



भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power उत्तर पूर्वी क्षेत्रीय विद्युत समिति

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

No.: No. NERPC/SE (O)/PCC/2025/ 3072 - 3113

November 21, 2025

To As per list attached

Sub: 85वीं संरक्षण समन्वय उप-समिति (पीसीसी) बैठक का कार्यवृत्त/ Minutes of 85th Protection Coordination Sub-Committee (PCC) Meeting

महोदय/महोदया,

कृपया 6 नवंबर 2025 को NERLDC कॉन्फ्रेंस हॉल, गुवाहाटी में हुई 85वीं पीसीसी बैठक के कार्यवृत्त को अपनी जानकारी और आवश्यक कार्रवाई के लिए प्राप्त करें। कार्यवृत्त एनईआरपीसी की वेबसाइट www.nerpc.gov.in पर भी उपलब्ध है।

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

Sir/Madam,

Please find enclosed herewith the minutes of the 85th PCC Meeting held at NERLDC Conference Hall, Guwahati on 6th November 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

निदेशक / Director

Encl: As above

Distribution List:

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

बी एन मुंचो / V N Munkha)

निदेशक / Director



Minutes of 85th PCCM

Govt. of India

Ministry of Power

North Eastern Regional Power Committee

Shillong

North Eastern Regional Power Committee

Minutes of

85th Protection Coordination Sub-Committee Meeting

Date: 06/11/2025 (Thursday)

Time: 13:30 hrs.

Venue: NERLDC Conference Hall, Guwahati

The list of participants is attached as annexure I

A. CONFIRMATION OF MINUTES

1. <u>CONFIRMATION OF MINUTES OF THE 84th PROTECTION SUB-</u>COMMITTEE MEETING OF NERPC.

Minutes of the 84th PCC Meeting held on 9th October, 2025 at BgTPP, NTPC, Bongaigaon was circulated vide letter No.: NERPC/SE (O)/PCC/2025/377-418 dated 23rd October 2025.

No comments were received from the constituents

Sub-committee confirmed the minutes of the 84th PCCM

B. ITEMS FOR DISCUSSION

B.1 Protection Audit of NER:

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

Description		Constituent	Responsibility	Timeline
			Shall conduct internal	Annually
			audit of protection system	
	Internal	All users	Audit report to be shared	Within 30
	Audit	(132kV and	with RPC	days of Audit
		above)	Action plan for	Within 30
			rectification of deficiencies	days of Audit
			to be shared 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	Same as above
			rectification 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

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audit	submitted to RPC by 31st	
plan	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 3rd party audit will be carried out by team constituted by NERPC at selected substations based on the criticality, analysis and requirement. In this regard, NERPC has already circulated an audit calendar and audit formats for reference of the constituents.

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

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

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

Status of Internal/External audit (84th PCCM)

Sr	Utility/	Internal Audit		External audit	
No	Constituents				
		Latest Status	report	Latest Status	report
1.	Ar. Pradesh	Audit of Lekhi		Planning and	NA
		will be done in		Tendering will be	
		September'25		done for audit of all 9	
		(Total		SS. Bid document	

		Substation: 09)		prepared and	
				proposal has been	
				put up to the	
				government for	
				funding approval.	
2.	Assam	12 completed.		Bid Document under	
		80% to be		preparation.	
		covered by		Meeting in	
		October and		October'25 with	
		100% by		AERC for tariff	
		Nov'25.		adjustment of the	
		(Total		cost of audit.	
		Substation: 82)			
3.	Manipur	Audit of 8 SS	Report for 8 SS	8 SS to be done,	NA
		done, rest to	submitted to	Schedule to be	
		done by end of	SLDC, to be	decided, subject to	
		Oct'25	submitted to	law and Order	
		(Total	NERPC and	situation.	
		Substation: 17)	NERLDC.	Audit of Yurembam	
				ss, Ningthounkong ss	
				and Imphal (PG)	
				done by NERPC in	
				Aug'25	
4.	Meghalaya	Audit of 8	Reports shared	Audit of 8	Report to be
		substations		substations done by	submitted.
		done, rest to		CPRI, 3 more to be	
		be done later.		done by October'25.	
		(Total		Remaining 5 will be	
		Substation: 22)		done later	
5.	Mizoram	Audit of		Audit of Kolasib,	
		Zuangtui done,		Aizawl, Melriat (PG),	
		others to be		Zuangtui and	
		done by end of		Luangmual to be	

