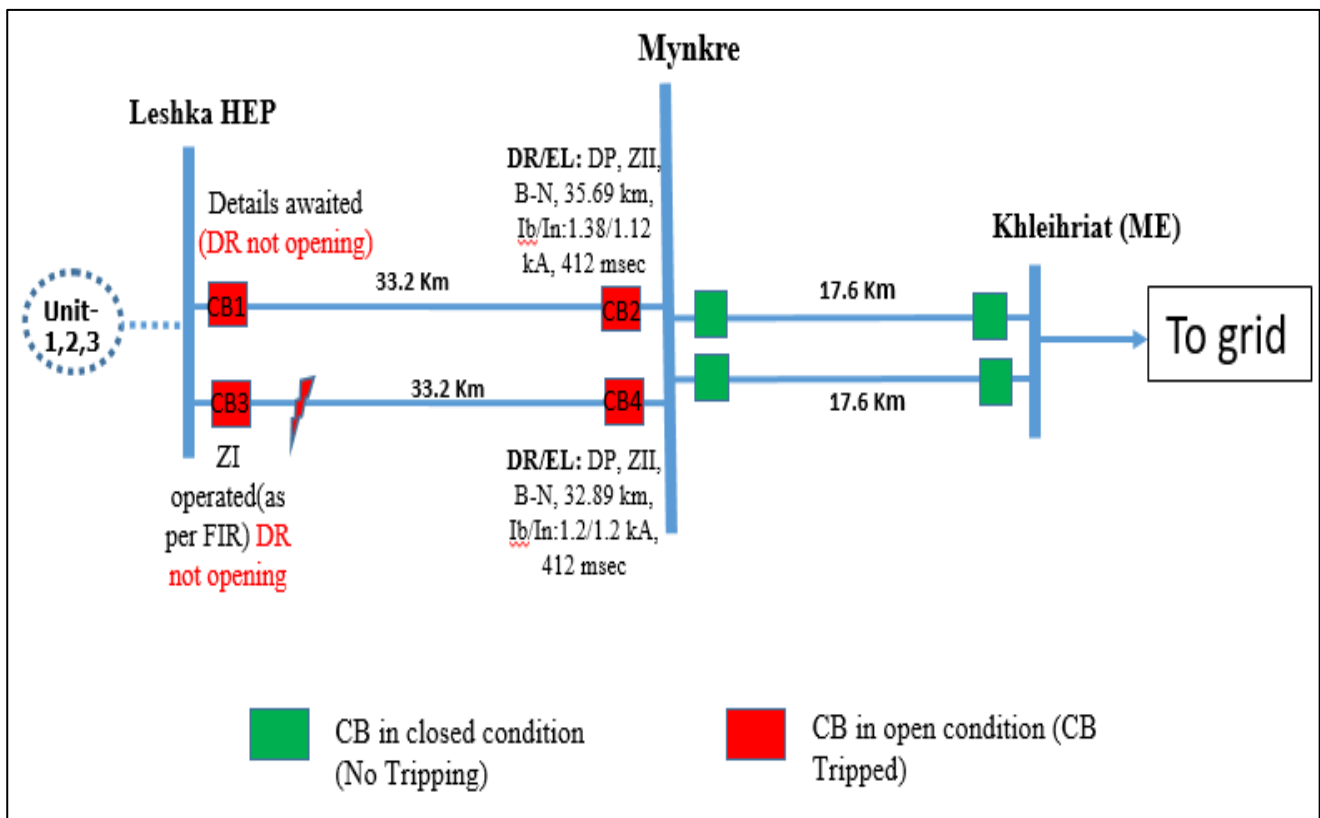
Forum opined that the downstream fault should have been cleared by 33 kV feeder itself or the HV side of the ICT and exhorted DoP Ar. Pradesh to resolve the issues at the earliest.

B.11 Grid disturbance in Leshka HEP of Meghalaya Power system on 27th April & 28th April, 2025:

Leshka HEP of Meghalaya power system was connected with rest of NER grid through 132 kV Leshka-Mynkre I & II Lines.

Event 1: At 02:43 Hrs of 27-04-2025

At 02:43 Hrs of 27-04-2025, 132 kV Leshka-Mynkre I & II Lines tripped due to which Leshka Unit-1,2&3 tripped due to loss of evacuation path. Generation loss of 119 MW occurred.



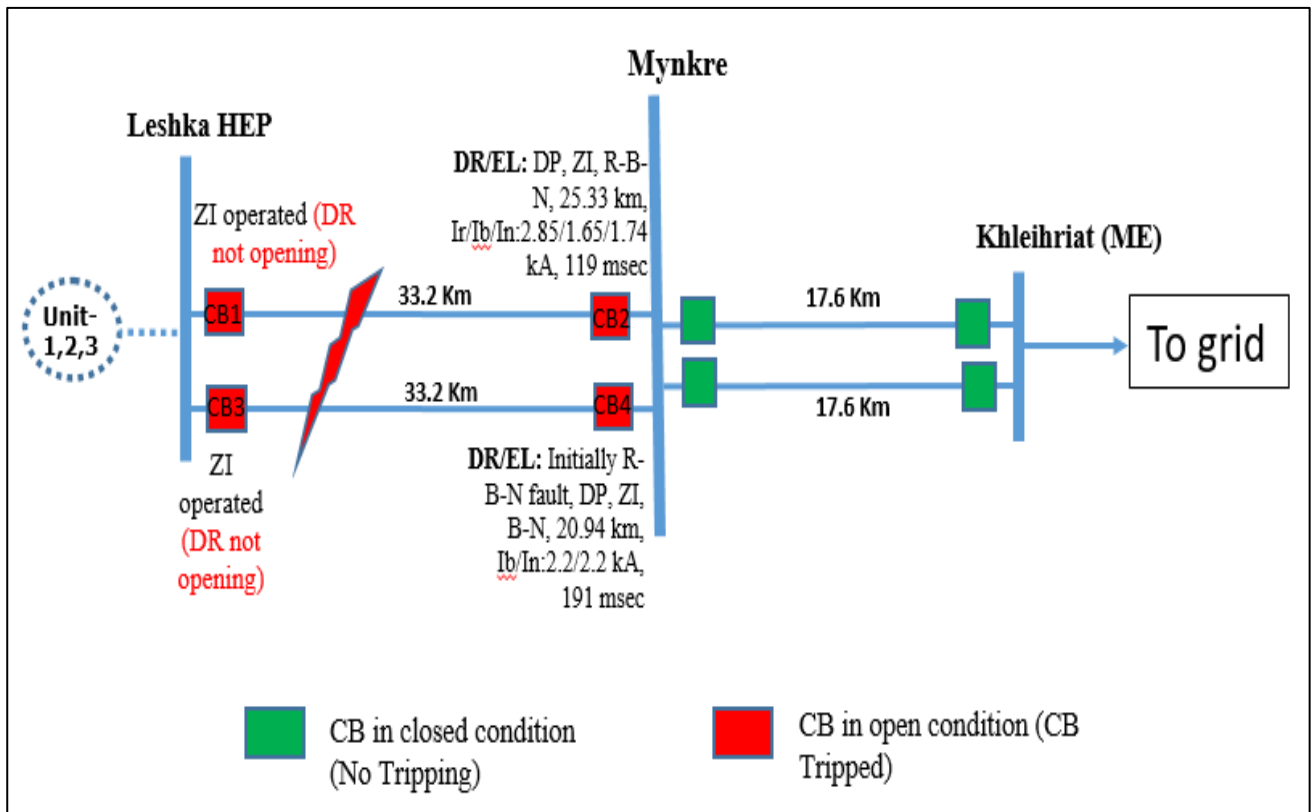
As per DR analysis, solid B-N fault (Ib-1.38 kA, In-1.12 kA) initiated in 132 kV Leshka-Mynkre I & II lines at 02:36:15.155 Hrs which was cleared within 412 msec from Mynkre end on operation of DP, ZII. As per FIR, ZI operated at Leshka end (DR file of Leshka end is not opening)

Following observations:

- Suspected fault in 132 kV Leshka-Mynkre II line as fault distance of 32.89 Km from Mynkre end (as per EL)
- Leshka end CB failed to isolate the fault resulting in clearing of fault by tripping of healthy 132 kV Leshka-Mynkre I line from remote end on ZII.
- DR file at Leshka end is not opening for both the lines. The same needs attention from MePGCL.
- DR Time drift of 7 min observed at Mynkre end for 132 kV Leshka I & II lines.
- Non-submission of detailed report by MePGCL which is a violation of Clause 37.2 (e) of IEGC regulation 2023.

Event 2: At 07:04 Hrs of 28-04-2025

At 07:04 Hrs of 28-04-2025, 132 kV Leshka-Mynkre I & II Lines tripped due to which Leshka HEP of Meghalaya got isolated from grid due to no source available in this area. No generation loss.



As per DR analysis of 132 kV Leshka-Mynkre I line, solid R-B-N fault (Ir-2.85 kA, Ib-1.65 kA, In-1.74 kA) initiated at 06:54:44.787 Hrs which was cleared within 119 msec from Mynkre end on operation of DP, ZI (initially ZII started).

For 132 kV Leshka-Mynkre II Line, R-B-N fault initiated at 06:54:44.787 Hrs (Z2/Z3 started). After 59 msec, R-phase current disappeared. B-N fault was cleared within 191 msec from Mynkre end on operation of DP, ZI.

As per FIR, ZI operated at Leshka end (DR file of Leshka end is not opening)

Following observations:

- DR file at Leshka end is not opening for both the lines. The same needs attention from MePGCL.
- DR time drift of 10 min observed at Mynkre end for 132 kV Leshka I & II lines.

MePGCL may update the root cause of both the events and update the actions taken on the above-mentioned issues.

