



### भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power उत्तर पूर्वी क्षेत्रीय विद्युत समिति North Eastern Regional Power Committee

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एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006, Meghalaya

No.: No. NERPC/SE (O)/PCC/2025/536-577 May 05, 2025

#### To <u>As per list attached</u>

Sub: 78वीं संरक्षण समन्वय उप-समिति (पीसीसी) बैठक का कार्यवृत्त/ Minutes of 78th Protection Coordination Sub-Committee (PCC) Meeting

महोदय/महोदया,

कृपया 21 अप्रैल 2025 को शिलांग के एनईआरपीसी कॉन्फ्रेंस हॉल में आयोजित 78वीं पीसीसी बैठक के कार्यवृत्त को आपकी जानकारी और आवश्यक कार्रवाई के लिए प्राप्त करें। कार्यवृत्त NERPC की वेबसाइट: www.nerpc.gov.in पर भी उपलब्ध है।

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

Sir/Madam,

Please find enclosed herewith the minutes of the 78<sup>th</sup> PCC Meeting held at NERPC conference Hall, Shillong on 21<sup>st</sup> April 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,

(माया कमारी / Maya Kumari

(माया कुमारी / Maya Kumari) Dy. Director

Encl: As above

#### **Distribution List:**

- 1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati 781 001
- 2. Managing Director, APGCL, Bijuli Bhawan, Guwahati 781 001
- 3. Managing Director, APDCL, Bijuli Bhawan, Guwahati 781 001
- 4. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal 795 001
- 5. Managing Director, MSPDCL, Secure Office Bldg. Complex, South Block, Imphal 795 001
- 6. Director (Transmission), MePTCL, Lumjingshai, Short Round Road, Shillong 793 001
- 7. Director (Generation), MePGCL, Lumjingshai, Short Round Road, Shillong 793 001
- 8. Director (Distribution), MePDCL, Lumjingshai, Short Round Road, Shillong 793 001
- 9. Director (Tech.), TSECL, Banamalipur, Agartala -799 001.
- 10. Director (Generation), TPGCL, Banamalipur, Agartala -799 001.
- 11. GM (Transmission), TPTL, Banamalipur, Agartala -799 001.
- 12. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar-791111
- 13. Chief Engineer (TP&MZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar-791111
- 14. Chief Engineer (Commercial) -cum- CEI, DoP, Govt. of Arunachal Pradesh, Itanagar- 791111
- 15. Engineer-in-Chief, P&E Department, Govt. of Mizoram, Aizawl 796 001
- 16. Engineer-in-Chief, Department of Power, Govt. of Nagaland, Kohima 797 001
- 17. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
- 18. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
- 19. Group GM, NTPC, Bongaigoan Thermal Power Project, P.O. Salakati, Kokrajhar-783369
- 20. Vice President (Plant), OTPC, Badarghat Complex, Agartala, Tripura 799014
- 21. ED, PGCIL/NERTS, Dongtieh-Lower Nongrah, Lapalang, Shillong -793 006
- 22. AGM (BD), NVVN, Core 5, 3rd floor, Scope Complex, 7 Institutional Area, Lodhi Rd., N. Delhi-3
- 23. Vice President, PTCIL, 2nd Floor, NBCC Tower, 15, Bhikaji Cama Place, New Delhi 110066
- 24. Dy. COO, CTUIL, "Saudamini", 1st Floor, Plot No. 2, Sector-29, Gurugram, Haryana 122001
- 25. Chief Engineer, GM Division, Central Electricity Authority, New Delhi 110066
- 26. Chief Engineer, NPC Division, Central Electricity Authority, New Delhi 110066
- 27. Head & VP, (R&C), ENICL, IndiGrid, Windsor Building, Kalina, Santacruz (East), Mumbai- 98
- 28. ED, NERLDC, Dongtieh, Lower Nongrah, Lapalang, Shillong -793 006
- 29. CGM, AEGCL, Bijuli Bhawan, Guwahati 781001
- 30. CGM, APGCL, Bijuli Bhawan, Guwahati 781001
- 31. CGM, DISCOM, Bijuli Bhawan, Guwahati 781001
- 32. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar 791111
- 33. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
- 34. Head of SLDC, MSPCL, Imphal 795001
- 35. Head of SLDC, MePTCL, Lumjingshai, Short Round Road, Shillong 793 001
- 36. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl 796 001
- 37. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur 797103
- 38. Head of SLDC, TSECL, Agartala 799001
- 39. Chief Engineer (Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124
- 40. DGM (O&M), OTPC, Badarghat Complex, Agartala, Tripura 799014
- 41. AGM Regulatory & Commercial, NER II TL, 10th Floor, Berger Tower, Noida sector 16B-201301
- 42. Director, NETC, 2C, 3rdFloor, D21Corporate Park, DMRC Building Sector 21, Dwarka, Delhi-77.



(माया कुमारी / Maya Kumari) Dy. Director



# Minutes of 78<sup>th</sup> PCCM

Govt. of India

Ministry of Power

North Eastern Regional Power Committee

Shillong

### North Eastern Regional Power Committee

#### Minutes of

#### 78th Protection Coordination Sub-Committee Meeting

**Date:** 21/04/2025 (Monday)

**Time:** 11:00 hrs.

Venue: NERPC conference Hall, Shillong

The list of participants is attached as annexure I

#### A. CONFIRMATION OF MINUTES

### 1. <u>CONFIRMATION OF MINUTES OF THE 77<sup>th</sup> PROTECTION SUB-</u> COMMITTEE MEETING OF NERPC.

Minutes of the 77<sup>th</sup> PCC Meeting held on 24th March, 2025 at NERLDC Conference Hall, Guwahati was circulated vide letter No.: NERPC/SE (O)/PCC/2025/144-185 dated 1st April 2025.

No comments were received from the constituents

Sub-committee confirmed the minutes of the 77th 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—

Descript	tion	Constituent	Responsibility	Timeline
			Shall conduct internal	Annually
			audit of protection system	
	Internal	All users	Audit report to be shared	Within 30 days
	Audit	(132kV and	with RPC	of Audit
		above)	Action plan for rectification	Within 30 days
			of deficiencies to be shared	of Audit
			with RPC	
			Shall conduct audit for	Once in five
			each SS	years
			Shall conduct audit on	Within three
		All users	advice of RPC	months of
		(132kV and		advice of RPC
		above)	Audit report* to be	Within a
			submitted to RPC and	month of
Audit	Third		NERLDC/SLDC	submission of
	party			third-party
	Audit			audit report
			Action plan for rectification	Same as above
			of deficiencies	
		RPC	Compliance to audit	Not specified
			reports to be followed up	
			regularly	
		RPC	After analysis of any event,	Conditional
			shall identify substations	responsibility
			where audit is required to	
			be carried out	

Annual	All users	Annual audit plan to be	Annual
audit plan		submitted to RPC by <b>31</b> st	
		October	

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 3<sup>rd</sup> 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.

In 77th PCCM, following points were discussed -

Utilities updated as follow-

Sr	Utility/	Internal Audit		External audit	
No	Constituents				
		Latest Status	report	Latest Status	report

1.	Ar. Pradesh	No representative of A.P.	Report of Chimpu to be submitted by March'25	representative of A.P.  MS NERPC stated that that audit of Pashighat and Along substations may be conducted on 11-12 <sup>th</sup> April'25. Powergrid requested NERPC to conduct the nearby substations of Powergrid also. MS agreed.	NA
2.	Assam	Done for 61 SS for FY 2024-2025. For FY 2025-2026, audits to be done during July-Oct'25	submitted	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	Submitted	8 SS to be done, Schedule to be decided, subject to law and Order situation. Audit of Yurembam ss and Ningthounkong ss may be done by NERPC team in last week of April'25.	NA
4.	Meghalaya	Internal audit of 132kV Subtations completed	Reports shared	Audit of 6 SS (Killing, EPIP I, EPIP II, NEHU, Mawlai an Mawphlang) done.	Report shared

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		except for two		For other substations,	
		substations		seek offer from CBIP,	
		namely., IIM &		yet to receive offer.	
		Mustem Will be		3rd party audit of	
		completed		Lumshnong may be	
		shortly		done by NERPC by	
				first week of May'25.	
5.	Mizoram	Done for all SS	Report shared	List of external	NA
				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	
6.	Nagaland	Done for all SS	Report shared	Audit of 5 SS to be	NA
				done in April or	
				May'25 by NERPC.	
				For rest, to be	
				planned later.	
7.	Tripura	13 done, rest	Shared for 13	Requested NERPC to	NA
		by April'25.	SS. But, NERPC	conduct4 audit of	
		For 66kV SS -	informed that	critical substations	
		audit by	the report is	namely Agartala,	
		Mar'25.	incomplete as	SMnagar, PK Bari,	
			all the formats	Dharmanagar and	
			have not been	Udaipur. MS NERPC	
			provided.	stated that the audit	
			TSECL to	may be planned for	
			provide	May'25	
			complete	-	
			formats by		
			April'25		

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8.	Powergrid (NERTS)	21 done, one pending, to be completed within FY 2024-25	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	No representativ	re. MS stated that	a letter will be issued	by NERPC to
10	KMTL	them on the mat	ter		
11	MUML	No			
		representative			
1.0	111111111111111111111111111111111111111				
12	NEEPCO	Pare,	Shared for Pare and Turial and	To be planned.	Internal and
		Ranganadi Kopili and	AGBPP. Shared	Waiting for the list of agencies from NPC.	external audit of
		Turial done.	for Kameng. RC	Forum advised that	AGTCCPP
		Kathalguri	Nagar report	till the list is finalized	have been
		(AGBPP) also	will be shared	NEEPCO may	done and
		done.	shortly	consider reputed	reports
		RC Nagar and		auditing agencies	submitted.
		Kameng done.		(including CBIP and	External
		Monarch being		CPRI) for conducting	audit of
		done		the external audits. Finalization of agency	Kameng was done on
				is under process.	done on March'25.
				is dider process.	External
					audit report
					of
					Monarchak
					will be
					submitted
					shortly.

13.	OTPC	Done	Shared	Done	shared
	(Palatana)				
14.	NTPC	Done	shared	Done (by CPRI)	Complete
	(BgTPP)				Report
					shared.
15.	NHPC	By Mar'25	Internal audit	To be done after R&M	
	(Loktak)		will be done by	of the plant	
			April'25		
16.	APGCL	Utilities to update	te status		
17.	TPGCL				
18.	MEPGCL	Audit of	Submitted for st	External audits of all	
		Umiam stg I	I and stg II.	generating stations	
		and Stg II was	Internal audit of	were done in 2021.	
		done Nov'24,	Umiam Stg 3	For next cycle of	
		Stg III and stg	and 4 by	audit, planning being	
		IV to be done	April'25.	done.	
		by April'25			
19	Dikshi HEP	*	*	*	*
	(IPP)				

<sup>\*</sup>DoP Ar. Pradesh to intimate Dikshi HEP to provide status to NERPC

#### Further deliberations of 77th PCCM

Regarding formation of the protection expert group in NER for conducting the external audits, Assam updated that nominations will be sent this week. MS NERPC requested all the state utilities and CPSUs to send their nominations to NERPC within one week so that the audit committee may be formed within ten days.