		Oct'25.		done by end of	
		(Total		Oct'25 by NERPC.	
		Substation: 13)			
		,			
6.	Nagaland	Audit of 7	Report for 4	Audit of 5 SS to be	
		substations	shared, rest to	done in last week of	
		completed.	be shared in	Nov'25by NERPC.	
		(Total 11 S/s).	one month	For rest, to be	
				planned later.	
7.	Tripura	Will start audit		Offer received from	
		from Nov.25		CPRI and ERDA,	
		(Total		requested for offer	
		Substation: 18)		from CBIP and	
				PRDC.	
8.	Powergrid	22	Report for 8	Budgetary offer will	
	(NERTS)	Substations.	shared, 4 to be	be taken after SAS	
		Schedule given	shared	upgradation of Misa	
		to NERLDC.		and Balipara.	
		Audit of 12 SS			
		done		Audit of 5	
				substations done by	
				NERPC so far.	
9.	NTL	Audit of P K		Feb, March'26	
		Bari and S M			
		Nagar to be			
		done in Oct'25.			
		No further			
		update as			
		utility was			
		absent in the			
		meeting			
10	KMTL	Audit of New	Report to be	Finalizing the	
		Kohima SS will	shared next	auditing party. Will	
		be done by	month	be done by Oct'25.	

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		Sep'.			
		No further			
		update as			
		utility was			
		absent in the			
		meeting			
11	MUML/NBTL	No		No representative	
		representative			
12	NEEPCO	Internal audit		Tendering done for	
	(Total	plan for FY	Audit report of	Kameng and Turial.	
	Substation:	2025-26 has	Kopili to be	PRDC emerged as L1	
	10)	been shared.	shared next	bidder, contract to be	
		Audit of Kopili	month	awarded next week.	
		done. Audit for		For AGBPP, offer	
		rest stations		received from CBIP,	
		may deviate a		CPRI and PRDC.	
		little from the			
		original			
		schedule			
13	OTPC	For FY 2025-		Done in 2024	shared
	(Palatana)	26, to be done			
		on 6 th Sep'25			
14	NTPC	For FY 2025-		Done (by CPRI)	Complete
	(BgTPP)	26, to be in		during 2024. 3 audit	Report
		Dec25		recommendation	shared.
				compliance pending.	Action plan
					shared.
15	NHPC	To be done in		Done	Report to be
	(Loktak)	Sep-oct'25			shared
					shortly
16	APGCL	No representativ	e	1	1
17	TPGCL				
18	MEPGCL	Schedule	Report of	Budgetary offer	
		submitted to			
			7		

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		NERLDC. Audit	Umtru, New	received from CPRI
		of Umtru, New	Umtru will be	and PRDC. Waiting
		Umtru done in	shared next	for offer from CBIP
		July'25.	week.	
		Internal audit		
		of Umiam Stg-	Report of	
		I&II done	Umiam Stg I	
			and II	
			submitted	
19	Dikshi HEP	Audit to be		DoP Ar. Pradesh
	(IPP)	done in Oct'25.		transmission division
		No further		has written a letter to
		update as		the plant, reply still
		utility was		awaited.
		absent in the		
		meeting		