Deliberation

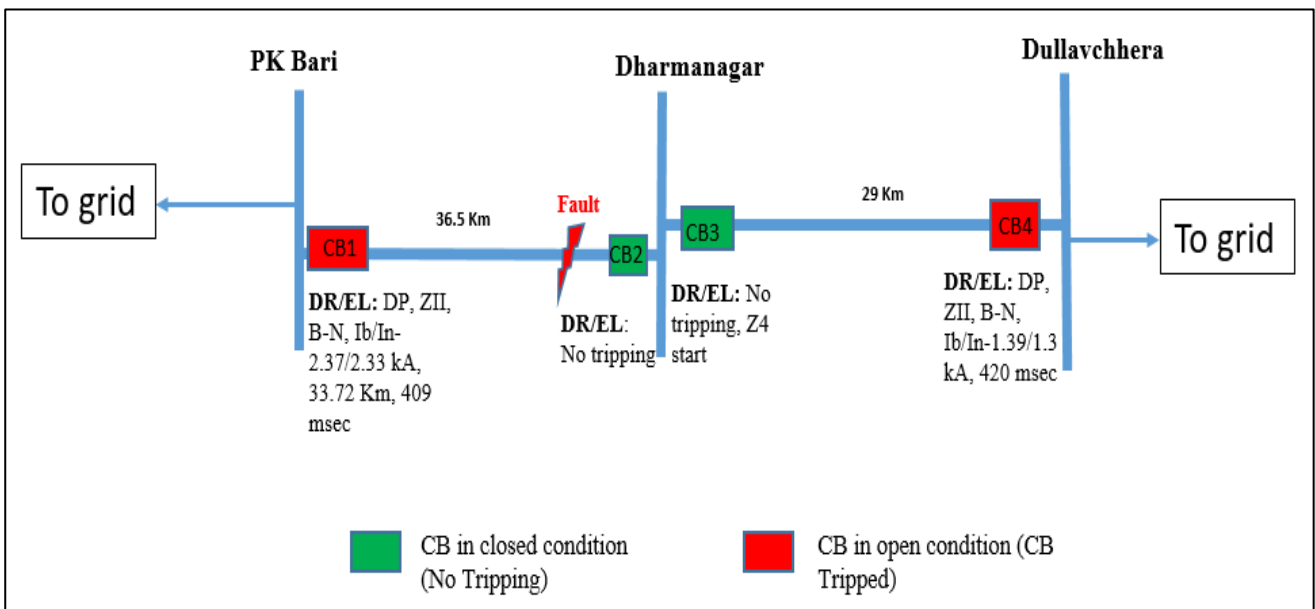
MePGCL clarified that fault occurred in both the lines in Event 1. Forum noted that lightning faults in 132 kV Leshka-Mynkre-Khliehriat corridor causes large no. of GDs and tripping of Leshka units. Forum asked Meghalaya to check tower footing resistance of all towers in corridor and to install TLSA on the line. Meghalaya replied

that DPR had been sent to PSDF in Dec'24 and the matter is under discussion of TESSG of PSDF.

B.12 Grid Disturbance in Dharmanagar area of Tripura Power system on 28-04-2025:

Dharmanagar area of Tripura power system was connected to rest of NER grid through 132 kV Dharmanagar –Dullavcherra and 132 kV P K Bari – Dharmanagar lines.

At 09:07 Hrs of 28-04-2025, 132 kV Dharmanagar –Dullavcherra line and 132 kV P K Bari –Dharmanagar line tripped resulting in grid disturbance in Dharmanagar S/S. Load loss of 9 MW occurred.



As per DR analysis, solid B-N fault (Ib-2.37 kA, In-2.33 kA) in 132 kV PK Bari-Dharmanagar Line initiated at 09:03:35.099 Hrs which was cleared within 409 msec from PK Bari end on operation of DP, ZII.

For 132 kV Dharmanagar-Dullavcherra Line, fault cleared from Dullavcherra end within 420 msec on operation of ZII. Z4 started at 09:05:46.628 Hrs. Fault current disappears after 420 msec.

Following observations:

- Suspected fault in 132 kV PK Bari-Dharmanagar line as fault distance is 33.72 Km from PK Bari end. Also, Z4 started at Dharmanagar end for 132 kV Dullavcherra line indicating fault in reverse direction.

- Protection system at Dharmanagar end for 132 kV PK Bari Line failed to isolate the fault in line resulting in clearance of fault by tripping of healthy 132 kV Dharmanagar-Dullavchhera Line from Dullavchhera end on ZII.
- DR time drift of 4 min observed at PK Bari end for 132 kV Dharmanagar Line.
- Non-submission of flash report and detailed report by TSECL which is a violation of Clause 37.2 (b) & 37.2 (e) of IEGC regulation 2023.

Similar incident occurred on 10.03.2024, 16.03.2024 and 22.04.2024.

TSECL to share the root cause and provide update on the above mentioned issues.

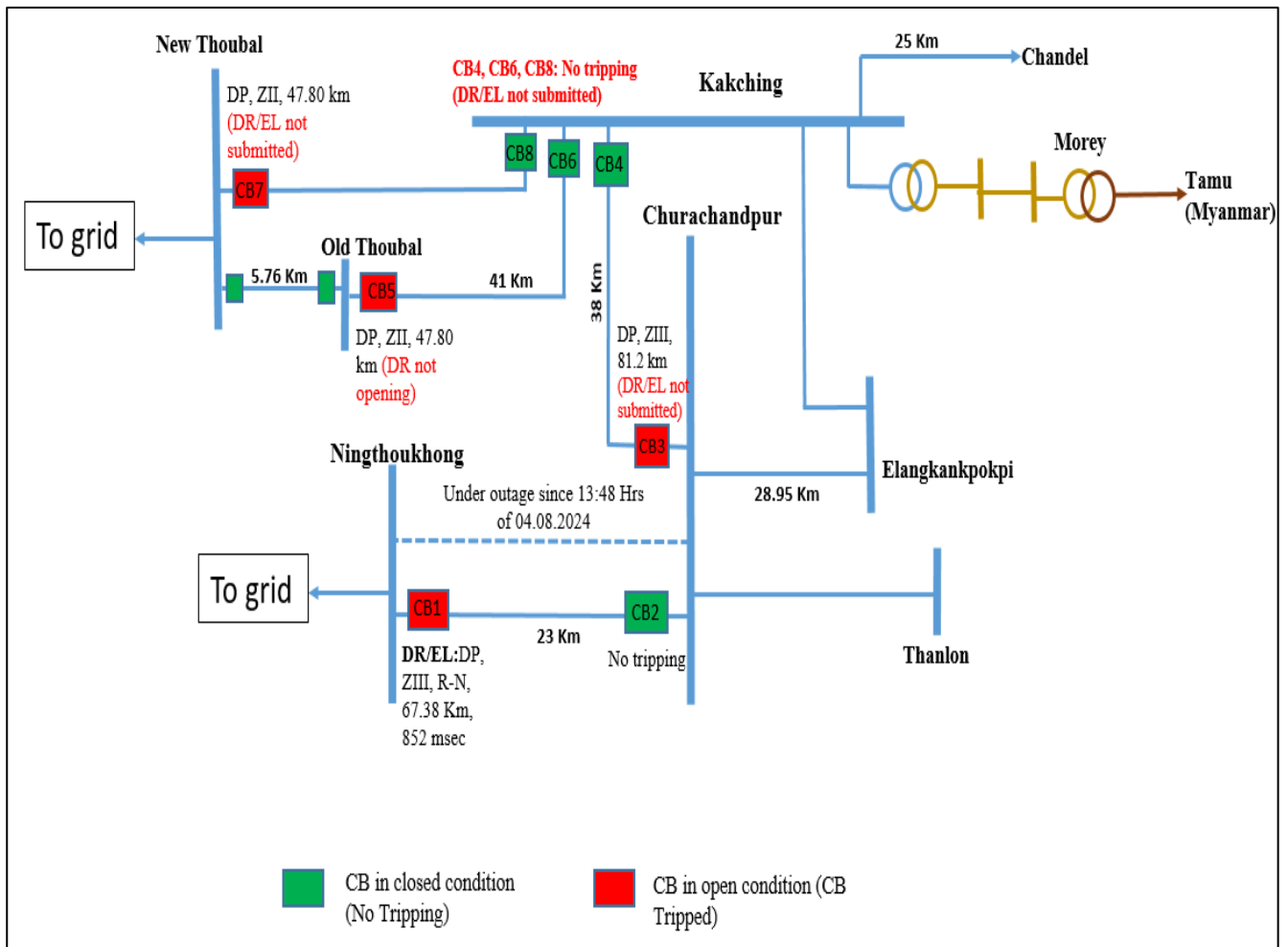
Deliberation

TSECL was not present in the meeting so the agenda could not be discussed.

B.13 Grid disturbance in Churachandpur, Elangkankpokpi, Thanlon, Kakching, Chandel and Morey areas of Manipur and Tamu area Myanmar Power system on 28-04-2025:

Churachandpur, Elangkankpokpi, Thanlon, Kakching, Chandel and Morey areas of Manipur and Tamu area Myanmar Power system were connected to rest of NER grid through 132 kV Ningthoukhong-Churachandpur II, 132 kV Old Thoubal-Kakching & 132 kV New Thoubal-Kakching Lines. Prior to the event, 132 kV Ningthoukhong-Churachandpur I line is under outage since 13:48 Hrs of 04.08.2024.

At 13:43 Hrs of 28-04-2025, 132 kV Ningthoukhong-Churachandpur II, 132 kV Old Thoubal-Kakching, 132 kV New Thoubal-Kakching & 132 kV Churachandpur-Kakching Lines tripped. Load loss of 30 MW occurred.



As per DR analysis of 132 kV Ningthoukhong-Churachandpur II Line, R-N fault (Ir-1.26 kA, In-1 kA) initiated at 13:42:32.292 Hrs which was cleared within 852 msec from Ningthoukhong end on operation of DP, ZIII.

At 13:42:20.911 Hrs, 132 kV Old Thoubal-Kakching Line tripped from Old Thoubal end (as per EL, DR file not opening)

Suspected fault is beyond Churachandpur and Kakching Substations as fault distance of 67.38 Km from Ningthoukhong end.

Following observations:

- Exact location of fault could not be concluded as DR/EL not submitted by MSPCL.
- It is unclear which protection system operated and cleared the fault from Old Thoubal end for 132 kV Kakching Line.
- SOE not recorded for tripping of 132 kV Churachandpur-Kakching Line & 132 kV Old Thoubal-Kakching Line. The same needs attention from MSPCL/SLDC Manipur team.

- Non-submission of flash report and detailed report by MSPCL which is a violation of Clause 37.2 (b) & 37.2 (e) of IEGC regulation 2023.

Similar incident occurred on 05.07.2024.

MSPCL may share the root cause and provide update on the above mentioned issues.