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.

#### **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.

#### Status of Internal/External Audit (78th PCC):

Sr	Utility/	Interna	al Audit	External audit		
No	Constituents					
		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 Pashighat, Along and Roing substations may be conducted in the last week of April'25. Powergrid requested NERPC to conduct the nearby substations of	NA	
				Powergrid also.		
2.	Assam	For FY 2025-	Submitted for	Forum advised to	Submitted	
		2026, audits to	FY 2024-25	start identifying	for phase	
		start from		external agencies to	2017-2022.	
		May'25.		carry out the third-	External	

		(Total		party audit for next	audit of only
		Substation: 75)		phase of audit (2023-	
		,		2027). Forum	
				suggested to plan the	,
				audits in phase-wise	
				manner.	
3.	Manipur	Done for all SS	Submitted	8 SS to be done,	NA
	•	for FY 2024-25.		Schedule to be	
		Forum		decided, subject to	
		requested to		law and Order	
		plan for FY		situation. Audit of	
		2025-26.		Yurembam ss and	
				Ningthounkong ss	
		(Total		may be done by	
		Substation: 08)		NERPC team in	
				May'25	
4.	Meghalaya	Internal audit	Reports shared	Audit of 6 SS (Killing,	Report
		of 132kV		EPIP I, EPIP II, NEHU,	shared
		Subtations		Mawlai an	
		completed		Mawphlang) done.	
		except for two		For other	
		substations		substations, seek	
		namely., IIM &		offer from CBIP, yet to	
		Mustem also		receive offer. 3rd	
		done.		party audit of	
		(Total		Lumshnong may be	
		Substation: 22)		done by NERPC in	
				May'25.	
5.	Mizoram	Done for all SS	Report shared	List of external	NA
		(Total		agencies awaited.	
		Substation: 10)		Searching for parties	
				to conduct audit.	
				Audit of Kolasib,	
				Aizawl, Melriat (PG),	
				Zuangtui and	
				Luangmual may be	

				done in May'25 by NERPC	
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
8.	Powergrid (NERTS)	13 out of 18 done, rest by April'25. For 66kV SS - audit by Mar'25. (Total Substation: 18)	informed that the report is	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  External audit done for Misa & Salakati s/s by NERPC.  For 2 substations, audit is being	NA
9.	NTL	Audit done	To be shared	planned to be done by government agencies like CBIP and CPRI.  Matter is under process.  To be done later this	
			soon	year (2025)	
10	KMTL	No representative regarding non-co		d NERLDC to send a le	etter to CERC
11	MUML/NBTL	No representative	Internal Audit done		

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12	NEEPCO (Total Substation: 10)	All done	Shared for Pare and Turial and AGBPP. Shared for Kameng. RC Nagar report will be shared shortly	, , , , , , , , , , , , , , , , , , , ,	
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 TPGCL	Utilities to updat	te status		
18	MEPGCL	and Stg II was done Nov'24, Stg III and stg IV to be done by April'25	I and stg II. Internal audit of Umiam Stg 3 and 4 by April'25.	done.	
19	Dikshi HEP (IPP)	*	*	*	*

 $<sup>^*</sup>DoP\ Ar.\ Pradesh\ have\ intimated\ Dikshi\ HEP\ to\ provide\ status\ to\ NERPC$ 

# B.2 Analysis and Discussion on Grid Disturbances which occurred in NER grid in March'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-	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

<sup>^</sup>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 March 2025 based on the draft report prepared by NERLDC.

#### Deliberation of the sub-committee

NERLDC apprised that 11 GDs have occurred in the month of March'25 and the same have been put up in further agenda items in this PCC meeting

#### NERLDC Agenda

# B.3 Status of submission of FIR, DR & EL outputs for the Grid Events for the month of March'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 01-03- 2025 to 31-03-2025 as on **11-04-2025** is given below:

	Total No	FIR			DR			EL		
Owner Name	of FIR/DR/EL/ TR to be submitted( SEND+REN		Total Furnished after 24hrs %	Total furnishe d %	Total Furnished in 24hrs %	Total Furnished after 24hrs %	Total furnished %	Total Furnished in 24hrs %	Total Furnished after 24hrs %	Total furnished %
AEGCL	25	0%	52%	52%	0%	56%	56%	0%	56%	56%
DoP, Arunachal Pradesh	18	67%	22%	89%	22%	66%	88%	28%	56%	83%
DoP, Nagaland	8	38%	50%	88%	63%	25%	88%	50%	38%	88%
KMTL	4	100%	0%	100%	0%	0% (Only .cfg file submitted)	0%	0%	100%	100%
MePGCL	2	0%	100%	100%	50%	50%	100%	100%	0%	100%
MePTCL	6	83%	17%	100%	0%	100%	100%	0%	100%	100%
MSPCL	23	17%	65%	83%	48%	13%	61%	30%	35%	65%
NEEPCO	26	50%	38%	88%	27%	58%	85%	27%	58%	85%
NHPC	8	0%	38%	38%	38%	62%	100%	38%	62%	100%
NTL	1	0%	100%	100%	100%	0%	100%	100%	0%	100%
OTPC	3	0%	67%	67%	0%	67%	67%	0%	67%	67%
POWERGRID	51	75%	24%	98%	14%	84%	98%	18%	80%	98%
TSECL	7	0%	86%	86%	71%	29%	100%	71%	29%	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 (<a href="https://tripping.nerldc.in/Default.aspx">https://tripping.nerldc.in/Default.aspx</a>) for analysis purpose. In light of the cybersecurity measures implemented by Grid India to safeguard sensitive information, NERLDC has created the email address <a href="https://nerldcso3@gmail.com">nerldcso3@gmail.com</a>. 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 <a href="https://nerldcsos.org/nerldcsos.org/">nerldcsos.org/n

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

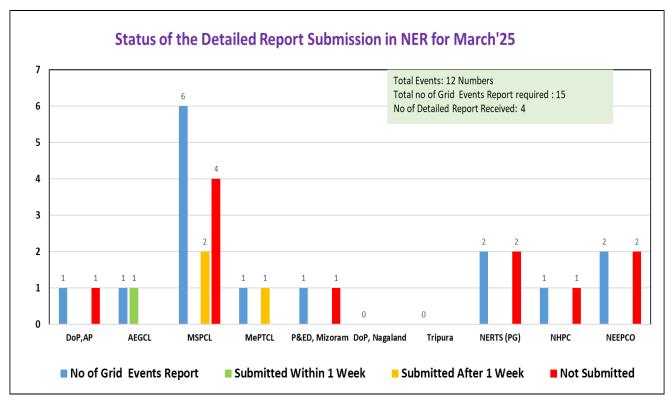
#### Deliberation of the sub-committee

AEGCL informed that submission percentage is low due to some ongoing completion of projects and submission will improve from next month.

Forum exhorted all the utilities to maintain 100% submission rate in compliance with IEGC 2023

# B.4 <u>Submission of Flash Report and Detailed Report by User/SLDC as per IEGC-2023:</u>

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 **March**, **2025** as on **11-04-2025** is shown below:



DoP AP, MSPCL, P&ED Mizoram, NERTS, NHPC and NEEPCO have not submitted the detailed report of grid disturbance

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.

#### Sub-committee may deliberate

#### Deliberation of the sub-committee

NERTS informed that detailed reports will be sent to NERLDC. Forum requested all the utilities 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.

# B.5 <u>Non-operation of auto recloser in Important Grid Elements for transient</u> faults in March 2025:

### $Minutes \,|\, 78^{th}\,PCCM\,\,|\, 21^{st}\,April\, 2025\,\,|\, Shillong$

S1.		Trippin			Auto-	Remarks
No	Element	g Date	RELAY_A	RELAY_B	Recloser	from
	Name	and			not	Utility
		Time			Operated	
1	132 kV AGTCCPP - Kumarghat Line	16-03- 2025 20:32:00	E, FD:	Kms, A/R	AGTCCPP (NEEPCO)	End to end testing will be done in coordinatio n with NERTS to resolve the AR issue at AGTCCPP.
2	132 kV Roing - Tezu Line	18-03- 2025 15:56:00	DP, ZI, B-E, FD: 47.961 Kms, A/R Not Operated	No Tripping	Roing (POWERGRI D)	During that time, BCU was not ready due to ongoing database updating work at Roing. Presently in working condition

		Τ		Γ	T	
						Basar SS is
						not handed
						over to
						DoP. Issue
			DP, ZI, R-Y,	DP, ZI, R-		to be
	132 kV Basar-	19-03-	FD: 33.15	Y, A/R	Basar (DoP,	resolved
3		2025	km, A/R	Operated	Arunachal	jointly by
	Daporijo Line	08:44:00	Not	Successfull	Pradesh)	DoP, AP
			Operated	у		And NER
						Comprehe
						nsive team
						of
						Powergrid
			DP, ZI, R-			
	100 111 D	23-03-	E, FD:	<b>7.</b> T	<b>.</b>	, n
4	132 kV Pare -	2025	11.41km,	No	Pare	Not
	Itanagar Line	17:18:00	A/R Not	Tripping	(NEEPCO)	Concluded
			Operated			
L			l	l .	l .	

#### 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 11.04.2025, MUML, NBTL, BGTPP, MEPTCL, POWERGRID, Kopili, Monarchak and DoP, Nagaland has submitted protection performance indices for the month of March'25.

SN	Name of Transmission Licencee	D= (Nc/ Nc+Nf)	S= (Nc/ Nc+Nu)	R= (Nc/Nc+Ni)	Remarks
1	MUML	-	-	_	No tripping during Mar'25
2	NBTL	-	-	-	No tripping during Mar'25

### $Minutes \,|\, 78^{th}\,PCCM\,\,|\, 21^{st}\,April\, 2025\,\,|\, Shillong$

3	BGTPP	-	-	_	No tripping during
					Mar'25
					(1) Tripping of 132kV
					NEHU-Mawlyndep at 12:09
					Hrs of 23-03-2025:
					Overreaching of Zone-1
					protection of 132kV NEHU-
					Mawlyndep on Zone-1. The
					problem has been rectified
					after reviewing the line
					length as per LFL data from
					18kM to 17.26kM and also
4	MePTCL	1	0.667	0.667	the setting has been
'	MCI ICE				accordingly reset.
					(2) Tripping of 220/132kV,
					160MVA ICT-1 at
					Mawphlang at 15:58 Hrs of
					26-03-2025: Un-
					intentional tripping of
					220/132kV, 160MVA ICT-
					1 at Mawphlang S/S
					during testing works. The
					ICT was charged again and
					hence normalized.
5	POWERGRID	1	1	1	
					Unwanted Tripping of 220
	MEEDOO				kV Kopili - Misa 1 Line at
6	NEEPCO Vanili	1	0.333	0.333	18:07 Hrs and 23:18 Hrs of
	Kopili				11.03.2025. As per SOPR
					Report- Under Observation
7	Monarchak	1	1	1	
7	DoP Nagaland	1	1	1	

Protection Performance Indices not received from transmission utilities such as **DoP**, **Arunachal Pradesh**, **AEGCL**, **MSPCL**, **P&ED Mizoram**, **TSECL**, **NETC**, **KMTL**. Also, not received from Generating companies such as **OTPC**, **NHPC** and **NEEPCO** (**AGBPP**, **AGTCCPP**, **Kameng and Doyang**).