Deliberation

Status as updated by the utilities in the meeting

Sr	Utility/	Interna	al Audit	External audit	
No	Constituents				
		Latest Status	report	Latest Status	report
1.	Ar. Pradesh	Audit of	Report for	Planning and	NA
		Daporijo done	Daporijo will be	Tendering will be	
		in October'25.	shared shortly	done for audit of all 9	
		Audit of Lekhi,		SS. Bid document	
		Khuppi and		prepared and	
		Tenga will be		proposal has been	
		done in		put up to the	
		November'25		government for	
		(Total		funding approval.	
		Substation: 09)		Audit of 3	
				substations done y	
				NERPC in	
				Aug/Sep'25	
2.	Assam	80% of the		Bid Document under	
		substations		preparation.	

		done and 100% by Nov'25. (Total Substation: 82)		A letter has been written to AERC for tariff adjustment of the cost of audit.	
3.	Manipur	completed (Total Substation: 17)	Report for 8 SS submitted to SLDC, to be submitted to NERPC and NERLDC.	Schedule to be	NA
4.	Meghalaya	Audit of 17 substations done, 3 substations are new and audit of these will be done next year (Total Substation: 22)	Reports by end of Nov'25	Only 2 substations left for audit, rest done (except for the new substations)	Report for 5 substations to be submitted by this month.
5.	Mizoram	Audit of 3 substations done (including Zuangtui) (Total Substation: 13)		Audit of Kolasib, Aizawl, Melriat (PG), Zuangtui and Luangmual were done by by NERPC in October'25.	

6.	Nagaland	Audit of 10 substations completed. Rest of the substations will be audited by Dec'25(Total	Report for 4 shared, rest to be shared in one month		
		11 S/s).			
7.	Tripura	Will start audit from Nov.25 (Total Substation: 18)		ERDA has emerged lowest bidder for the audit, necessary procedures are being done for awarding the contract for auditing	
8.	Powergrid (NERTS)	Substations. Schedule given to NERLDC. Audit of 14 SS done	Report for 12 shared, 2 to be shared	Budgetary offer will be taken after SAS upgradation of Misa and Balipara. Audit of 7 substations have been done by NERPC so far.	
9.	NTL	Audit of P K Bari and S M Nagar to be done in March'26.		Feb, March'26	
10	KMTL	Audit of New Kohima done in Sep'25.		Finalizing the auditing party. Will be done by Oct'25. No further update as	

				utility was absent in	
				the meeting	
11	MUML/NBTL	No		No representative	
		representative			
12	NEEPCO	Internal audit		Order for Kameng	
	(Total	plan for FY	Audit report of	has been placed to	
	Substation:	2025-26 has	Kopili	M/s PRDC. Turial	
	10)	been shared.	submitted	and AgBPS placed to	
		Audit of Kopili		CPRI. Kopili and	
		done. Audit of		Khandong generators	
		thermal		and CRPs have been	
		stations to		recommissioned	
		start shortly		recently so they will	
		while audit for		be audited next year.	
		Hydro plants			
		will be done in			
		lean hydro			
		season			
13	OTPC	Done in	shared	Done in 2024	shared
	(Palatana)	October'25			
14	NTPC	For FY 2025-		Done (by CPRI)	Complete
	(BgTPP)	26, to be o 19 th		during 2024. 3 audit	Report
		Dec25		recommendation	shared.
				compliance pending,	Action plan
				will complete the	shared.
				compliance by Nov'26	
15	NHPC	To be done in		Done by PRDC in	Report to be
	(Loktak)	Dec'25		Sep'25	shared
					shortly
16	APGCL	No representativ	re		
•					
17	TPGCL				
18	MEPGCL	All done	All reports	Budgetary offer	
			shared	received from CPRI,	
_					

			CBIP and PRDC.	
			Financial approval	
			from higher	
			authorities pending	
19	Dikshi HEP	Audit to be	Feb'26	
	(IPP)	done in		
		Nov'25.		

B.2 Analysis and Discussion on Grid Disturbances which occurred in NER grid in October'25 in compliance with IEGC 2023:

TABLE 8: REPORT SUBMISSION TIMELINE

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

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

The forum may deliberate upon the GD/GI/near miss events that occurred in October 2025 based on the draft report prepared by NERLDC.