Deliberation of 79th PCC & E-mail received from MSPCL

Sl. No.	Observations	Remarks
1	Exact location of fault could not be concluded.	Vegetation fault was in 132 kV Kakching-Chandel Line
2	Protection system of 132 kV Kakching-Chandel line failed to isolate the fault.	Protection Circuit checked and distance relay replaced, settings and PSL tested.
3	132 kV New Thoubal-Kakching line tripped on ZII from New Thoubal end within 635 msec. ZII time delay needs to be revised as per protection philosophy.	Settings reviewed, will be updated once approved.
4	132 kV Old Thoubal-Kakching Line on ZIII from Old Thoubal end within 680 msec. ZIII time delay needs to be revised as per protection philosophy.	Settings reviewed, will be updated once approved.
5	132 kV Elangkankpokpi-Kakching line tripped on E/F from Elangkankpokpi end within 150 msec. B/U E/F protection needs to be coordinated with ZIII time delay as per protection philosophy. Phase sequence issue observed	Settings reviewed, settings changed as per standard template, testing yet to be done.
6	132 kV Churachandpur-Kakching line tripped on ZIII from Churachandpur end within 841 msec which is inferred unwanted. ZIII reach needs to be reviewed and set as per protection philosophy.	Setting review yet to be done
7	132 kV Ningthoukhong-Churachandpur II line tripped on ZIII from Ningthoukhong end within 852 msec	Forum urged MSPCL to review the ZIII reach at Ningthoukhong end.
8	DR/EL not submitted for tripping of 132 kV New Thoubal-Kakching, 132 kV Old Thoubal-Kakching, 132 kV Churachandpur-Elangkankpokpi & 132 kV Elangkankpokpi-Kakching Lines	Forum asked MSPCL to submit all the DR/EL files

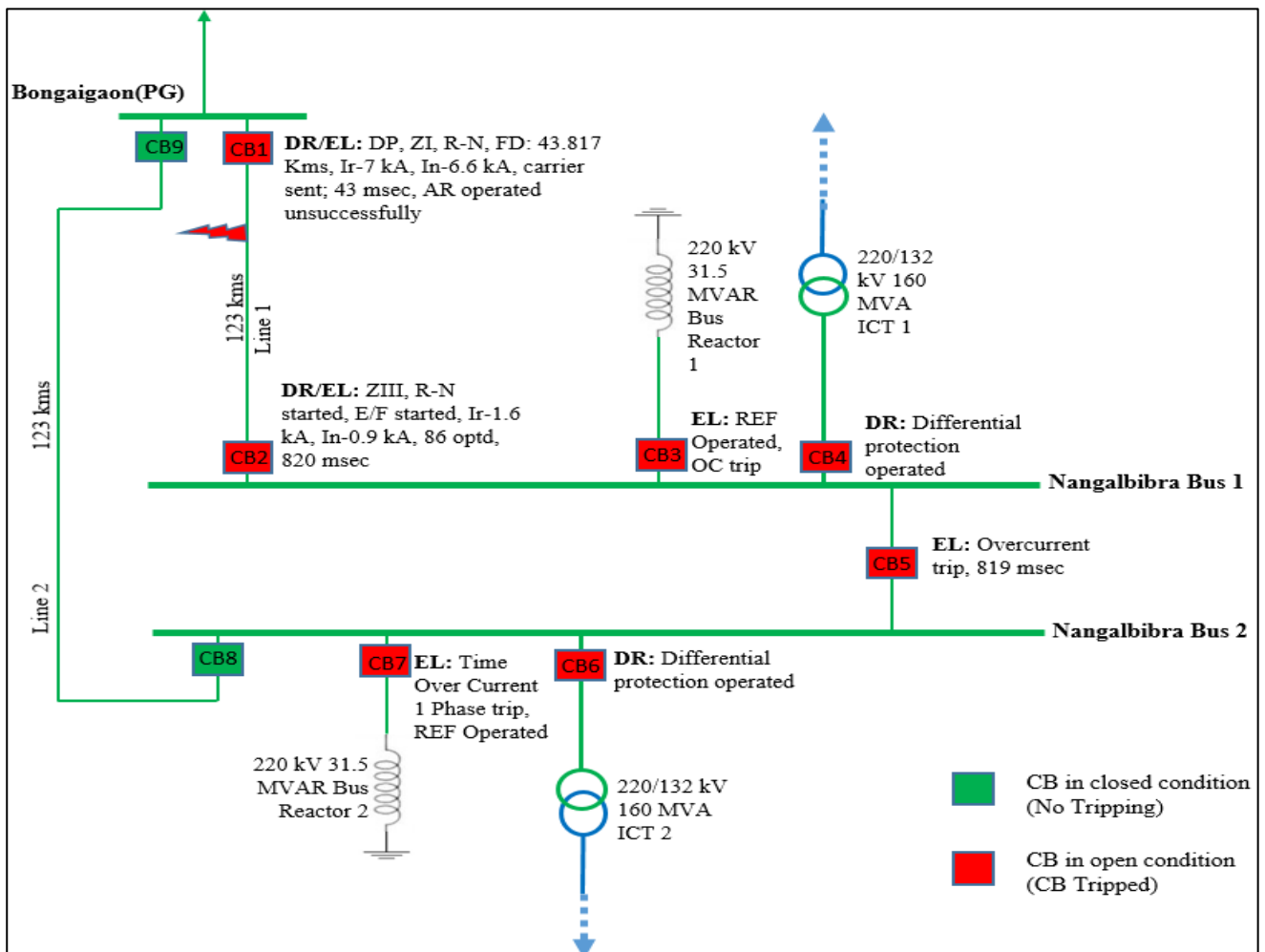
NERPDC highlighted that ZIII should not have operated at Ningthoukhong end for Churachandpur line and instructed Mizoram to check the reach of ZIII and limit it to the 100% of Main line + 100% of the longest line at remote end.

B.14 Blackout of 220 kV Bus-I at Nangalbibra(ST) on 26-04-2025:

Nangalbibra(ST) substation is connected with rest of NER grid through 220 kV Bongaigaon-Nangalbibra I & II Lines.

Prior to the event, 220 kV Bongaigaon-Nangalbibra I, 31.5 MVAR B/R-I & 160 MVA ICT-I were connected to 220 kV Bus-I. And, 220 kV Bongaigaon-Nangalbibra II, 31.5 MVAR B/R-II & 160 MVA ICT-II were connected to 220 kV Bus-II.

At 20:44 Hrs of 26-04-2025, 220 kV Nangalbibra Bus-I tripped resulting in tripping of all elements connected to Bus-I. Also, 31.5 MVAR B/R-II & 160 MVA ICT-II tripped.



As per DR analysis, R-N fault (Ir-7 kA, In-6.6 kA) initiated at 20:44:43.000 Hrs which was cleared within 43 msec from Bongaigaon end on operation of DP, ZI (Carrier send). AR operated after a dead time of 1 sec but tripped due to persistent fault. At Nangalbibra end, ZIII and E/F started and Carrier was received. However, CB did not trip. After 820 msec, 86 relay operated at Nangalbibra.

Before clearing of fault from Nangalbibra end for Bongaigaon-1 line, 220 kV Bus coupler at Nangalbibra tripped on Over Current and cleared fault in 819 msec (as per EL, DR file not opening).

Also, 220/132 kV ICT-I & II tripped on differential protection. B/R-I & II tripped on operation of REF protection & OC trip (as per EL, DR file not opening)

Following Observations:

- Non-tripping of Nangalbibra CB despite receiving carrier from Bongaigaon is the cause of concern. NBTL need to check the healthiness of the carrier aided scheme in 220 kV Bongaigaon-Nangalbibra I Line.
- Both ZIII and E/F started at Nangalbibra end for 220 kV Bongaigaon-1 line. However, on which protection CB opened is not clear from the submitted DR.
- Both 200/132 kV ICTs at Nangalbibra tripped on differential protection which seems to be unwanted.
- B/R-I & II tripped on operation of REF protection & OC trip for fault in 220 kV Bongaigaon-Nangalbibra I Line which seems unwanted.
- DR channels of 220/132 kV ICT-I & II at Nangalbibra needs to be standardized as per recommendation in FOLD working group-3.

NBTL may update the actions taken on the above-mentioned issues.