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 of the sub-committee

Submitted by MUML, NBTL, BGTPP, MePTCL, POWERGRID, NEEPCO (Kopili, Monarchak, Doyang, Pare (21-04-2025) etc.), DoP Nagaland, OTPC (17-04-2025), AEGCL (19-04-2025), TPTL (21-04-2025)

Not received from transmission utilities such as DoP, Arunachal Pradesh, MSPCL, P&ED Mizoram, NETC, KMTL. Also, not received from Generating companies such as NHPC and NEEPCO (AGBPP, AGTCCPP, Kameng)

Forum urged all utilities for timely submission of protection performance indices in compliance with IEGC.

#### B.7 Time Drift issue of submitted Disturbance recorder during March 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 March 2025 are as follows:

### $Minutes \,|\, 78^{th} \,PCCM \,\,|\, 21^{st} \,April \,2025 \,\,|\, Shillong$

sl. No.	Element Name	Tripping Date and Time	Time Drift Issue in DR submitted from	Time Drift duration	Remarks
1	132 kV Gohpur - Pavoi 2 Line	26-03- 2025 17:38	Gohpur (AEGCL)	56 mins	GPS Issue at Gohpur
2	132 kV Gohpur - Nirjuli Line	13-03- 2025 21:49	Nirjuli (POWERGRID)	31 mins	There is no time syn issue at Nirjuli mentioned by NERTS
3	132 kV Karong - Kohima Line	02-03- 2025 01:40	Kohima (Nagaland)	22 mins	Time synch issue rectified at Kohima
4	132 kV Loktak - Ningthoukhong Line	24-03- 2025 11:38	Ningthoukhong (MSPCL)	7 mins	Time synch issue rectified at Ningthoukhon g
5	132 kV Baramura - Jirania Line	17-03- 2025 20:40	Jirania (TSECL)	6 mins	Time synch issue rectified at Ningthoukhon g
6	132 kV Dimapur (PG) - Kohima Line	13-03- 2025 09:12	Kohima (Nagaland)	5 mins	Time synch issue for Dimapur feeder yet to be rectified at Kohima.

### $Minutes \,|\, 78^{th} \,PCCM \,\,|\, 21^{st} \,April \,2025 \,\,|\, Shillong$

sl. No.	Element Name	Tripping Date and Time	Time Drift Issue in DR submitted from	Time Drift duration	Remarks
7	132 kV P K Bari (Sterlite Power) - P K Bari (TSECL) Line	19-03- 2025 15:34	P K Bari (Sterlite Power) and P K Bari (TSECL)	1 min and 6 mins respectively	Time synch issue rectified at P K Bari (TPTL)
8	132 kV Agartala - Rokhia 2 Line	22-03- 2025 22:11	Agartala & Rokhia (TSECL)	3 mins both ends	Yet to be rectified
9	132 kV Mawlyndep- Mustem Line	23-03- 2025 12:09	Mustem (MEPTCL)	3 mins	There is no GPS clock at Mustem like many other substation at Meghalaya. Hence, need to be done manually
10	132 kV Agartala - Surajmaninagar 1 Line	05-03- 2025 05:09	Agartala and Surajmaninagar (TSECL)	2 mins and 8 mins respectiv ely	
11	132 kV Karong - Kohima Line	01-03- 2025 10:39	Kohima (Nagaland)	2 mins	
12	132 kV Aizawl - Kolasib Line	30-03- 2025 13:08	Aizawl and Kolasib (POWERGRID)	1 min and 2 mins	

sl. No.	Element Name	Tripping Date and Time	Time Drift Issue in DR submitted from	Time Drift duration	Remarks
				respectiv ely	
13	400 kV New Kohima - New Mariani 2 Line	29-03- 2025 11:13	New Mariani (POWERGRID)	1 min	To be dropped
14	132 kV Along - Pasighat Line	25-03- 2025 15:21	Along (DoP, AP)	1 min	To be dropped
15	132 kV Basar-Daporijo Line	19-03- 2025 08:44	Daporijo (DoP, AP)	1 min	To be dropped
16	132 kV Aizawl - Tipaimukh Line	13-03- 2025 09:36	Aizawl (POWERGRID)	1 min	To be dropped
17	132 kV Jiribam - Tipaimukh Line	13-03- 2025 09:36	Jiribam (POWERGRID)	1 min	To be dropped
18	132 kV Basar-Daporijo Line	05-03- 2025 21:25	Basar (DoP, AP)	1 min	To be dropped

Utilities should ensure that the submitted DR and EL files have correct time synchronization for proper analysis purposes. Healthiness of GPS may be checked and time to be adjusted as per grid code.

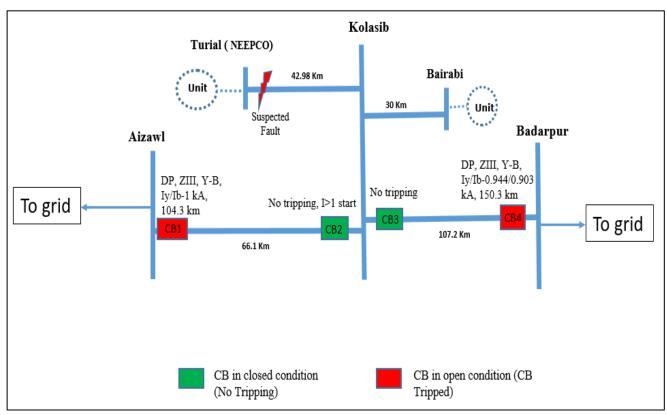
#### **Deliberation of the sub-committee**

Forum directed the concerned utilities to install GPS based synchronization system at all the 132kV and above substations and to be resolved as remarks in the agenda item.

# B.8 Grid Disturbance in Tuirial S/S of NEEPCO & Kolasib and Bairabi areas of Mizoram Power System on 20-03-2025:

Kolasib area of Mizoram Power System was connected with rest of NER Grid through 132 kV Kolasib-Badarpur and 132 kV Kolasib – Aizawl lines. Turial and Bairabi S/S are connected with Kolasib via 132 kV Kolasib – Turial line and 132 kV Kolasib – Bairabi line.

At 14:24 Hrs of 20-03-2025, 132 kV Aizawl-Kolasib and 132 kV Badarpur-Kolasib lines tripped resulting in grid disturbance Tuirial S/S of NEEPCO & Kolasib and Bairabi areas of Mizoram. Load loss of 6 MW occurred. There was no generation loss.



As per DR analysis, Y-B phase fault with Iy-1 kA, Ib-1 kA initiated at 14:24:10.766 Hrs which was cleared from Aizawl end within 861 msec and from Badarpur end within 853 msec on operation of DP, ZIII. There was no tripping from Kolasib end for both the lines.

Fault is suspected in 132 kV Kolasib-Tuirial line.

Following observations:

 Fault is suspected in 132 kV Kolasib-Tuirial line which was not cleared from Kolasib end resulting in tripping of healthy 132 kV Aizawl-Kolasib and 132 kV Badarpur-Kolasib lines from remote end on operation of DP, ZIII.

- Protection system of 132 kV Kolasib-Turial line failed to isolate the fault.
   P&ED Mizoram needs to ensure healthiness of protection system of 132 kV Kolasib-Tuirial 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 kind of event occurred at 03:34 Hrs of 07-04-2025 in which tripping of 132kV Aizawl-Kolasib and 132kV Badarpur-Kolasib lines tripped leading to loss of power in Turial HEP, Kolasib S/S, and Bairabi HEP area of Mizoram Power system (Load loss: 1 MW). Such repeated grid disturbances are the cause of concern. *Similar incident occurred at 03:34 Hrs of 07-04-2025*.

P&ED Mizoram and NEEPCO may update the actions taken on the above-mentioned issues.

#### Deliberation of the sub-committee

NEEPCO updated that Turial was under shutdown at the time, therefore no-fault current was observed at Turial end.

Mizoram informed that fault was cleared from Kolasib end although no relay pick up was observed. Further he stated that Distance relay at Bairabi end for the Kolasib line has been replaced as there was some issue with it.

The forum noted that due to non-clearance of fault from Kolasib end this GD occurred and asked Mizoram to share the settings at Kolasib end and DRs of the event to NERPC and NERLDC at the earliest.

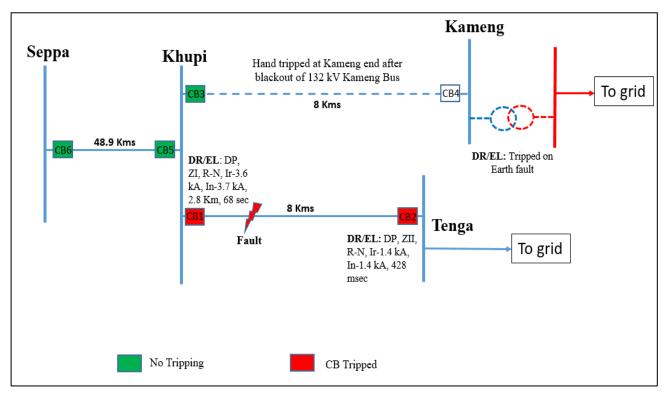
Forum suggested MRT, Mizoram to conduct relay testing for checking the healthiness for 132 kV Kolasib – Tuirial and 132 kV Kolasib – Bairabi line.

# B.9 <u>Grid Disturbance in 132 kV Kameng S/S of NEEPCO and Khupi and Seppa</u> 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.

#### **Deliberation of the sub-committee**

NEEPCO updated, regarding tripping of ICT at Kameng, that a tree branch fell on the ICT during the inclement weather.

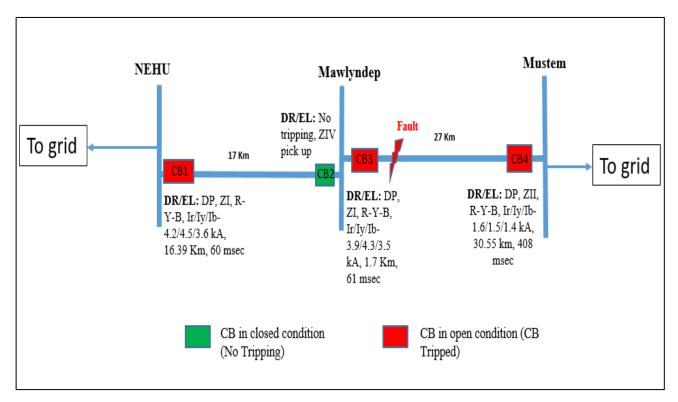
NERPC raised concern that tripping is related to Fault in the Khuppi-Tenga line and there may be issue with the B/U protection settings of the ICT.

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.