Deliberation

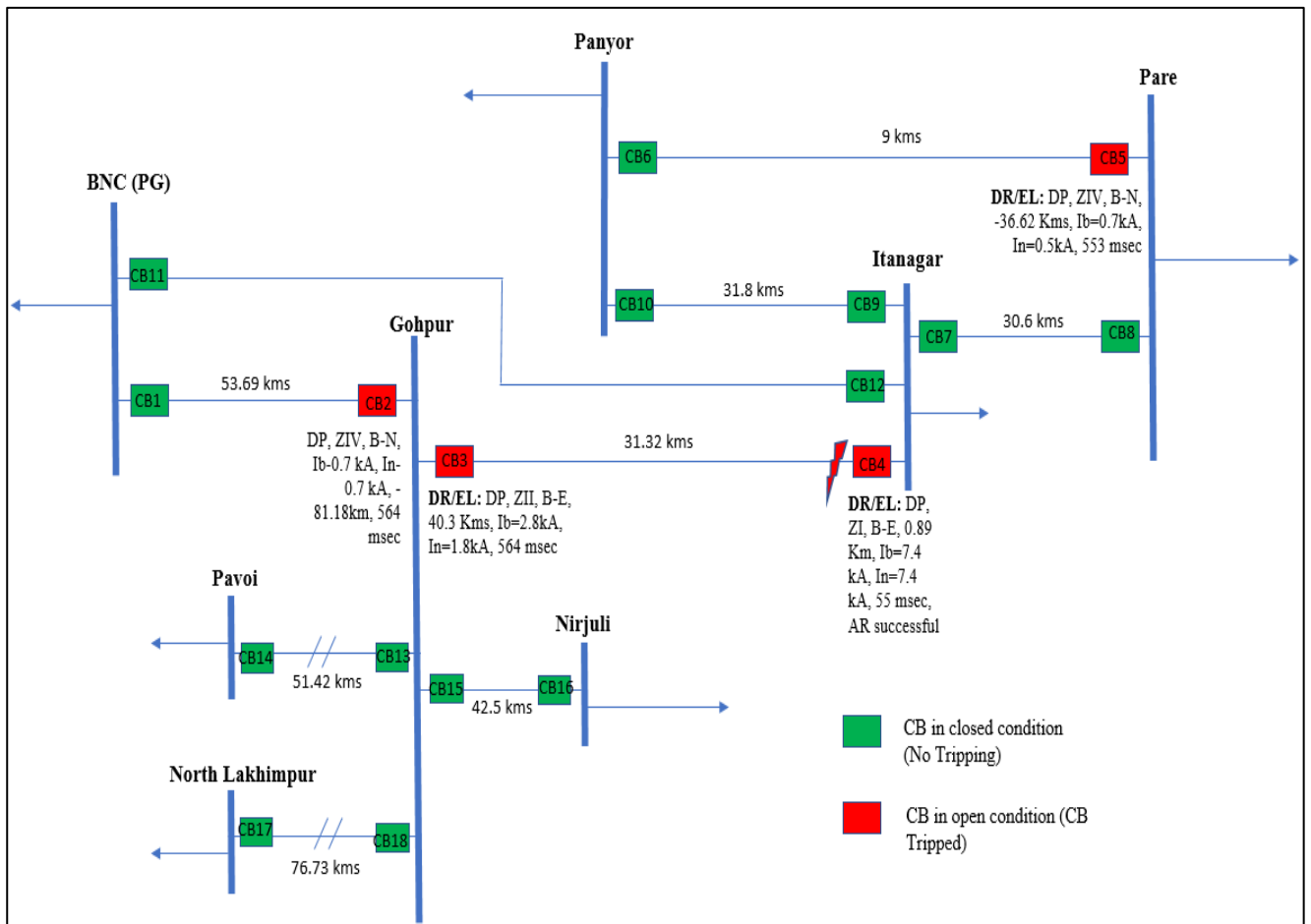
NBTL informed as follow-

1. Tripping of Bongaigaon-Nangalbibra line from Nangalbibra end in ZIII – settings issue and the same will be revised in coordination with NERPC.
2. Tripping of ICTs at Nangalbibra – Vector group was incorrectly mapped, so there was differential current for external faults. The matter has been resolved.
3. Tripping of Bus reactors – stabilizing resistor of the REF failed so it tripped on REF. The matter has been resolved.

Forum instructed Sterlite to review the settings in coordination with NERPC and NERLDC and get protection approval from NERPC at the earliest. Also, Forum suggested NBTL to coordinate O/C setting of Bus coupler with ZIII time delay of Line.

B.15 Multiple tripping on 28-04-2025:

At 10:15 Hrs of 28-04-2025, 132 kV Gohpur-Itanagar, 132 kV Panyor-Pare & 132 kV BNC-Gohpur Lines tripped.



As per DR analysis, B-N fault (Ib-7.4 kA, In-7.4 kA) in 132 kV Gohpur-Itanagar Line initiated at 10:15:15.920 Hrs which was cleared within 55 msec from Itanagar end on operation of DP, ZI (Carrier Send). B-N fault converted into R-Y-N fault (Ir-0.36 kA, Iy-0.56 kA, In-0.9 kA). Fault was cleared within 564 msec from Gohpur end on DP, ZII. Autorecloser operated successfully from Itanagar end.

132 kV BNC (PG)-Gohpur Line tripped on Z4 within 564 msec from Gohpur end. There was no tripping from BNC (PG) end.

At 10:15:24.880 Hrs, 132 kV Panyor-Pare Line tripped on Z4 within 553 msec from Pare end. There was no tripping from Panyor end.

Following observations:

- Carrier was send from Itanagar end to Gohpur end. However, 132 kV Gohpur-Itanagar Line tripped after ZII time delay. AEGCL needs to check the carrier aided tripping scheme at Gohpur.
- AR operated successfully from Itanagar end for 132 kV Gohpur Line. However, AR not attempted at Gohpur end.
- ZII time delay at Gohpur end for 132 kV Itanagar Line needs to be reviewed and set as per NERPC Protection philosophy.

- Tripping of 132 kV Panyor-Pare Line on Z4 from Pare end for fault in 132 kV Gohpur-Itanagar Line seems unwanted. Z4 reach needs to be reviewed.

Similar event occurred on 16.05.2024.

IndiGrid/AEGCL to share the root cause and update the actions taken on the above-mentioned issues.

Deliberation

Regarding tripping of 132 kV Gohpur-Itanagar line at Gohpur end on ZII, forum noted that ZII should have operated in 350 msec and carrier aided tripping should have occurred. AEGCL informed that, regarding carrier aided protection, testing for carrier will be conducted during May'25 and the time delay setting will be revised shortly.

Regarding tripping of 132 kV Gohpur-BNC line at Gohpur on ZIV, Forum requested AEGCL to revise the reach of ZIV as it should not be more than 50% of the shortest line as per NERPC protection protocol.

Regarding tripping at Pare end, NEEPCO acknowledged that there is reach issue of ZIV and stated that the same will be revised shortly.

Forum, in general noted that protection settings of NEEPCO stations are deviating from NERPC protection protocol and instructed NEEPCO to modify the settings at all of their stations as per the protocol.

B.16 Frequent tripping of 132 kV Agartala-Rokhia D/C lines during April, 2025:

132 kV Agartala - Rokhia D/C Lines have tripped eight (8) times in the month of April 2025 which is a matter of serious concern. As per DR analysis, all the faults are solid in nature.

The details of tripping are tabulated as below:

Sl. No.	Element Name	Owner	Tripping Date and Time	DR analysis (End A)	DR analysis (End B)
1	132 kV Agartala - Rokhia 2 Line	TSECL	10-04-2025 20:10	DP, ZI, B-N, Ib-3.3 kA, In-2.6 kA, 61 msec	DP, ZI, R-N, Ir-3.3 kA, In-3.9 kA, 61 msec
2	132 kV Agartala - Rokhia 2 Line	TSECL	11-04-2025 19:05	DP, ZI, B-N, Ib-3.3 kA, In-2.6 kA, 60 msec	DP, ZI, R-N, Ir-3.1 kA, In-3.9 kA, 61 msec
3	132 kV Agartala - Rokhia 2 Line	TSECL	13-04-2025 05:21	DP, ZI, B-N, Ib-3.8 kA, In-2.8 kA, 61 msec	DP, ZI, R-N, Ir-3.8 kA, In-3.8 kA, 60 msec
4	132 kV Agartala - Rokhia 2 Line	TSECL	15-04-2025 17:59	DP, ZI, B-N, Ib-3.8 kA, In-2.8 kA, 60 msec	DP, ZI, Y-N, Iy-3 kA, In-3.6 kA, 60 msec
5	132 kV Agartala - Rokhia 2 Line	TSECL	17-04-2025 08:44	DP, ZI, B-N, Ib-3.4 kA, In-2.7 kA, 59 msec	DP, ZI, R-N, Ib-3.5 kA, In-4.2 kA, 59 msec
6	132 kV Agartala - Rokhia 1 Line	TSECL	17-04-2025 12:47	DP, ZI, R-N, Ir-3 kA, In-2.5 kA, 72 msec	DP, ZI, Y-N, Iy-3.1 kA, In-3.5 kA, 60 msec
7	132 kV Agartala - Rokhia 1 Line	TSECL	28-04-2025 10:34	DP, ZI, Y-N, Iy-10 kA, In-9.9 kA, 72 msec	DP, ZI, R-N, Ir-1.8 kA, In-2.3 kA, 60 msec
8	132 kV Agartala - Rokhia 2 Line	TSECL	28-04-2025 10:35	DP, ZI, B-N, Ib-5.8 kA, In-5.2 kA, 70 msec	DP, ZI, R-N, Ir-1.9 kA, In-2.5 kA, 58 msec

Such repeated tripping is a cause of concern as it threatens the reliability of the Tripura Power System.

Therefore, TSECL is requested to carry out regular patrolling of these lines and carry out measurement of tower footing resistance of all towers to know whether the values are within permissible limit.

Also, phase sequence issue is observed in 132 kV Agartala - Rokhia D/C Lines which needs to be rectified by TSECL.

Members may discuss.

Deliberation

The matter could not be discussed as Tripura was not present in the meeting.

Forum suggested to carry out measurement of Tower footing resistance and ensure values are within permissible limit. TFR data to be submitted by Tripura within 15 days. Follow up to be done through mail.

Forum also suggested for TLISA installation in lightning prone areas.

B.17 Mapping of UFR in the SCADA Display for real time monitoring:

As per Clause 29(13)(d) of IEGC-23, SLDC shall ensure that telemetered data of feeders (MW power flow in real time and circuit breaker status) on which UFR and df/dt relays are installed is available at its control centre.

At present, mapping of UFR in SCADA display is available for 4 states namely, **Assam, Meghalaya, Nagaland & Tripura.**

Arunachal Pradesh, Manipur & Mizoram are requested to map UFR data in SCADA display in compliance with IEGC-23.

Deliberation

States utilities stated that as the matter is regularly discussed in OCC meetings, status updated will be provided in 226th OCC meeting.

Arunachal Pradesh: To be discussed in OCC meeting. (Latest update not provided)

Manipur: Payment issues with GE. By June-July'25

Mizoram: GE & Alstom updated the database. However, hardware work is pending. By June-July'25.

Forum urged all the utilities for testing of UFR relay. Checking of UFR relay to be conducted during 3rd party audits.

B.18 Status update on AR of lines and Carrier communication details:

NERLDC has prepared a google spreadsheet comprising the list of important transmission lines of NER for maintaining database of AR of lines and Carrier communication details.

<https://docs.google.com/spreadsheets/d/1WJHNB1zfgyewZT5G8escBY-dbgo1t8ZMZZ1j5N7Wal0/edit?pli=1&gid=1763021158#gid=1763021158>

Status as on 13.05.2025:

Sl. No.	Name of Utilities	AR status and Communication details	Remarks
1	KMTL	Not updated	
3	NEEPCO	Not updated	
4	NHPC	Not updated	
5	NTPC	Not updated	
6	OTPC	Not updated	
7	POWERGRID	Partially updated	
8	IndiGrid	Updated	

9	NBTL	Updated	
10	MUML	Updated	
11	DoP Arunachal Pradesh	Updated	
12	TSECL	Not updated	
13	TPGCL	Not updated	
14	DoP Nagaland	Updated	
15	MePTCL	Updated	
16	MePGCL	Not updated	
17	MSPCL	Not updated	
18	P&ED Mizoram	Not updated	
19	AEGCL	partially completed	
20	APGCL	partially completed	

All utilities are requested to update the google spreadsheet.

Deliberation

KMTL stated that google spreadsheet has been updated.

PowerGrid informed that it has been partially updated, to be updated completely shortly.

Forum exhorted the utilities who have not yet updated the sheet to update at the earliest.

B.19 Status Update on Parameter standardization of Disturbance Recorder (DR):

The parameter standardization of Disturbance Recorder (DR) was approved during the 59th PCCM (B.30 Standardization of Disturbance Recorder (DR) Channels). Subsequently, it has been incorporated into the Protection Protocol of the North Eastern Region by NERPC (62nd PCCM 20th December 2023). As per the Uniform Protection Protocol, DR parameters are to be standardized in line with the recommendations of the FOLD working group-3.

NERLDC has prepared a google sheet with substation wise and feeder wise details of each state for maintaining a database of DR parameter standardization.

[https://docs.google.com/spreadsheets/d/1ddce-tJov-](https://docs.google.com/spreadsheets/d/1ddce-tJov-G_EUCx_ansmfo1W3VN0F5yLec8SyT3l3U/edit?gid=1889122402#gid=1889122402)

[G_EUCx_ansmfo1W3VN0F5yLec8SyT3l3U/edit?gid=1889122402#gid=1889122402](https://docs.google.com/spreadsheets/d/1ddce-tJov-G_EUCx_ansmfo1W3VN0F5yLec8SyT3l3U/edit?gid=1889122402#gid=1889122402)

Status as on 13.05.2025:

Sl. No.	Name of Utilities	DR parameter standardization	Remarks
1	KMTL	Not updated	
2	NETC	Not updated	
3	NEEPCO	Not updated	
4	NHPC	Not updated	
5	NTPC	Standardized	
6	OTPC	Not updated	
7	POWERGRID	Standardized	
8	IndiGrid	Not updated	
9	NBTL	Nangalbibra ICT-I&II not standardized	
10	MUML	Standardized	
11	DoP Arunachal Pradesh	Not updated	
12	TSECL	Not updated	
13	TPGCL	Not updated	
14	DoP Nagaland	Not updated	
15	MePTCL	Partially completed	
16	MePGCL	Partially completed	
17	MSPCL	Yet to be standardized	
18	P&ED Mizoram	Standardized (limited to available facility)	
19	AEGCL	Not updated	
20	APGCL	Not updated	

All utilities are requested to update status of DR standardization as per recommendation in FOLD working group-3.

Deliberation

NBTL informed that Old relay at ICT-I & II at Nangalbibra which does not have option for DR standardization. The same will be replaced.

Forum strongly urged all utilities to update the google spreadsheet.

B.20 Relay Setting Database for 66 kV and Above Substations:

Maintaining a comprehensive relay setting database is essential for effective protection analysis and ensuring accurate coordination of the protection system. A well-maintained database benefits all stakeholders by enhancing the accuracy and reliability of these records. All utilities are requested to share the substation-wise relay setting status on the PDMS portal of NERPC in comparison with the actual settings implemented at site.

NERLDC has prepared a google spreadsheet containing substations of each state.

https://docs.google.com/spreadsheets/d/1TcBdI5acaD_yXrGzXbM6VYRirhU3j2utSy1IChN1HwU/edit?gid=0#gid=0

Status as on 13.05.2025:

Sl. No.	Name of Utilities	Relay setting details	Remarks
1	KMTL	Not updated	
2	NEEPCO	Partially updated	
3	NHPC	Not updated	
4	NTPC	Updated	
5	OTPC	Not updated	
6	POWERGRID	Partially updated	
7	IndiGrid	Not updated	
8	NBTL	Not updated	
9	DoP Arunachal Pradesh	Not updated	
10	TSECL	Partially updated	
11	TPGCL	Not updated	
12	DoP Nagaland	Updated	
13	MePTCL	Updated	
14	MePGCL	Updated	

15	MSPCL	Partially updated	
16	P&ED Mizoram	Updated	
17	AEGCL	Not updated	
18	APGCL	Not updated	

All utilities are requested to review and update relay settings in the google spreadsheet.

Deliberation

Forum strongly urged all utilities to update the google spreadsheet at the earliest.

B.21 Insulator details pertaining to the important transmission lines of NER Power System:

Due to the upcoming monsoon season, it is of upmost importance to ensure healthiness of insulators pertaining to the important transmission lines of NER Power System.

In view of this, NERLDC has prepared a Google spreadsheet detailing the list of Important transmission lines in NER, tabulated by voltage level.

https://docs.google.com/spreadsheets/d/1e01XwENPs9axtT-XlNpEOTEjM6x9-vwpq6-AoJBWH_E/edit?usp=sharing

All the utilities are requested to furnish the insulator type along with date of installation.

Deliberation

Forum strongly urged all utilities to update the google spreadsheet at the earliest.

B.22 Mapping of SPS in the SCADA Display for real time monitoring of all SPS:

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)	

Display of SPS SCADA Mapping

09-May-2025 16:02:43 SPS STATUS & OPERATION			
STATION	SPS	SPS ON/OFF	SPS OPTD.
BGTPP_NTPC	BGTPP U-3	ON	NRML
PALATANA_OTPC	SPS-2 Bangladesh	ON	NRML
	SPS-4 Bangladesh	ON	NRML
	SPS -2 HSR	OFF	NRML
	SPS -3 HSR	OFF	NRML
ZIRO_PG	ZIRO SPS	ON	NRML
SARUSAJAI_AS	SARUSAJAI SPS	OFF	NRML
IMPHAL_PG	IMPHAL SPS	ON	NRML
SM NAGAR (ST)	SM NAGAR B/R -1 SPS	ON	NRML
SM NAGAR (ST)	SM NAGAR B/R -2 SPS	ON	NRML
PK BARI (ST)	PK BARI B/R -1 SPS	ON	NRML
PK BARI (ST)	PK BARI B/R -2 SPS	ON	NRML
TINSUKIA (AS)	TINSUKIA SPS	ON	NRML
BONGA_AS	SPS Stage -1	ON	NRML
	SPS Stage -2		NRML
MONARCHAK	MONARCHAK	ON	NRML

Sl. No.	SPS under operation	Long term measures	SPS mapping status in SCADA (YES/No) as
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			per 78th PCCM
1	<u>Related to Generation evacuation from Monarchak(NEEPCO) Power Plant</u> - Tripping of STG at Monarchak under outage of any one circuit of 132 kV Monarchak – Rokhia line & 132 kV Monarchak-Udaipur	Commissioning of 132 kV Monarchak-Surajmaninagar line	Mapping done till RLDC during April'25
2	<u>SPS related to outage of 220 Misa-Samaguri DC:</u> On tripping of 220 kV Misa-Samaguri DC: Load reduction of 50-60 MW at Samaguri area	Commissioning of 400 kV Sonapur Substation. LILO of 400 kV Bongaigaon-Byrnihat Line at Sonapur.	RTU issue. By May'25
3	Related to outage of any one circuit of 220 kV Balipara - Sonabil D/C	Reconductoring of 220 kV Balipara-Sonabil D/C lines with higher ampacity and Utilisation of 2 X 160 MVA ICTs at Balipara	RTU issue. By May'25
4	Related to the outage of any one circuit of the 132 KV Khliehriat (PG)- Khliehriat D/C line	Reconductoring of 132 KV Khliehriat (PG)-Khliehriat D/C line	Done as informed by Meghalaya during 78th PCCM. Latest status at NERLDC: Yet to be done.

5	Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C	Reconductoring of 132 kV Khliehriat – Leshka D/C	Done as informed by Meghalaya during 78th PCCM. Latest status at NERLDC : Yet to be done.
6	Related to 132kV SM Nagar(ISTS) - SM Nagar line to prevent Overloading	i) Commissioning of 132kV Monarchak - SM Nagar D/C ii) HTLS Reconductoring of 132kV SM Nagar(ISTS) - SM Nagar, 132kV SM Nagar(ISTS) - Budhjungnanagar, 132kV PK Bari(ISTS) - Ambasa and 132kV PK Bari(ISTS) - PK Bari	Done as informed by TPTL during 78th PCCM. Latest status at NERLDC: As per NERLDC SCADA team, data point yet to be mapped first at SLDC then RLDC.

Deliberation

Sl. No.	SPS under operation	Long term measures	SPS mapping status in SCADA (YES/No) as per 78th PCCM
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1	<u>Related to Generation evacuation from Monarchak(NEEPCO) Power Plant</u> - Tripping of STG at Monarchak under outage of any one circuit of 132 kV Monarchak – Rokhia line & 132 kV Monarchak-Udaipur	Commissioning of 132 kV Monarchak-Surajmaninagar line	Done on April'25
2	<u>SPS related to outage of 220 Misa-Samaguri DC:</u> On tripping of 220 kV Misa-Samaguri DC: Load reduction of 50-60 MW at Samaguri area	Commissioning of 400 kV Sonapur Substation. LILO of 400 kV Bongaigaon-Byrnihat Line at Sonapur.	By June'25
3	Related to outage of any one circuit of 220 kV Balipara - Sonabil D/C	Reconductoring of 220 kV Balipara-Sonabil D/C lines with higher ampacity and Utilisation of 2 X 160 MVA ICTs at Balipara	By June'25
4	Related to the outage of any one circuit of the 132 KV Khliehriat (PG)- Khliehriat D/C line	Reconductoring of 132 KV Khliehriat (PG)-Khliehriat D/C line	Done as per Meghalaya. Yet to be done as per NERLDC. Meghalaya to coordinate with NERLDC SCADA team.
5	Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C	Reconductoring of 132 kV Khliehriat – Leshka D/C	Done as per Meghalaya. Yet to be done as per NERLDC. Meghalaya to

			coordinate with NERLDC SCADA team.
6	Related to 132kV SM Nagar(ISTS) - SM Nagar line to prevent Overloading	i) Commissioning of 132kV Monarchak - SM Nagar D/C ii) HTLS Reconductoring of 132kV SM Nagar(ISTS) - SM Nagar, 132kV SM Nagar(ISTS) - Budhjungnagar, 132kV PK Bari(ISTS) - Ambasa and 132kV PK Bari(ISTS) - PK Bari	TSECL Absent

C. FOLLOW-UP AGENDA ITEMS

C.1 Submission of monthly and quarterly progress report by respondents of NERLDC's Petition:

As per the Direction of Hon'ble commission related to the Petition No 198/MP/2020, 259/MP/2020, 535/MP/2020, 539/MP/2020 and 540/MP/2020, respective respondents have to submit the **monthly/quarterly progress report** of the action plan prepared by the respective respondents in consultation with the Petitioner (i.e. NERLDC) to NERPC.