# B.10 Grid Disturbance in Mawlyndep area of Meghalaya Power system on 23-03-2025

Mawlyndep area of Meghalaya Power System was connected with rest of NER Grid through 132 kV NEHU-Mawlyndep & 132 kV Mawlyndep-Mustem lines.

At 12:09 Hrs of 23-03-2025, 132 kV Mawlyndep-Mustem and 132 kV Mawlyndep-NEHU lines tripped resulting in blackout of Mawlynep area of Meghalaya. Load loss of 12 MW occurred.



As per DR analysis, R-Y-B fault in 132 kV Mustem-Mawlyndep line with Ir-1.6 kA, Iy-1.5 kA, Ib-1.4 kA initiated at 12:06:38.585 Hrs and cleared within 408 msec on operation of DP, ZII (fault distance- 30.55 km) from Mustem end. Fault cleared within 61 msec from Mawlyndep on ZI. Carrier was send from Mawlyndep end. However, Mustem CB tripped after ZII time delay.

For 132 kV NEHU-Mawlyndep line, R-Y-B fault (Ir-4.2 kA, Iy-4.5 kA, Ib-3.6 kA) initiated at 12:09:18.501 Hrs and cleared within 60 msec on operation of DP, ZI from NEHU end. There was no tripping from Mawlyndep end (ZIV pickup)

**Root cause**: Lighnting Fault in 132 kV Mustem-Mawlyndep line at a distance of 1.7 Km from Mawlyndep end.

Following observations:

- Tripping of 132 kV NEHU-Mawlyndep line on ZI from NEHU for fault in 132 kV Mustem-Mawlyndep line is inferred unwanted as ZI overreached from NEHU end.
- ZI setting at NEHU for 132 kV Mawlyndep line needs to be reviewed by MePTCL.
- "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.

- SOE not recorded for tripping of 132 kV NEHU-Mawlyndep & 132 kV Mustem-Mawlyndep lines. The same needs attention from MePTCL/SLDC Meghalaya.
- Time drift of 3 min observed at Mustem end for 132 kV Mustem-Mawlyndep line.

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

#### Deliberation of the sub-committee

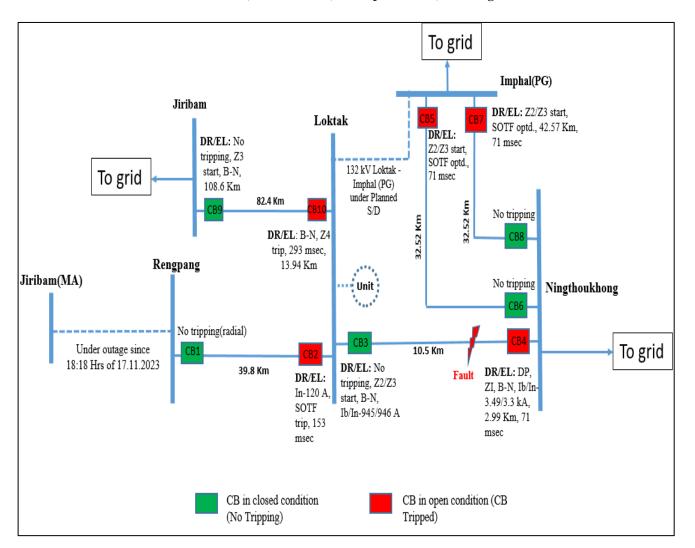
MePTCL updated that overreach issue, for the zone 1, protection at NEHU for the Mawlyndep line has been rectified.

NERLDC highlighted 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.

# B.11 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)-Ninghtoukhong 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 sub-committee

PowerGrid informed, regarding tripping of Imhpal-Ningthounkong 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 -

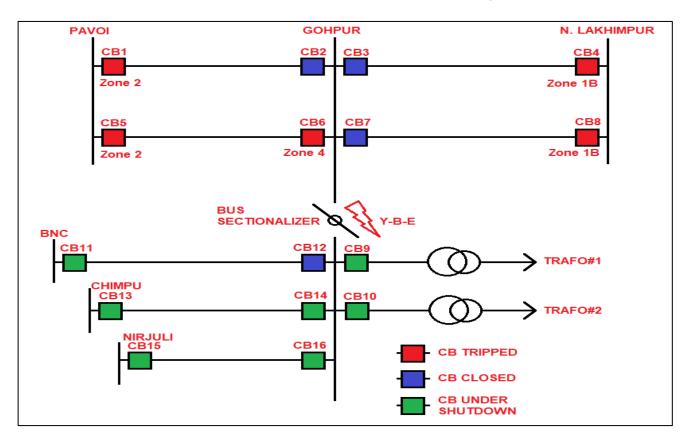
- 1. Implement PLCC and Line differential protection on the Loktak Ningthounkong (10.5 Km) line
- 2. Review and rectify the Z4 timing and reach at Loktak end for the Jiribam line
- 3. Rectify the SOTF issue at Loktak end for Rengpang line.
- 4. Submit detailed report of the grid event at Loktak.

#### B.12 Grid Disturbance in Gohpur area of Assam power system on 26-03-2025:

Gohpur area of Assam power system was connected with the rest of the NER grid through 132 kV Gohpur-Nirjuli, 132 kV Gohpur-BNC(PG), 132 kV Gohpur-Itanagar, 132 kV Gohpur-North Lakhimpur D/C lines & 132 kV Gohpur-BNC(AS) D/C lines. 132 kV Bus at Gohpur GSS is divided into two sections, separated by a Bus Sectionalizer isolator.

Bus shutdown was taken at Gohpur for installation of Bus isolators, alignment works (New 132 kV Railway traction bay).

During restoration of the bus shutdown, all the 132 kV feeder breakers were closed one by one. But it was noticed that, the spring charging motor of the 132 kV Gohpur – BNC (PG) bay malfunctioned.



To address the issue with CB12 of BNC feeder, the CB was attempted to be opened but operation was unsuccessful. As a result, to isolate the CB of BNC bay, a shutdown of the bus section connected to BNC bay was availed.

All the feeders connected to the bus section connected to 132 kV BNC feeder were opened (CB11, CB13, CB14, CB15, CB16, CB9 and CB10). BNC was opened at remote end (CB11).

A flashover was observed during the opening operation of the bus-Sectionalizer which resulted in the blackout of Gohpur S/S.

#### Following observations:

- As per DR analysis, phase-phase-ground fault initiated at 17:39:18.281 Hrs and cleared on ZII from Pavoi end and on Z1B from North Lakhimpur end. Z4 trip from Gohpur end for 132 kV Pavoi II line.
- Root cause of flashover in bus sectionalizer isolator is unclear.
- CB4 and CB8 at North Lakhimpur end tripped on Zone1B protection instantaneously. Carrier Aided protection scheme for 132 kV Gohpur – North Lakhimpur I & II lines needs to be checked.
- Time drift of 45 min observed at Gohpur end for 132 kV Gohpur-Pavoi II line which need to be sync with GPS.

SOE not recorded for tripping of 132 kV Gohpur-North Lakhimpur I & II lines.
 The same needs attention from AEGCL/SLDC Assam team.

#### AEGCL may update the actions taken on the above-mentioned issues.

#### Deliberation of the sub-committee

AEGCL informed that CB12 was could not open due to trip coil issue and Gohpur-BNC line was idly charged from Gohpur end. Thence, there was flashover across the isolator of the Bus sectionalizer during opening operation. AEGCL also informed that the trip coil issue of CB12 has been resolved now.

Also, Z1B tripping at North Lakhimpur for fault beyond the line will be rectified during the next S/D during April'25.

NERLDC highlighted that there is no proper bay for the bus sectionalizer and if there had been a CB associated with it, the GD would have been avoided.

Forum requested AEGCL to commission proper bay for the Bus sectionalizer in order to avoid such issues.

# B.13 Grid Disturbance in Thoubal(Old) area of Manipur power system on 29-03-2025:

Thoubal(Old) area of Manipur power system was connected to rest of NER grid through 132 kV Thoubal(New)-Thoubal(Old) & 132 kV Thoubal(Old)-Kakching lines. At 14:27 Hrs 29-03-2025, due to wildfire near Thoubal S/S, 132 kV Thoubal(Old)-Kakching, 132 kV Thoubal(New) – Kongba I and 132 kV Thoubal(New) – Kakching lines tripped. Also, 400/132 kV ICT at Thoubal and 132 kV Thoubal(New) – Thoubal(Old) lines were hand tripped.

Due to tripping of these elements, Thoubal(Old) area of Manipur got isolated from rest of NER grid due to no source available in this area. Load loss of 11 MW occurred. The details of tripping are shown below:

क्रम . संख्या	नाम	ट्रिपिंग का समय	पनस्थीपना का	उप केंद्र 1 रिले संकेत	उप केंद्र 2 रिले संकेत
S1. No.	Name	Trip time	Restoration time	Relay indications End 1	Relay indications End 2

		(hh:mm)			
1	132 kV Thoubal(New) – Kongba I Line	14:27	-	Tripped on Ov	ercurrent
2	132 kV Thoubal(Old)- Kakching Line	14:27	-	Tripped on Overcurrent	
3	132 kV Thoubal(New)- Kakching Line	14:27	-	Tripped on Overcurrent	
4	315 MVA, 400/132 kV ICT at Thoubal(new)	14:27	17:45	Hand Tripped	
5	132 kV Thoubal(New) – Thoubal(Old) Line	14:27	17:45	Hand Tripped	

#### Following observations:

- DR/EL not submitted by MSPCL for tripping of the elements which is a violation of Clause 37.2 (c) of IEGC-23.
- 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.
- SOE not recorded for tripping of 132 kV Thoubal(New)-Kongba I, 132 kV Thoubal(Old)-Kakching, 132 kV Thoubal(New)-Kakching lines and 400/132 kV ICT at Thoubal(New). The same needs attention from MSPCL/SLDC Manipur team.

#### Similar event occurred at 21:56 Hrs of 29-03-2025.

MSPCL may update the root cause and remedial measures taken.

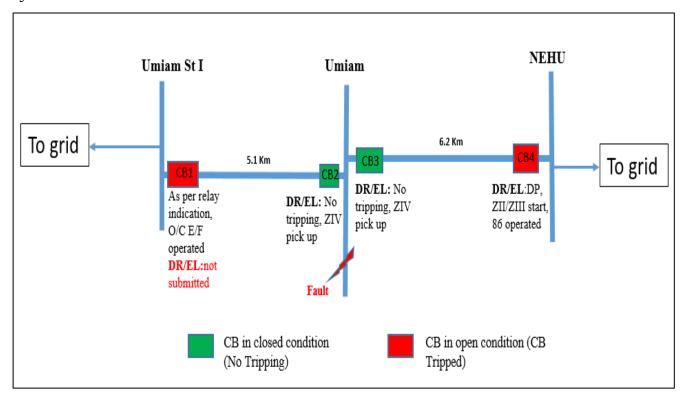
#### Deliberation of the sub-committee

MSPCL informed that there was severe wildfire near Thoubal substation which led to tripping of multiple lines. Further he informed that DR are not available.

Forum requested SLDC Manipur to provide the detailed report regarding operation of protection system for the event to NERPC and NERLDC at the earliest.