Order dated	Petition No	Respondent
08-Nov-2023	198/MP/2020	DoP, Arunachal Pradesh
	259/MP/2020	DoP, Nagaland
	539/MP/2020	MSPCL
27-Oct-2023	535/MP/2020	TPTL/TSECL
	540/MP/2020	P&ED, Mizoram

In 63rd PCCM, MS, NERPC stated that Hon'ble CERC (in above mentioned Petition) has directed the following:

NERPC shall monitor the work of the implementation of the Protection system by the Department of Power, Arunachal Pradesh; Department of Power, Nagaland, MSPCL, TPTL/TSECL, P&ED, Mizoram and shall submit a quarterly progress report to the Commission till the establishment of the Protection system at the substations identified by the NERLDC.

NERPC shall validate relay settings and conduct the Protection Audit of the associated transmission system at the substation and transmission lines, as and when required. Any issue faced during the implementation of Protection system or observed during the protection audit shall be discussed in the Protection Sub-Committee meeting at the RPC forum and sorted out. Concerned Power department /State shall identify one person from their top management as a nodal officer, who shall submit a monthly progress report on the implementation of the protection

system to the NERPC and NERLDC, till the establishment of the Protection system at the substations identified by the NERLDC.

In this regard, Member Secretary stated that the monthly progress reports will be monitored at PCC forum. He requested the States to send monthly progress report and action plan accordingly.

In 78th PCCM, NERLDC informed that all the concerned states have provided the progress report till March'25. Further, NERPC stated that the quarterly report for Jan'25-March'25 quarter will be submitted to CERC shortly.

Deliberation

NERLDC informed that only Nagaland has not yet submitted the progress report of April. Forum urged Nagaland to submit the same at the earliest.

Further, NERPC stated that the quarterly report for Jan'25-March'25 quarter will be submitted to CERC next week.

C.2 Status on remedial measures actions on non-operation of auto recloser in Important Grid Elements for transient faults occurred in last few months:

Utilities updated in 79th PCCM as provided in the table below:

Sl No	Element Name	Tripping date and time	Relay End1	Relay End2	A/R not Operated	Remarks from Utility (79th PCCM)
1	132 kV Agartala - Surajmanina gar 2 Line	17-11- 2023 15:10	DP,ZI,Y- B,FD:5.81 km, AR successfu l	DP,ZI,R- Y,FD:11.98 KM	Surajman inagar	Tripura absent
2	132 kV Dimapur - Doyang 2	29-03- 2024 13:10	DP, Z1, R- Y, FD: 72.6km	DP, Z1, R- Y	Doyang	CB procurement underway. By May'25

3	132 kV Aizawl - Tipaimukh Line	02-11-2024 10:22	DP, ZII,Y-E, FD: 32.4 KM, Carrier received after CB opening , No Carrier aided tripping	LLG fault. IL1 1.06kA IL2 0.88 kA FD: 63.3 km (A/R Successfu l)	Aizawl(PG CIL)	Carrier signal issue at Tipaimukh end. MSPCL to check the time delay settings for sending carrier at Tipaimukh. MSPCL updated that issue could not be resolved due to law & Order issue in the state
4	220 kV Behiating - Tinsukia 1 Line	02-11-2024 10:32	DP, ZI, B-E, 1.1 kA	DP, ZI, B-E	Both ends	AEGCL updated that matter has been raised to NERPSIP. Matter to be taken up in NERSIP review meeting
5	132 kV Panchgram - Lumshnong Line	04-11-2024 12:50	DP, ZI, Y-E, FD: 12.5km, 3.2kA	DP, ZI, Y-E, FD: 39.9 km	Both Ends	AR in disabled mode at both ends. To be enabled after CT replacement at Lumshnonng

						end by MePTCL.
6	132 kV Bokajan - Dimapur Line	10-11- 2024 13:08	DP, ZI, Y- E, FD: 20.3 kms	DP, ZI, Y- E, FD: 8.4 KM, AR Successful	Bokajan (AEGCL)	Issues with pneumatic breakers at Bokajan end. New CBs in transit, to reach the site by end of June'25. After that 1 week required for installing the CBs.
7	132 kV Daporijo - Ziro Line	13-01- 2025 15:00:00	DP, ZI, B- E, AR Not Operated	DP, ZI, B- E, FD: 67.724K ms, A/R Operated Successfully	Daporijo (DoP AP)	Relay logic issues, will be checked. Issue with pneumatic CBs. Procurement of new CBs underway.
8	132 kV AGTCCPP - Kumarghat Line	16-03- 2025 20:32:00	DP, ZI, B- E, FD: 22.08 Kms, A/R Not Operated	DP, ZI, B- E, FD: 76.656 Kms, A/R Operated Successfully	AGTCCPP (NEEPCO)	End to end testing will be done in coordination with NERTS to resolve the AR issue at AGTCCPP. Requested

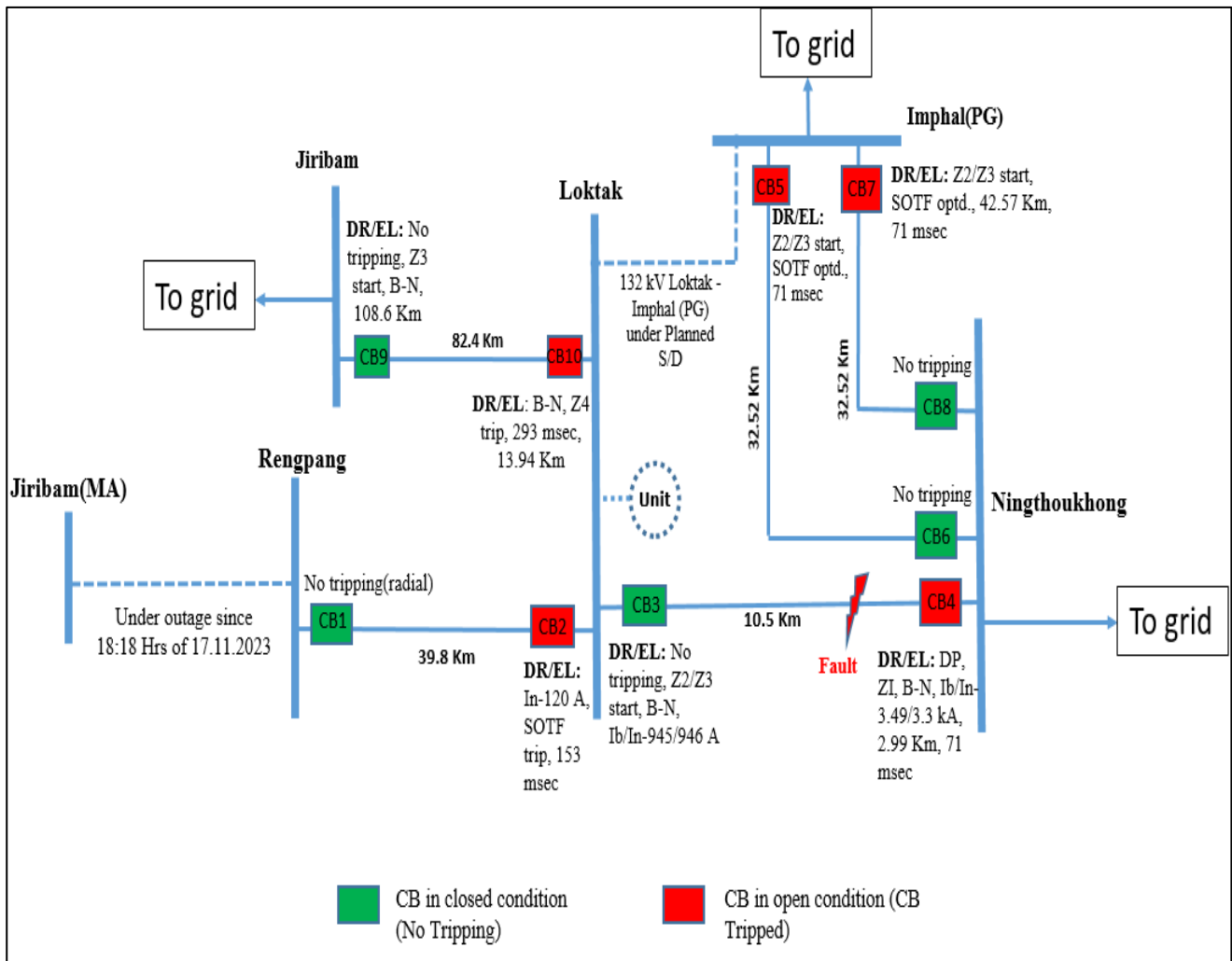
						NERTS to extend support in the matter.
9	132 kV Basar-Daporijo Line	19-03-2025 08:44:00	DP, ZI, R-Y, FD: 33.15 km, A/R Not Operated	DP, ZI, R-Y, A/R Operated Successfully	Basar (DoP, Arunachal Pradesh)	Multiphase AR logic implemented at Basar but not working. Basar SS is not handed over to DoP. Issue to be resolved jointly by DoP, AP And NER Comprehensive team of Powergrid.

Sub-committee noted as above

C.3 Grid Disturbance in Loktak HEP of NHPC & Rengpang area of Manipur Power system on 24-03-2025

Loktak HEP of NHPC and Rengpang area of Manipur power system were connected with rest of NER grid through 132 kV Loktak-Jiribam, 132 kV Loktak-Imphal(PG), 132 kV Loktak-Ningthoukhong and 132 kV Loktak-Rengpang lines. Prior to the event, 132 kV Loktak-Imphal(PG) line was under planned shutdown and all units of Loktak were withdrawn as per schedule. Also, 132 kV Jiribam(MA)-Rengpang line was under outage since 17-11-2023.

At 11:38 Hrs of 24.03.2025, 132 kV Loktak-Jiribam, 132 kV Loktak-Ningthoukhong and 132 kV Loktak-Rengpang lines tripped resulting in blackout of Loktak HEP & Rengpang. Load loss of 1 MW occurred.



As per DR analysis, resistive B-N fault (Ib-3.49 kA, In-3.3 kA) in 132 kV Loktak-Ningthoukhong line at a distance of 2.99 Km initiated at 11:38:07.129 Hrs which was cleared within 71 msec from Ningthoukhong end on operation of DP, ZI. ZII started at Loktak end (no tripping) and fault current disappeared within 293 msec. 132 kV Loktak-Jiribam line tripped from Loktak end on Z4 within 293 msec (FD: 13.94 Km). Z3 start from Jiribam end and no tripping.

132 kV Imphal(PG)-Ningthoukhong II & III lines tripped on SOTF within 71 msec (Z2/Z3 started and FD: 42.57 Km).

Suspected fault is in 132 kV Loktak-Ningthoukhong line. Tripping of 132 kV Loktak-Jiribam line at Loktak end prior to CB opening at Loktak for 132 kV Ningthoukhong line led to blackout in Loktak HEP and Rengpang S/S.

Following observations:

- Tripping of 132 kV Loktak-Jiribam line on Z4 from Loktak within 293 msec seems misoperation. Z4 time delay setting needs to be reviewed and set as per NER protection philosophy.

- Tripping of 132 kV Imphal (PG)-Ningthoukhong II & III lines on SOTF operated from Imphal (PG) for fault beyond the line is inferred unwanted.
- 132 kV Loktak-Rengpang line tripped on SOTF within 153 msec. The same needs to be checked by NHPC.
- Time drift of 7 min observed at Ningthoukhong end for 132 kV Loktak-Ningthoukhong line which need to be sync with GPS.
- Non-submission of flash report and detailed report by NHPC & MSPCL which is a violation of Clause 37.2 (b) & 37.2 (e) of IEGC regulation 2023.

NHPC & MSPCL may update the actions taken on the above-mentioned issues.

Deliberation of the 78th PCC

PowerGrid informed, regarding tripping of Imhpal-Ningthoukhong lines on SOTF, that there was some configuration issue and same has been rectified.

NHPC informed that there is no LBB protection at Loktak S/S and Z4 time delay was kept at 200-250 msec at Loktak for 132 kV Jiribam Line.

Forum directed NHPC to –

1. Implement PLCC and Line differential protection on the Loktak Ningthoukhong (10.5 Km) line
2. Review and rectify the Z4 timing and reach at Loktak end for the Jiribam line
3. Rectify the SOTF issue at Loktak end for Rengpang line.

Submit detailed report of the grid event at Loktak

NHPC may update

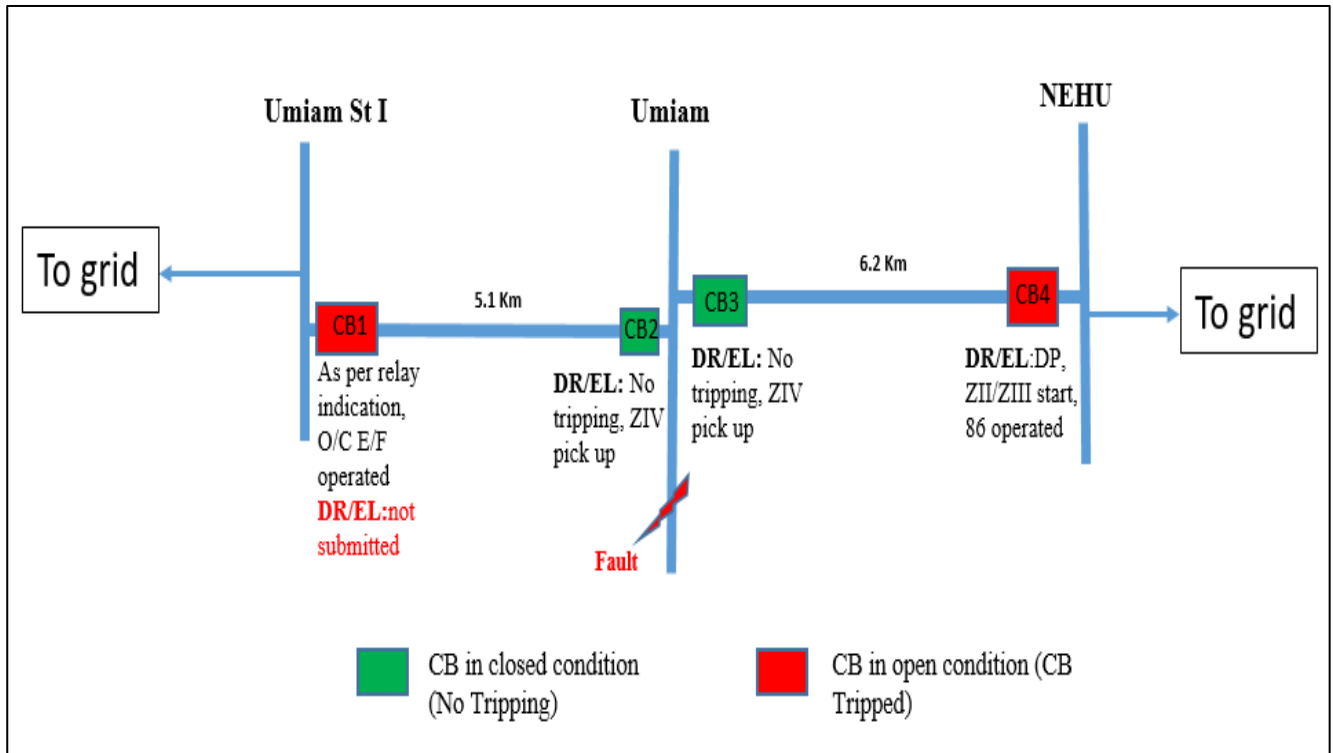
Deliberation

NHPC updated as follow –

1. Implement PLCC and Line differential protection on the Loktak Ningthoukhong (10.5 Km) line – Going to purchase PLCC or may be DTPC. LDR matter has been escalated to higher authority.
2. Review and rectify the Z4 timing and reach at Loktak end for the Jiribam line – to be done within a week
3. Rectify the SOTF issue at Loktak end for Rengpang line. – to be done within a week

C.4 Grid disturbance in 132 kV Umiam S/S of Meghalaya Power system on 01-04-2025:

At 01:55 Hrs of 01-04-2025, 132 kV Umiam-Umiam Stg I and 132 kV NEHU-Umiam Lines tripped resulting in blackout of 132 kV Umiam S/S of Meghalaya Power system.



As per DR analysis, R-N fault (Ir-3.1 kA, In-2.9 kA) initiated at 01:55:31.117 Hrs which was cleared within 121 msec from NEHU end. ZII/ZIII start and 86 operated at 01:55:31.202 Hrs. Z4 pickup at Umiam end (no tripping).

For 132 kV Umiam St I-Umiam line, Z4 started at Umiam end and fault current disappears after 255 msec. FIR/DR/EL of Umiam Stg I end not submitted by MePGCL.

Z4 pickup at Umiam end for tripping of 132 kV NEHU-Umiam and 132 kV Umiam-Umiam St I line indicates that fault is in 132 kV Umiam Switchyard.

As per FIR, R-phase CT blast at 132 kV Umiam S/S.

Following observations:

- It is not clear which protection system operated at NEHU end for 132 kV Umiam line and cleared the fault.
- FIR/DR/EL at Umiam St I end for 132 kV Umiam St I-Umiam Line not submitted by MePGCL which is a violation of Clause 37.2 (c) of IEGC-23.
- Time drift of 1 Hour observed at Umiam end for 132 kV Umiam St I Line.
- Flash report and detailed report not submitted by MePTCL Clause 37.2 (b) & 37.2 (e) of IEGC regulation 2023.

MePTCL/MePGCL is requested to provide update on the above-mentioned issues

Deliberation of the 78th PCC

MePGCL updated that fault occurred at Umiam substations due to blasting of R-phase CT blast at 132 kV Umiam S/S for 132 kV Umiam – NEHU line. The same line tripped on LDP protection at NEHU end & CB opening delayed at Umiam end. However, 132 kV Umiam St-I – Umiam Line tripped early from Umiam Stg-I.

MePTCL informed that unwanted tripped occurred at Umiam St I due to OC Highset enabled resulted into early clearance from Umiam St I.

Further, he informed that there is no distance protection at the Umiam stg I end for the Umiam line and also there are no LDP for the lines due to non-availability of the OPGW links.

Forum suggested MePGCL that High set to be disabled at Umiam St I.

Forum requested MePGCL to install the Distance protection at Umiam stg I at the earliest and install OPGW on the lines and enable the LDP.

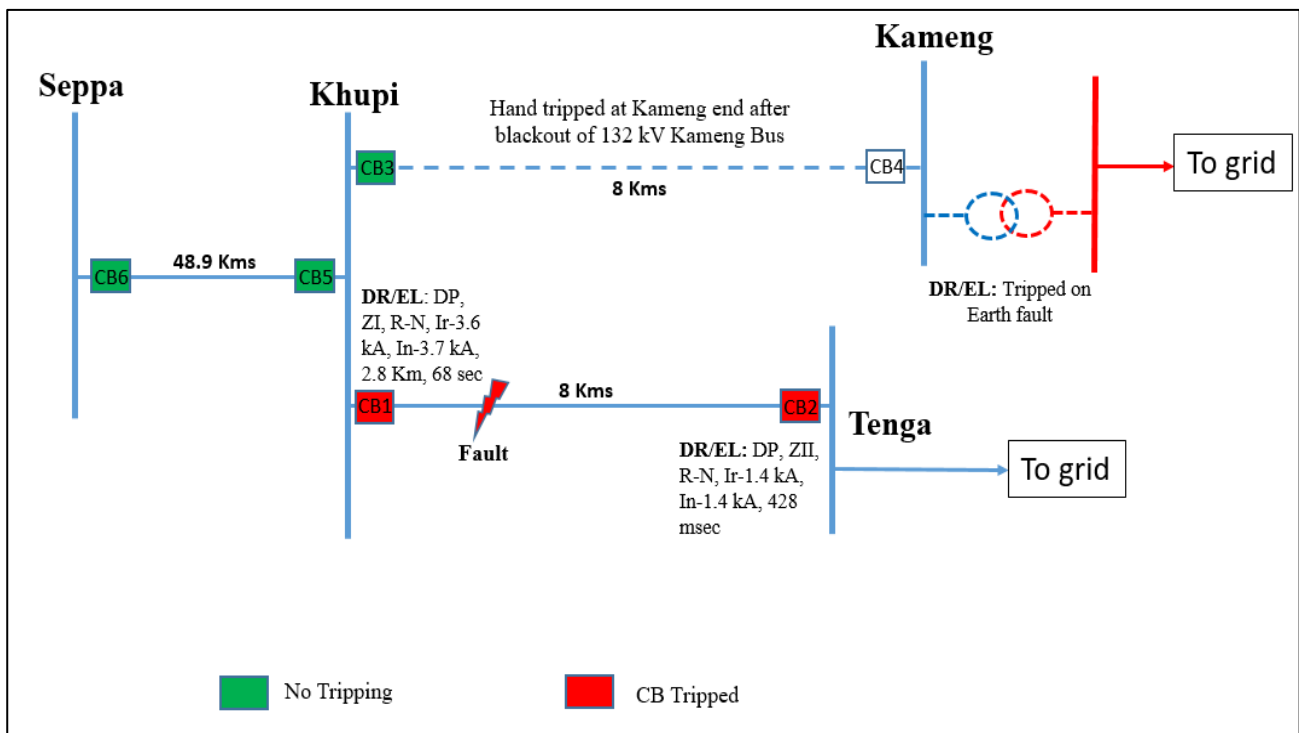
Deliberation

MePGCL updated as follow –

1. Distance protection on the line- to be enabled by June'25.
2. OPGW on the line – DPR sent to PSDF last year, under discussion in TESSG. TESSG raised some query which is being replied to.
3. MePGCL informed that High set will be disabled at Umiam St I by June'25.