# B.14 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 sub-committee

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 Umaim 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.

## B.15 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.

S1.	Description	Analog	Digital Points		Protection
No.		Points			Signal
1	SPS Signal		DIGITAL Enable/Disable,	STATUS:	

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	Operated/No	Operated	
	(Condition/Logic	e Wise)	

## **Display of SPS SCADA Mapping**



At present, there are 22 numbers of SPS under operation and 3 numbers of SPS under implementation as listed tabulated below:

SI. No.	SPS under operation	Long term measures	SPS mapping status in SCADA ( YES/No) as per 77th PCCM
1	Tripping of 400kV  Palatana-Silchar D/C-  when both modules of  Palatana are in service  causes tripping of HV side  breaker of 2x125 MVA,	After commissioning of 400 kV Palatana - Surajmaninagar line-1, there is no requirement of this SPS and hence, it is to be kept OFF. However, the SPS at Palatana is to	logic to be mapped after

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	400/132 kV ICT at	be kept ON during shut	
	Palatana	down of 400 kV Palatana-	
		Surajmaninagar(ISTS)	
		line-1	
	Related to Generation		
	evacuation from		
	Monarchak(NEEPCO)		
	<b>Power Plant</b> - Tripping of	Commissioning of 132 kV	
2	STG at Monarchak under	Monarchak-	Mapping done till
	outage of any one circuit of	Surajmaninagar line	SLDC. To be
	132 kV Monarchak –		extended till
	Rokhia line & 132 kV		NERLDC by the
	Monarchak- Udaipur		SLDC
	SPS related to outage of		
	220 Misa-Samaguri DC:	Commissioning of 400 kV	
2	On tripping of 220 kV	Sonapur Substation. LILO	
3	Misa- Samaguri DC: Load	of 400 kV Bongaigaon-	
	reduction of 50-60 MW at	Byrnihat Line at Sonapur.	RTU issue. By
	Samaguri area		May'25
4	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
5	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
6	Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C	Reconductoring of 132 kV Khliehriat – Leshka D/C	Done

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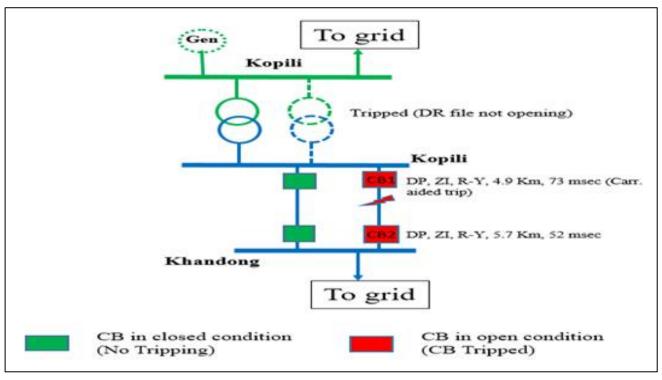
7	Related to 132kV SM Nagar(ISTS) - SM Nagar line to prevent Overloading		Done
8	Related to Outage of 400  kV Palatana - Surajmani  Nagar line (charged at  132 kV) - Tripping of 400  kV SM Nagar - Comilla  D/C (charged at 132 kV)  during outage of 400 kV  Palatana - SM  Nagar(TSECL) line (charged at 132 kV)	Upgradation of 132 kV Surajmaninagar(TSECL) to 400 kV	Done
9	SPS at Pasighat substation for preventing Overloading of 132 kV Tinsukia-Rupai/Tinsukia-Ledo Lines in the event of a tripping on the 132 kV Paynor-Ziro Line	Commissioning of 220kV Kathalguri –Namsai D/C lines	Mapping not required as the scheme will be disconitued in coming month after charging of 220 kV AGBPP – Namsai at AGBPP end
10	SPS related to overloading of 2x160 MVA 220/132 kV ICTs at BTPS		Done

S1.	SPS unde	
No.	implementation	Long term measures
	Related to Outage of or	е
	circuit of 400 k	J
1	Surajmani Nagar (TSECL	- Upgradation of Comilla SS to 400 kV level
	South Comilla lin	e
	(Charged at 132 kV)	

### Utilities may update

### B.16 Tripping of 220/132 kV Kopili ICT-II on 17.03.2025

At 13:53 Hrs of 17.03.2025, 132 kV Khandong-Kopili I line and 160 MVA, 220/132 kV ICT-II at Kopili tripped.



As per DR analysis, R-Y phase fault (Ir-3.2 kA, Iy-3.3 kA) in 132 kV Khandong-Kopili I line initiated at 13:53:51.371 Hrs and cleared within 52 msec on operation of DP, ZI from Khandong end. At Kopili end, fault cleared within 73 msec on operation of DP, ZI (Carrier aided tripping).

At 13:53:53 Hrs, 220/132 kV ICT-II at Kopili tripped on operation of end fault protection (EFP) of 220kV Busbar Protection as per information received from POWERGRID. (Submitted DR file is not opening)

Tripping of 220/132 kV ICT-II at Kopili for fault in 132 kV Khandong-Kopili I line is inferred unwanted.

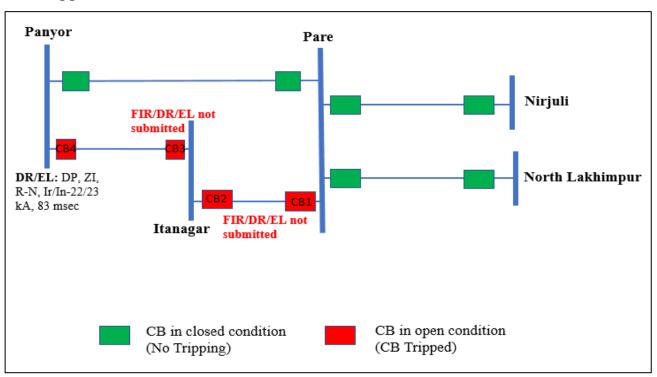
NEEPCO may update the reason for operation of end fault protection of 220/132 kV Kopili ICT-II for fault beyond line and its corrective measures.

#### Deliberation of the sub-committee

NEEPCO informed that the tripping of ICT occurred due to some issue with EFP logic and the same has been rectified now.

## B.17 <u>Multiple Tripping of 132 kV Pare-Itanagar & 132 kV Panyor-Itanagar</u> Lines on 28-03-2025:

At 18:10 Hrs of 28-03-2025, 132 kV Pare-Itanagar line & 132 kV Panyor-Itanagar Line tripped.



As per DR analysis, R-N fault (Ir-22 kA, In-23 kA) initiated at 18:10:13.739 Hrs which was cleared within 83 msec from Panyor end on operation of DP, ZI.

At the same time, 132 kV Pare-Itanagar Line tripped which seems to be unwanted. Following observations:

- It is not clear which protection system operated at Itanagar as FIR/DR/EL not submitted at Itanagar end for tripping of 132 kV Panyor-Itanagar Line.
- FIR/DR/EL not submitted for tripping of 132 kV Pare-Itanagar Line.

NEEPCO/DoP Arunachal Pradesh may update the root cause and unwanted tripping of 132 kV Pare-Itanagar Line.

#### Deliberation of the sub-committee

DoP Ar. Pradesh informed that there was LLG fault due to lightening on the Itanagar-Pare line. NEEPCO informed that Panyor-Itanagar line tripped at panyor end due to LA blasting. The forum opined that LA might have blasted due to lightening and the LA might not have been in good condition.

Forum requested all the utitlies to conduct the THRC test of the LA on quarterly basis in order to maintain the healthiness of the same.

### Agenda from DoP Arunachal Pradesh

## B.18 Review of Protection Settings of 33 kV Outgoing Feeders of POWERGRID Substations in Arunachal Pradesh

The protection settings of the 33 kV outgoing feeders at POWERGRID substations in Arunachal Pradesh are observed to be excessively sensitive and significantly deviate from the recommendations of the NER Protection Protocol. A specific instance is highlighted below for the **33 kV Medo Feeder at Tezu Grid Substation**, where the sensitivity of the protection settings hinders effective fault isolation within the downstream elements of the Medo Substation. The details of the current protection settings implemented at Tezu (PG) Substation for the Medo feeder are as follows:

Protection Function	Char	Pickup Current	тмѕ
I> (Stage 1)	IEC S Inverse	39 A	0.03
I>> (Stage 2)	DT	150 A	0
IN> (Stage 1)	IEC S Inverse	6 A	0.08
IN>> (Stage 2)	DT	51 A	0

#### Observations:

- 1. **TMS for I> (SI curve)** is set at **0.03**, against the recommended value of 0.1, providing minimal time discrimination margin for downstream fault clearance.
- 2. **Pickup current** is configured at **39 A (Primary)**, which is considerably lower than the recommended settings. This setting should be revised upwards to allow for better coordination.
- 3. **I>> (DT function)** is set at **150 A (Primary)** with **0 sec time delay.** The pickup is not only considerably lower that the recommended settings, but also lower than the recommended pick up for stage 1 protection, causing

indiscriminate tripping of the Tezu feeder for phase-to-phase faults even within downstream systems, potentially resulting in complete blackout of the Medo Bus and other connected systems.

4. **Earth Fault Settings** are similarly sensitive and inconsistent with the NER Protection Protocol.

Such repeated tripping at POWERGRID substations due to overly sensitive settings projects a misleading impression that the Department of Power's (DoP) protection systems are incapable of isolating faults within their own network.

In view of the above, it is requested that the protection settings at the POWERGRID end be reviewed and revised in line with the NER Protection Protocol to ensure proper coordination, selective tripping, and overall system reliability.

#### Deliberation of the sub-committee

PowerGrid informed the forum that there is no Medo feeder at Tezu Grid Substation and the setting sof the existing 33kV feeders at Tezu are different from what DoP Ar. Pradesh has presented.

Nevertheless, DoP Ar. Pradesh stressed that there are issues with protection settings coordination at the Grid substation and the downstream 33/11kv substations are not getting sufficient time to clear the downstream faults.

Forum advised DoP Ar. Pradesh and PowerGrid to conduct a joint visit to the site and resolve the issue bilaterally.

#### 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
	198/MP/2020	DoP, Arunachal Pradesh
08-Nov-2023	259/MP/2020	DoP, Nagaland
	539/MP/2020	MSPCL
27-Oct-2023	535/MP/2020	TPTL/TSECL
	540/MP/2020	P&ED, Mizoram

In 63<sup>rd</sup> 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 77<sup>th</sup> PCCM, NERLDC all the concerned states have submitted the progress report till Feb'25 except for Manipur which has not submitted the report for Feb'25. MSPCL assured that the report will be sent shortly.

#### Deliberation of the sub-committee

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-Marhch'25 quarter will be submitted to CERC shortly.

## 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 78th PCCM as provided in the table below:

S1		Trippin				Remarks from
N	Element	g date	Relay	Relay	A/R not	Utility (78th
0	Name	and	End1	End2	Operated	PCCM)
		time				
			DP,ZI,Y-			Wiring done.
	132 kV	17-11-		DP,ZI,R-		Testing to be
1	Agartala -	2023	km, AR	Y,FD:11.98	Surajman	done in next
	Surajmanina	15:10	successfu	KM	inagar	shutdown by
	gar 2 Line		1			the end of
						April'25
	132 kV	29-03-	DP, Z1, R-	-		СВ
2		2024	Y, FD:	DP, Z1, R-	Doyang	procurement
_	Doyang 2	13:10	72.6km	Y		underway. By
						May'25

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

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						MePTCL. Work	
						to be done in	
						shutdown on	
						23.04.2025	
6	132 kV	10-11-	DP, ZI, Y-	DP, ZI, Y-	Bokajan	Issues with	
	Bokajan -	2024	E, FD: 20.3	E, FD: 8.4	(AEGCL)	pneumatic	
	Dimapur Line	13:08	kms	KM, AR		breakers at	
				Successfu		Bokajan end.	
				1		New CBs in	
						transit, to	
						reach the site	
						by end of	
						June'25	
				DP, ZI, B-			
				E, FD:		Issue with	
	132 kV	13-01-	DP, ZI, B-	67.724K	Daporijo	pneumatic	
7	Daporijo -	2025	E, AR Not	ms, A/R	(DoP AP)	CBs. Testing to	
	Ziro Line	15:00:00	Operated	Operated	,	be done in	
				Successfu		next shutdown	
				lly			
						At Itanagr end,	
				DP, ZI, Y-		Gang	
			DP, ZI, Y-			opoperated	
	132 kV	22-02-	B, FD:		Ranganad	CBs so SPAR	
8	Ranganadi-	2025	6.132kms,	A/R	i	is not feasible.	
	Itanagar line	08:26:00	A/R Not	-	(NEEPCO)	Forum	
			Operated	Successfu		suggested no	
				lly		AR multi-	
						phase fault.	

## Sub-committee noted as above

#### C.3 Multiple tripping of 220 kV Kopili - Misa 1 Line:

220 kV Kopili - Misa 1 Line tripped twice at 18:07 Hrs and 23:18 Hrs on 11-03-2025 on DT received at Misa end. As per PMU, there is no fault in the system. Thus, tripping on DT received seems like a spurious DT operation.

NEEPCO may update the root cause as well as the remedial measures.

In 77<sup>th</sup> PCCM, NEEPCO stated that apparently there was no fault in the system and spurious signal was sent to Misa end. PowerGrid suggested that there might be fault in the cable used for DT. Forum advised NEEPCO to check for any faults in the cable and update in next PCC meeting.

#### NEEPCO may update

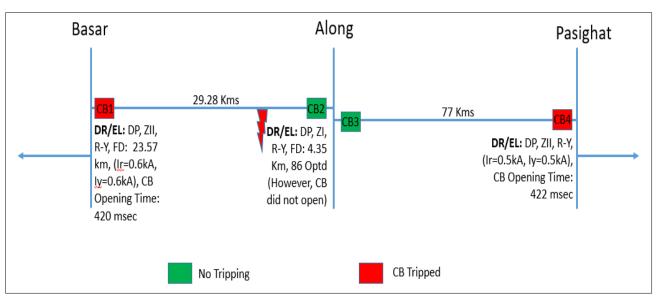
#### Deliberation of the sub-committee

NEEPCO updated that unwanted DT transmission from Kopili end for 220 kV Kopili - Misa 1 Line due to loose connection in the cable from CRP panel to PLCC panel which has been rectified.

## C.4 Grid Disturbance in Along area of Arunachal Pradesh on 15-02-2025:

Along area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Along-Basar & 132 kV Along-Pasighat lines.

At 00:38 Hrs of 15-02-2025, 132 kV Along-Pasighat and 132kV Along-Basar lines tripped resulting in grid disturbance in Along area of Arunachal Pradesh. Load loss of 4 MW occurred.



As per DR analysis, high resistive R-Y fault (Ir-697 A, Iy-683 A) in 132 kV Along-Basar line initiated at 00:39:00.712 Hrs which was cleared within 420 msec from Basar end on operation of DP, ZII, R-Y, FD: 23.57 km. ZI started from Along end and trip command issued. However, CB at Along fails to open. Non-isolation of fault from Along, resulted in clearing of fault from remote end by tripping of 132 kV Pasighat-Along on DP, ZII, R-Y, within 422 msec.

#### Observations:

- Non-opening of CB at Along for 132 kV Along-Basar line despite issuance of ZI trip command. DoP AP to immediately resolve the Pneumatic type Circuit Breaker issue of Basar feeder at Along Substation, which is reported to be in poor working condition. In the 76th PCCM, DoP AP informed that they are facing fund issue for procurement of CB. Also, there are no spare CB available.
   Forum urged DoP AP to keep mandatory spares in substations as per CEA guidelines.
- DoP AP to implement multiphase along with 1-Ph A/R for continuity of power supply in case of transient multiphase fault.
- After 302 msec of initiation of fault, LBB operated at Along end for Basar line.
   However, 132 kV Along-Pasighat line did not open. LBB time delay setting and its wiring circuit to all feeders at Along to be reviewed
- SOE not recorded for tripping of 132 kV Along-Basar line. The same needs attention from DoP Arunachal Pradesh/SLDC Arunachal Pradesh
- Time drift of 1 min observed at both Pasighat end for 132 kV Along-Pasighat line and at Basar end for 132 kV Along-Basar line which need to be sync with GPS.

It is to be mentioned that similar kind of disturbance observed on 08th Dec'24, 23rd January'25 and 05th Feb'25 and it was already highlighted in the 75th & 76th PCC meeting. In the 76th PCCM, DoP Arunachal Pradesh updated that CBs at Along to be replaced and proposal have been put up to higher authorities. DoP AP informed that they are facing fund issue for procurement of CB. Also, there are no spare CB available. The forum strongly advised DoP Arunachal Pradesh to replace the CBs on urgent basis as multiple blackouts have occurred due to the CB issue.

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Despite the recommendations provided in the 76th PCC minutes and NERLDC Protection Team vide ref mail 24/01/25 and letter Ref No NERLDC/SO/24-25/14/7384, dated 07/02/25, no corrective actions have been implemented, leading to repeated disturbances caused by the same known issue.

DoP Arunachal may provide an update on the actions taken in response to the aforementioned observations.

## Deliberation of 77th PCCM

Zone III settings at Pasighat modified from 120% to 100% as informed by POWERGRID.

PowerGrid suggested that till the CBs are procured, any CB from tie bays of other substation may be used in the main bay of Basar line at Along ss. Forum endorsed the view of PowerGrid and requested DoP Ar. Pradesh to look into the advice of Powergrid.

#### DoP Ar. Pradesh may update

### **Deliberation of the sub-committee**

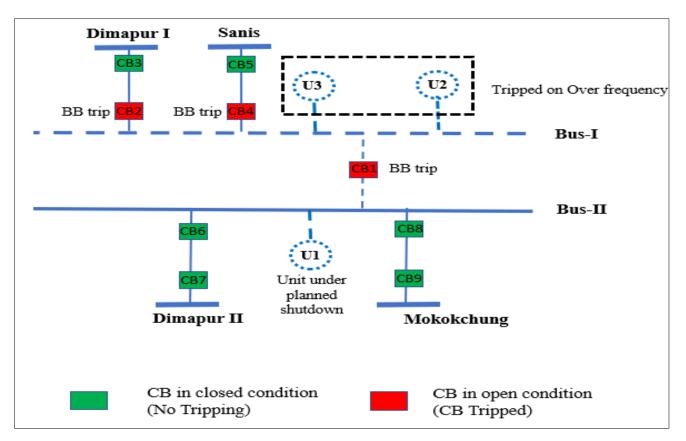
DoP Ar. Pradesh informed that state funding is being explored for procurement of CBs and the issue may be finalized this FY.

#### C.5 Near Miss Event in Doyang S/S of NEEPCO on 16-02-2025:

Doyang S/S of NEEPCO was connected with rest of NER Grid through 132 kV Dimapur-Doyang D/C lines, 132 kV Doyang-Sanis line and 132 kV Doyang-Mokokchung Line.

Prior to the event, 132 kV Doyang-Dimapur I line, 132 kV Doyang-Sanis line, Doyang Unit-2 & 3 were connected to Bus-I and 132 kV Doyang-Dimapur II line and 132 kV Doyang-Mokokchung line were connected Doyang Bus-II. Doyang Unit-I was under planned shutdown.

At 19:59 Hrs of 16-02-2025, during desynchronization of Doyang Unit-2, 132 kV Bus-I at Doyang tripped on operation of bus bar protection resulting in tripping of all elements connected to Doyang Bus-I.



As per DR analysis of 132 kV Doyang-Dimapur I line, R-B (Ir=1.04kA, Ib=0.9kA) fault initiated at 19:59:32.761 Hrs. Fault was cleared within 52 msec from Doyang end on operation of Bus bar Trip. Also, Z5(rev) started at 19:59:32.786 Hrs.

As informed by NEEPCO, during desynchronization of Doyang Unit-II, due to Gen CB trip coil faulty / burned, CB unable to open due to Excitation trip.

#### Observation:

 DR/EL submitted for Doyang Unit-2 and Doyang Unit-3 does not open due to which proper analysis could not be done. NEEPCO is requested to submit correct DR/EL files.

NEEPCO is requested to update the root cause and remedial measures taken.

In 77<sup>th</sup> PCCM, NEEPCO informed that CB trip coil of Unit II got burned and the same might have caused fault in the system and BB operation.

NERLDC stated that complete analysis of the Units could not be done due to nonavailability of DR.

Forum requested NEEPCO to provide all the DR to NERLDC and referred the matter to PSAG for further analysis.

#### Deliberation of the sub-committee

NERPC informed that the matter was discussed in the PSAG meeting held on 11.04.2025 and action to be taken as per PSAG meeting. The matter may be reviewed again (if required).

LBB/BB operation could not be confirm as DR was not available with NERLDC & NERPC.

## Discussion during the PSAG Meeting:

### I. NERLDC's Analysis of Unit-2 Event:

NERLDC shared the detailed analysis for Unit-2.

- A circuit breaker (CB) tripping command was observed twice: first at 19:47 hrs and again at 19:59 hrs.
- At 19:47 hrs, Unit-2 entered motoring mode, with all phase currents leading the corresponding phase voltages by ~95 degrees, indicating the machine was injecting reactive power (VAR) with minimal active power.
- A Power1 Trip command was initiated at 19:47:31.218 hrs, followed by a Field Fail1 Trip command 840 milliseconds later. However, the CB remained in the closed position.
- Maximum phase currents of 1.2 kA were sustained for the next 12 minutes, until 19:59:32.822 hrs, when all elements connected to the 132 kV Bus-I tripped due to Line Breaker Backup (LBB) relay operation, clearing the fault from the system.

NERLDC emphasized that LBB/Busbar protection signals need to be incorporated into the Disturbance Recorders (DRs) of individual elements at Doyang for future clarity.

#### II. NEEPCO's Observations:

NEEPCO reported that during the withdrawal of Unit-2:

- One of the trip coils burnt, causing the machine CB not to open.
- As per standard practice, machine active power was reduced to 3-4 MW before initiating CB opening.
- Due to the CB not opening, low forward power occurred.
- LBB did not operate at 19:47 hrs, which indicates a need to review LBB settings.