C.5 Grid Disturbance in 132 kV Kameng S/S of NEEPCO and Khupi and Seppa areas of Arunachal Pradesh Power System on 23-03-2025:

132 kV Kameng S/S of NEEPCO and Khupi and Seppa areas of Arunachal Pradesh Power System were connected with rest of NER Grid through 132 kV Tenga-Khupi line and 132 kV Kameng-Khupi line and 400/132 kV ICT at Kameng. At 18:18 Hrs of 23.03.2025, 400/132 kV ICT at Kameng and 132 kV Tenga-Khupi line tripped. Due to these trippings, 132 kV Kameng S/S, Khupi and Seppa areas resulting in grid disturbance at 132 kV Kameng S/S of NEEPCO and Khupi & Seppa areas of Arunachal Pradesh got isolated from NER Grid and collapsed due to no source available in these areas. Load loss of 3 MW occurred.



As per DR analysis, R-N fault (Ir-3.6 kA, In-3.7 kA) in 132 kV Tenga-Khupi line at a distance of 2.8 Km from Khupi initiated at 18:18:13.361 Hrs and cleared within 68 msec from Khupi end on operation of DP, ZI. Fault cleared within 428 msec from Tenga end on ZII. At 18:18:14.141 Hrs, Kameng ICT tripped on E/F which seems to be unwanted.

Following observations:

- Tripping of 400/132 kV ICT at Kameng on Earth fault Stg-1 before fault could be cleared from Khupi end of 132 kV Tenga - Khupi Line is inferred misoperation. Root cause of unwanted tripping of 400/132 kV ICT at Kameng needs to be intimated.
- The back-up protection settings at Kameng, Khupi and Tenga needs to be reviewed and coordinated as per NER protection philosophy.
- DR analog and digital channel of Kameng ICT needs to be standardized as per recommendations in FOLD working group.
- SOE not recorded for tripping of 132 kV Tenga-Khupi line at 18:18 Hrs. The same needs attention from DoP Arunachal Pradesh/SLDC Arunachal Pradesh.
 - Non-submission of flash report and detailed report by DoP Arunachal Pradesh & NEEPCO which is a violation of Clause 37.2 (b) & 37.2 (e) of IEGC regulation 2023

Similar incident occurred at 15:25 Hrs of 13-02-2025.

DoP Arunachal Pradesh and NEEPCO may update the actions taken on the above-mentioned issues.

As per 78th PCC minutes, NEEPCO updated, regarding tripping of ICT at Kameng, that a tree branch fell on the ICT during the inclement weather. NERPC raised concern that tripping is related to Fault in the Khuppi-Tenga line and there may be issue with the B/U protection settings of the ICT. Forum opined that B/U protection coordination is required and requested NERPC secretariat to resolve the coordination issue through a special meeting with NERLDC, NEEPCO, PowerGrid and Arunachal Pradesh

Deliberation

NERPC stated that the meeting will be held shortly to resolve the matter.

C.6 Status on resolution of protection issues as discussed in 78th and 77th PCCM

SN	Protection issues to be resolved as decided in 77th and 76th PCCM	Concerned Utility	Previous status	Latest status (79th PCCM)
1.	LDP on Rokhia-N.Rokhia link	TSECL	RoW issue resolved. Work to be completed by next PCC	Tripura absent
2.	BB protection stability test at Doyang	NEEPCO	Price offer awaited from ABB. ABB persons will come in end of May'25	Hitachi provide the offer ,but there is issue with terms of payment, will be resolved by end of May'25
3.	Modification of SPS Scheme related to the outage of 132 kV Leshka -Khliehriat D/C after LILO at 132 kV Mynkre S/S	MePTCL	Matter has been taken up with NERPSIP. Also, Protection coupler is not present there, in talk with ABB	Same status

4.	Grid Disturbance in Tuirial S/S of NEEPCO & Kolasib and Bairabi areas of Mizoram Power System on 20-03-2025: Protection system of 132 kV Kolasib-Tuirial line failed to isolate the fault. P&ED Mizoram needs to ensure healthiness of protection system of 132 kV Kolasib-Tuirial line.	Mizoram	Mizoram to conduct relay testing for checking the healthiness for 132 kV Kolasib – Tuirial and 132 kV Kolasib – Bairabi line.	Will look into the matter this month
5.	Grid Disturbance in Mawlyndep area of Meghalaya Power system on 23-03-2025: “Carrier send” signal high at Mawlyndep end. However, 132 kV Mustem-Mawlyndep line tripped after ZII time delay. The same needs to be checked by MePTCL.	MePTCL	NERLDC highlighted in 78 th PCCM that there was no carrier aided tripping at Mustem despite carrier received from Mawlyndep end. Forum directed MePTCL to look into and resolve the matter at the earliest and install GPS.	Protection coupler at Mustem is defective due to which carrier aided tripping did not occur at Mustem. MePTCL informed that communication team is trying to replace the defective coupler.

				However, no spare is available. Spare protection coupler of other substations to be used.
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Sub-committee noted as above

C.7 Installation of line differential protection for short lines:

As per sub-regulation 3 of Regulation 48 of Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022-

"For short line (less than 10 km) or cable or combination of overhead line and cable, line differential protection shall be used with built-in backup distance protection."

As per discussion in 61st PCC meeting the status for different STUs/ISTS licensees are as follows:

Status as updated in 78th PCCM –

Name of utility	Last updated status (77th/76rd/75nd PCCM)	Status as per 78th PCCM
AEGCL	AEGCL updated that PSDF monitoring group has suspended funding for LDP for 1 year. AEGCL requested MS, NERPC to take up with NPC, CEA to provide funding for the same considering the special case of NER. MS, NERPC stated that funding for the LDP considering the special case of NER has been taken up as resolution by RPC forum	Under discussion in TESSG, TESSG asked for some inputs, replied to.

MSPCL	DPR under preparation, to be submitted within one month.	DPR to be revised. State funding being explored.
MePTCL	LDP operation for 9 feeders. For Neighrims-NEHU line, waiting for dark fiber. For other lines, OPGW not available commissioned after OPGW link is established. 7 Feeder operational for rest OPGW work is pending OPGW to be installed on 16 lines. LDP will be enabled after that.	Discussed in last TESC meeting, some queries raised, being replied to. For NEHU-NEighrims line, NERPSIP informed the forum that fiber for this line is not under the scope of NERPSIP. Therefore, forum suggested MePTCL to cover this in any other scheme.
P&ED Mizoram	Lines identified 132kV Khamzawl - Khawiva. Mizoram stated that DPR in final stage. Price offer has been received from one vendor and awaited form other vendors. The DPR would be prepared by end of Sept.'24.	DPR prepared and planning to do under SASCI (Special Assistance to States Capital investment. Process underway
TSECL	132kV 79 Tilla-Budhjungnagar. DPR to be prepared. Cost estimate submitted to TIDC to arrange for ADB funding. TIDC approval is still waited for fund. Approved for ADB funding. E-tendering underway. Regarding Rokhia-N.Rokhia link, he updated that the breaker has been received.	Tripura absent

	MS, NERPC suggested to apply under PSDF	
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Sub-committee noted as above

Annexure-I**List of Participants in the 79th PCC Meeting held on 19.05.2025**

SN	Name & Designation	Organization	Contact No.
1	Sh. Moli Kamki, AE (E)	Ar. Pradesh	09863703539
2	Sh. Nishanta Baruah, Dy.Mgr (MRT), AEGCL	Assam	08475036988
3	Sh. Juganta Sonowar, Dy.Mgr (MRT), AEGCL,	Assam	09957710783
4	Sh. Lukran Kamei, Mgr, MSPCL	Manipur	07085597555
5	Sh. C.Chawngzikpuia, SDO (MRT)	Mizoram	08974770712
6	Sh. Samuel Lalhriatzuala, SDO (Power Store)	Mizoram	08729982857
7	Sh. Vipin Kumar Azad, AE, SLDC	Mizoram	07085205665
8	Sh. Kitbok Syrti, EE (SP Division), MePTCL	Meghalaya	08974595356
9	Sh. A.Shullai, AEE, GSPSD, MePGCL	Meghalaya	07005379616
10	Sh. A.G.Tham, AEE, MRT, MePTCL	Meghalaya	09774664034
11	Sh. Alex E.Ngullie, JE, SLDC	Nagaland	08837080321
	-	Tripura	-
12	Sh. Neeraj Kumar, GM	NERLDC	09910907949
13	Sh. Subhra Ghosh, Asst.Mgr	NERLDC	08415857079
14	Sh. Manash Jyoti Baishya, Ch.Manager	PGCIL	09435555740
15	Smti. M.Talukdar, GM	NEEPCO	09435339690
16	Sh. Manas Pratim Sharma, Sr.Mgr	NEEPCO	08729901871
17	Sh. Sanjib Pal, Section Head-PME	OTPC	09436583737
18	Sh. C.L.Khayuingam, Gr.Sr.Mgr (E)	NHPC	07085916006
19	Sh.Mahesh Bhagat, Mgr (O&M)	STERLITE	09206682124
20	Sh. Suneel Kumar Patel, Engineer (CCR)	STERLITE	09109467509
	-	NTPC	-
21	Sh.Basab Maity, Engineer	PRDC	09732416233
22	Sh. Manoj Kumar Gupta, DGM(Trans.)	KMTL	09996789264
23	Sh. K.B.Jagtap, Member Secretary	NERPC	-
24	Smti Maya Kumari, Dy.Director	NERPC	09024334279
25	Sh. Vikash Shankar, Asst.Director	NERPC	09455331756