#### III. Remarks by GM, NERLDC:

There should be two trip coils, each powered by an independent 220V DC supply. He expressed concern regarding the simultaneous failure of both trip coils. Requested NEEPCO to verify the trip coil circuitry for design and redundancy.

NEEPCO confirmed the presence of two trip coils, but both were faulty at the time of the event. They will carry out a detailed inspection of the tripping circuitry at Doyang.

### IV. Remarks by NERPC:

- It was noted that the exact time of LBB signal operation is unclear from the current analysis. NERPC directed NEEPCO to submit a detailed analysis of the event, focusing on the tripping circuitry at Doyang.
- Also requested to review the Reverse Power and LBB settings in coordination with NERPC. **Remedial Action**:
- NEEPCO to review the relay settings for Unit-2.
- The issue will also be taken up in the 78th PCC meeting for further discussion and resolution.

Root Cause highlighted by NEEPCO after the meeting: After inspection and checking carried out, it was observed and found that due to Circuit Breaker Mechanical plunger problem, i.e. it was locked and no movement occurred, during these periods due to continuous DC supply are injecting both the trip coil are burned simultaneously.

**Action taken by NEEPCO**: After that Shutdown taken and hammering the CB mechanical plunger and taken out, servicing the mechanical plunger and checked the related circuitry of trip coil and both the trip coil is replaced, after that problem is rectified and m/c is synchronised as per Schedule.

#### In 78th PCCM:

Based on DR and relay setting file received from Doyang for REB670 (BB protection), NERLDC highlighted LBB relay not operated despite of Trip command issued for Unit-2 and CB fails to open at 19:47 Hrs. However, ZA COMMON TR digital signal appears indicates the operation of Bus Bar protection at 19:59 Hrs leading to the outage of complete Bus I. Also, relay setting for LBB seems fine.

Forum requested to check the hardware wiring for LBB relay at Doyang for further analysis.

#### C.6 Bus bar protection at Surajmaninagar (TSECL):

As per the monthly progress report submitted by Tripura (Petition No535/MP/2020) for the month of December, 2024, the progress regarding implementation of Bus bar Protection at SM Nagar (TSCEL) is updated as: Will be implemented after getting

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fund from PSDF. TSECL may update the latest status of the same and mention the tentative date of completion as the issue is long pending.

#### As per 76th PCC minutes

TSECL updated that the DPR was submitted to PSDF seven months ago, but update has not been received from PSDF yet. MS NERPC advised to resubmit the DPR to PSDF with revised cost estimate. Forum also noted that Bus-Bar protection is not in service at 132kV Agartala SS. Further it was noted that due to non-availability of Busbar protection at 132 kV 79 Tilla (Agartala SS), Z4 timing of all 132 kV feeders may be revised to 200 msec considering the criticality of the substation which is catering to the capital city load.

*Tripura to update the latest status.* 

In 77<sup>th</sup> PCCM, Tripura updated that the proposal has been sent to the state government for funding. Further Tripura apprised that in the DPR CTs are also proposed to be replaced with higher ratings. NERTS informed that to commission Bus Bar protection there is no requirement of CT replacement. Forum requested Tripura to reconsider on the matter.

Regarding revision of Z4 timing at Agartala ss, PowerGrid updated that revision has been done their feeders, Tripura updated that the work will be done within one week.

#### Tripura to update

#### **Deliberation of the sub-committee**

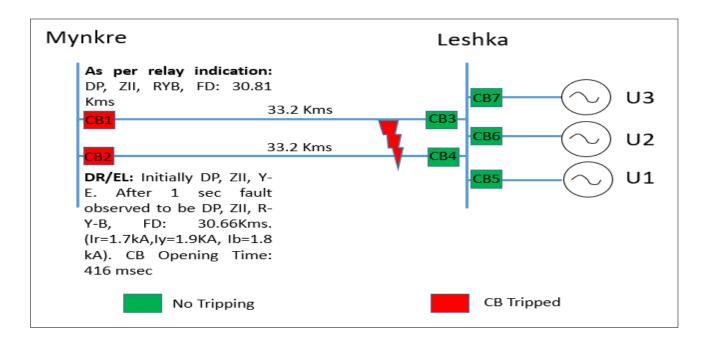
Tripura updated that they will review the requirement of CT replacement for the bus Bar protection and will resent the DPR accordingly.

Regarding revision of Z4 timing at Agartala, Tripura updated that the Zone 4 has been completed.

## C.7 Grid disturbance in Leshka HEP of Meghalaya Power System on 20-01-2025:

Leshka HEP of Meghalaya Power System was connected with rest of NER Grid via 132kV Mynkre-Myntdu Leshka D/C lines. At 09:16 Hrs of 20-01-2025, 132kV Mynkre-Myntdu Leshka D/C lines tripped, resulting in grid disturbance due to loss

of evacuation path of Leshka HEP area of Meghalaya Power System. At the same time Umiam stg1 Unit 1, Umiam stg1 Unit 2 and Umiam stg1 Unit 4 also tripped which seems to be nuisance tripping. Generation loss of 62 MW observed.



As per detailed report submitted by MePGCL, the 132kV link line from the 11kV/132kV Transformer Bay to the Switchyard passes through forest. Fault may have occurred in this line which is protected by O/C E/F relay.

#### Protection/Operational issues observed:

- Root cause of the tripping and the exact location of the fault may be shared by MePTCL and MePGCL
- Mynkre end DR channels for 132KV-Myntdu Leshka-Mynkre 1 Line are not standardised due to which proper analysis could not be done. The DR duration to be enhanced to 3 sec with Pre fault time of 500 msec and post fault of 2.5 sec. Also, voltage channel to be configured in analogue channel of DR in line with DR Parameter Standardisation report of FOLD Working Group-3. Action- MePTCL
- A huge time drift of 4 mins observed from Mynkre ends DR for 132KV-Myntdu Leshka-Mynkre D/C Lines. GPS need to be checked and time to be aligned to get correct sequence for analysis. Action-MePTCL.
- SOE not recorded for tripping of all elements from Mynkre and Leshka HEP. The same needs attention by team MeTCL and MePGCL.

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- Reason for tripping of 3 units from Umium stage-1 along with actions taken may be updated by MePGCL
- MePGCL may submit the Switchyard layout of Leshka for understanding of equipment location

#### Deliberation of the 76th PCCM

MePGCL informed that the fault occurred (vegetation fault) in the link line (from generator to the switchyard). He further informed that only B/U OC and EF protection is provided for this link.

Forum exhorted Meghalaya to implement the Line differential protection for the link. MePGCL informed that LDP procurement is in process.

MePGCL informed that correct DR for 132 kV Mynkre-Leskha I line will be submitted shortly.

Regarding tripping of Umiam Stg-I Unit-1,2&4, MePGCL informed that units tripped on operation of OC & EF relay. Tripping of Umiam Stg-I Unit-1,2&4 for fault in 132 kV link line at Leshka is unwanted which needs to be thoroughly investigated.

Forum referred the matter to PSAG for further analysis.

PSAG may update

In 77<sup>th</sup> PCCM, NERPC updated that the PSAG meeting will be held next week on the matter.

Regarding Differential protection on the link line, MePGCL informed that the DPR has been sent to PSDF on the matter.

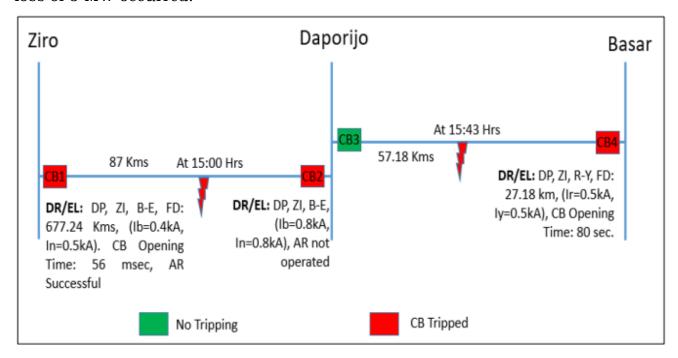
#### PSAG may update

#### Deliberation of the sub-committee

NERPC informed that the matter was discussed in the PSAG meeting held on11.04.2025. After analysing the event at Umiam St I, MePGCL highlighted the tripping occurred due to non-directional, high set OC relay P343 settings. However, DR could not be collected for event on 21-01-2025. Similar tripping also occurred on 17-April-2025. MEPGCL added the B/U O/C high set protection will be replaced with IEC very inverse curve with forward directionality. Forum advised MePGCL to share the settings with NERPC.

## C.8 Grid disturbance in Daporijo area of Arunachal Pradesh Power System on 13-01-2025:

Daporijo area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Daporijo-Basar line. 132 kV Ziro – Daporijo line tripped at 15:00 Hrs of 13- 01-2025. At 15:45 Hrs of 13-01-2025, 132 kV Daporijo-Basar line tripped resulting in GD in Daporijo area of Arunachal Pradesh Power System. Load loss of 3 MW occurred.



As per DR analysis, B-phase to E fault occurred in 132 kV Ziro-Daporijo Line at 15:00:13.363 Hrs and fault was cleared from Ziro on Z-1 within 57 msec, A/R successfully operated and Daporijo on Z-1 within 56 msec, A/R not attempted. At 15:43:18.118 Hrs, another R-Y fault occurred in 132 kV Basar-Daporijo line and fault was cleared from Basar on Z-1 operation within 80 msec. There was no\_tripping from Daporijo as radially connected.

#### Protection issues observed

- Reason for non-operation of A/R at Daporijo for Ziro line needs to be checked by DoP, AP and corrective actions may be updated.
- Fault location of 677.24 Kms from Ziro seems erroneous. The same need to be reviewed by POWERGRID by simulating the same fault with test kit.

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- The fault on 132 kV Basar-Daporijo line is of a Ph-Ph nature, there is likely clearance issue that required immediate attention. DoP AP is requested to investigate and update the root cause of tripping at earliest.
- Huge time drift of 2 mins in DR observed from Basar. Healthiness of GPS may be checked and time to be adjusted as per grid code.
- SOE not recorded for tripping of all the elements. The same needs immediate attention from DoP AP team for ensuring IEGC compliance.

#### As per 76th PCC minutes,

Regarding the AR issue at Daporijo, DoP Ar. Pradesh stated that Relay setting and AR logic are OK, so no apparent reason for the failure of AR was found. DoP AP informed that shutdown will be availed for checking of A/R logic at Daporijo for Ziro line in coordination with POWERGRID.

DoP AP informed that inspection of 132 kV Basar-Daporijo line has been done and no phase clearance issue has been found. They further informed that proper checking of conductor spacing will be conducted shortly. Regarding issue at Basar, DoP Ar. Pradesh informed that the substation is being maintained by Comprehensive team and they have been intimated regarding the issue. Regarding DR time drift at Basar, the same has been informed to Comprehensive team for rectification.

#### DoP AP may update the actions taken.

#### Deliberation of the sub-committee

DoP Ar.P. Updated, regarding the AR, that there is issue with pneumatic CBs, testing of the CBs will be done in next shutdown.

# C.9 Implementation of Uniform Protection protocol vis-à-vis review of protection settings

The Uniform Protection Protocol has been approved by 15<sup>th</sup> NPC on 14.11.24. As the protocol, review of protection setting of following power system elements have to be done -

- · Transmission Lines
- · ICTs and Reactors
- · Generators (Thermal, Gas, Hydro)
- · FACTS device
- · HVDC

RE source-based generation.

As the review of setting of above transmission elements are exhaustive such review of settings shall be done on individual basis by all PSC members.

In 73rd PCCM, NLDC (through VC) requested the forum to start reviewing the protection settings of the power system elements in compliance with the Uniform Protection Protocol. NERPC stated that a protection sub-group has been constituted in 71st PCCM for the purpose and the first meeting of the sub-group will be held shortly.

In 74<sup>th</sup> PCCM, Forum requested NERPC sub-committee (which has been formed to review setting of Protection protocol in NER) to review the settings of Tripura State power system and submit the report in next PCC meeting.

In 75<sup>th</sup> PCCM, NERPC informed that NERLDC has shared a google spreadsheet requiring details on reviewing of protection settings by every utility. It was further informed that once Tripura provides the required information, the meeting of the sub-committee will be held.

In 76<sup>th</sup> PCCM, NERLDC informed that Tripura is yet to provide the required details in the google spreadsheet. Forum exhorted Tripura to provide the details at the earliest so that review of settings can be done timely.

In 77<sup>th</sup> PCCM, NERLDC informed that Tripura is yet to provide the required details in the google spreadsheet. Forum exhorted Tripura to provide the details at the earliest so that review of settings can be done by next PCC meeting.

Tripura informed that the settings of substations of TPTL have been sent to NERPC and NERLDC on 25.02.2025. Forum noted the same and asked Tripura to provide data as required in google sheet also.

#### Tripura may update

### **Deliberation of the sub-committee**

Forum asked Tripura to update the protection settings in PDMS in coordination with M/s PRDC so that the coordination settings may be done. MS NERPC advised subcommittee (which has been formed to review setting of Protection protocol in NER) to review the settings of Tripura State power system and submit the report before PCC meeting.

# C.10 Status on resolution of protection issues as discussed in $77^{\rm th}$ and 76th PCCM

SN	Protection issues to	Concerned	Previous status	Latest status
	be resolved as	Utility		(78th PCCM)
	decided in 77 <sup>th</sup> and			
	76th PCCM			
1.	Spurious tripping of	NEEPCO	NEEPCO informed	NEEPCO to
	Bus coupler(132kV) at		that DR could not be	send the
	Kameng during the		captured as relay	settings within
	Grid Disturbance in		malfunctioned.	15 days
	Khuppi and Seppa		Further he stated that	
	areas of Arunachal		the relay will be	
	Pradesh Power System		replaced as and when	
	on 13-02-2025		next tripping occurs.	
			Forum opined that	
			there might be issues	
			with the settings of	
			Bus-coupler at	
			Kameng and asked	
			NEEPCO to send the	
			settings to NERPC and	
			NERLDC for vetting.	
2.	LDP on Rokhia-	TSECL	March'25	RoW issue
	N.Rokhia link			resolved. Work
				to be
				completed by
				next PCC
3.	Replacement of relay	NEEPCO	one panel has been	Done
	panels		replaced and the other	
	(electromechanical to		will be replaced in	
	numerical) at		next shutdown	
	AGTCCPP			

4.	BB protection stability	NEEPCO	that matter is being	Price offer
	test at Doyang		taken up with the	awaited from
			OEM (M/s ABB) and	ABB. ABB
			the test will tentatively	persons will
			be conducted in	come in end of
			April'25	May'25
5.	Modification of SPS	MePTCL	the revised scheme	Matter has
	Scheme related to the		has been shared with	been taken up
	outage of 132 kV		Mynkre S/S and will	with NERPSIP.
	Leshka –Khliehriat		be implemented by	Also,
	D/C after LILO at 132		March'25.	Protection
	kV Mynkre S/S			coupler is not
				present there,
				in talk with
				ABB
6.	Implementation of SPS	AEGCL	SPS will be	Done
	related to overloading		implemented in 2 <sup>nd</sup>	
	of 2x160 MVA 220/132		week of March'25	
	kV ICTs at BTPS			

#### Sub-committee noted as above

## C.11 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.

Status as updated by the utilities in the 78th PCCM -

S1.	TT4 *1*4 BY	Status update (78th PCCM)	
No.	Utility Name		
1	DoP Arunachal Pradesh	By Feb'25	
2	DEPL		
3	AEGCL	Standardized as per FOLD Working Group-3 report	
4	APGCL		
5	MSPCL	By Feb'25	
6	MePTCL	By Feb'25	
7	MePGCL	By Feb'25	
8	P&ED Mizoram	By Jan'25	
9	DoP Nagaland	Will update before next PCCM	
10	TSECL	By Feb'25	
11	TPGCL		
12	POWERGRID	Most are standardized. Internal review is ongoing and remaining will be done by Jan'25	
13	NEEPCO	Almost all standardized. The rest will be done by Feb'25	
14	NHPC	By Feb'25	
15	NTPC		
16	OTPC	Done	
17	NTL		
18	MUML		
19	KMTL		

All utilities are requested to provide an update on the status of uniform adoption of parameter standardization for Disturbance Recorder (DR).

NERLDC has prepared a google sheet with substation wise and feeder wise details of each state. All utilities are requested to update the status of DR parameter standardization in the google spreadsheet.

In 76<sup>th</sup> PCCM, NERLDC informed that only Meghalaya and MUML have updated the status in the google spreadsheet. Forum exhorted other utilities to update at the earliest.

### Deliberation of the sub-committee:

MS NERPC advised all the utilities that DR parameters are to be standardized in line the Uniform Protection Protocol. All utilizes to comply the direction and the matter will be taken in ensuing RPC meeting.

#### C.12 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.

As per 74th PCC minutes, Forum requested all the utilities to update the relay settings of 66 kV *and above elements in the PDMS portal at the earliest.* 

As per 75th PCC minutes, NERTS updated that they have started the process of updating the settings in PDMS. Forum requested all the utilities to update their settings in PDMS portal as well as the Google sheet prepared by NERLDC for updating relay settings within three months, i.e. by April'25.

NERLDC has prepared a google spreadsheet containing substations of each state. All utilities are requested to review and update relay settings in the google spreadsheet.

In 76th PCCM, Forum exhorted the utilities to update the relay settings in PDMS database as well as the google spreadsheet.

#### Deliberation of the 77th PCCM

All utilities except Powergrid are yet to start the updating of relay settings in PDMS. Forum directed all the utilities to complete the exercise at the earliest as any relay settings coordination exercise through PSCT tool requires updating of network and relay settings in the PDSM database. Further, the forum requested NERLDC to prepare a google spreadsheet utility and substations wise and take update regularly.

#### Utilities may update

Forum exhorted all the utilities to update the relay settings in the PDMS database within 2 months in coordination with M/s PRDC. MS NERPC informed that this matter will also be taken in next RPC meeting.

### C.13 Installation of line differential protection for short lines:

As per sub-regulation3 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	Status as per		
	(77th/76rd/75nd PCCM)	78th PCCM		
AEGCL	AEGCL updated that PSDF	Revised DPR submitted in		
	monitoring group has suspended	last month, Pending with		
	funding for LDP for 1 year. AEGCL	PSDF		
	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			
MSPCL	DPR under preparation, to be	DPR to be revised. State		
	submitted within one month.	funding being explored.		
MePTCL	LDP operation for 9 feeders.	Regarding OPGW		
	For Neighrims-NEHU line, waiting	installation, MePTCL		
	for dark fiber.	updated that DPR has		

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	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.	been prepared and sent to NLDC in Dec'24.  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	
P&ED Mizoram	Lines identified 132kV Khamzawl - Khawiva.	scheme.  DPR prepared and planning to do under	
	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.	SASCI (Special Assistance to States Capital investment)	
DoP Nagaland	LDP Doyang-Sanis line, LDR to be installed by NEEPCO.  NEEPCO stated that LDR is available with NEEPCO, however, healthiness of the OPGW link on the line has to be checked first.  DoP Nagaland updated that FOTE is present. NEEPCO updated that GE engineers will visit on 15th July.	done	
TSECL	Budhjungnagar. DPR to be	DPR has been sent to PSDF 7 months back. MS NERPC requested to send the revised DPR.	

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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.

MS, NERPC suggested to apply under PSDF

### Sub-committee noted as above

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# Annexure-I List of Participants in the 78<sup>th</sup> PCC Meeting held on 21.04.2025

SN	Name & Designation	Organization	Contact No.
1	Sh. Hibu Bama, EE (E ), TD No.II	Ar. Pradesh	08119858317
2	Sh. Safir Ahmed, Dy.Mgr, AEGCL	Assam	09859472631
3	Sh. Bibek Baruti, Dy.Mgr, AEGCL	Assam	07002238466
4	Sh. Hijam Chittan, Mgr, MSPCL	Manipur	08257098230
5	Sh. Ch Drin Warish Khan, Mgr, MSPCL	Manipur	09615350963
6	Sh. C. Chawnggzikpuia, SDO	Mizoram	08974770712
7	Sh. Vipin Kumar Azad, AE, SLDC	Mizoram	07085205665
8	Sh. A.Shullai, AEE, GSPSD, MePGCL	Meghalaya	07005379616
9	Sh. A.G.Tham, AEE, MRT, MePTCL	Meghalaya	09774664034
10	Sh. E.Limhachan Kikon, JE	Nagaland	09383234164
11	Sh. Alex E.Ngullie, JE, SLDC	Nagaland	08837080321
12	Sh. Krishnadhan Biswas, Sr. Mgr,TPTL	Tripura	09862478930
13	Sh. Amaresh Mallick, ED	NERLDC	09436302720
14	Sh. Neeraj Kumar, GM	NERLDC	09910907949
15	Sh. Utpal Das, Asst.Mgr	NERLDC	07005504075
16	Sh. Manash Jyoti Baishya, Ch.Manager	PGCIL	09435555740
17	Smt. M.Talukdar, GM	NEEPCO	09435339690
18	Sh. Manas Pratim Sharma, Sr.Mgr	NEEPCO	08729901871
19	Sh. Soham De,Shift-In-Charge	OTPC	09556557648
20	Sh. Ashim De, Dy.Mgr (E)	NHPC	09800284587
21	Sh. Sajeev Mohandas, AGM	NTPC	09496006403
22	Sh. Samriddhi Gogoi, Associate	INDIGRID	09101330587
23	Sh.Rabi S.Choubey, Engineer	PRDC	07278680271
24	Sh.Niranjan Rabha, Dy.Mgr	NETC	07002022736
25	Sh. Jyotirmoy Barman, Asst.Mgr	NETC	07002036191
26	Sh. K.B.Jagtap, Member Secretary	NERPC	-
27	Sh. Vikash Shankar, Asst.Director	NERPC	09455331756