Deliberation

NERLDC apprised that 22 number of GDs occurred in October'25 out of which 19 occurred due to radial nature of the network. Protection system related issues observed at Tipaimukh, Kolasib, Tuirial, Umrangshu, Sanis areas of NER. The GDs have been put for discussion in further agenda items.

B.3 Status of submission of FIR, DR & EL outputs for the Grid Events for the month of Oct'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 of tripping of transmission elements in Tripping Monitoring Portal for events from 01-10-2025 to 27-10-2025 as on **27-10-2025** is given below:

Owner Name	Total No of FIR/DR/ EL/TR to be submitte d(SEND+ REND)	FIR		DR		EL	
		Total Furnish ed in 24hrs	Total furnishe d %	Total Furnish ed in 24hrs %	Total furnis hed %	Total Furnis hed in 24hrs	Total furnish ed %
AEGCL	18	5.56%	83%	5.56%	83%	83%	83%
DoP, Arunachal Pradesh	9	55.56%	100%	77.78%	100%	22%	100%
DoP,		0%					
Nagaland	10		100%	0%	90%	50%	100%
		0%				66.67	
MePGCL	3		100%	33%	100%	%	100%
MePTCL	8	87.5%	87.5%	87.5%	87.5%	37.5%	87.5%
MSPCL	17	18%	59%	18%	59%	18%	59%
MUML	1	0%	100%	100%	100%	100%	100%

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NEEPCO							
Generation	14	43%	93%	43%	79%	36%	79%
NEEPCO							
Transmissio							
n	18	78%	94%	78%	94%	39%	94%
NHPC	5	20%	40%	20%	80%	60%	80%
NTL	5	40%	80%	40%	80%	40%	80%
OTPC	2	50%	100%	50%	100%	50%	100%
P&ED,							
Mizoram	11	55%	100%	55%	91%	36%	91%
POWERGRID	42	69%	88%	79%	88%	17%	88%
TSECL	5	40%	100%	40%	80%	40%	80%

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

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

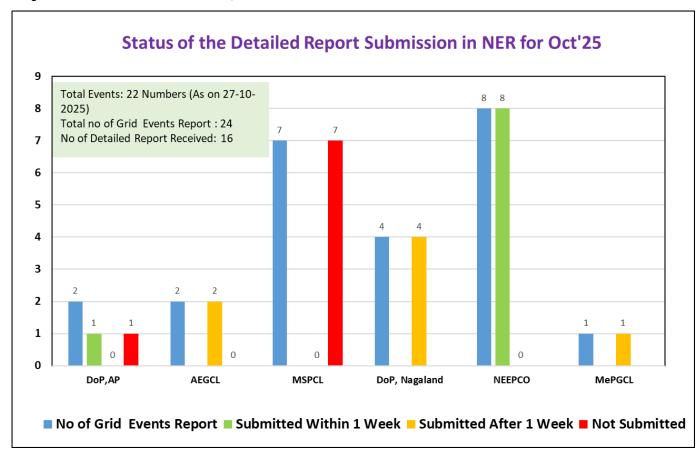
Deliberations:

NERLDC reported that Manipur's submission percentage for October 2025 is around 60%. The overall FIR, DR, and EL submission for the NER region stands above 90% for the same period.

The Forum also reminded utilities to priorities the submission of FIR/DR/EL within 24 hours for multiple-element trippings and GD events to facilitate faster root-cause analysis.

B.4 Submission of Detailed Report by User/SLDC as per IEGC-2023:

As per IEGC-2023, all User/SLDCs are requested to prepare and share **Flash Report** and **Detailed Report** with **NERLDC** and **NERPC** following any Grid Events as per the timeline mentioned in the cl 37.2(f). Status of submission of the Detailed Report for the month of **Oct**, **2025** as on **27-10-2025** is shown below:



MSPCL has not submitted all detailed report of grid event occurred during Oct'25. All the utilities are requested to promptly share all the necessary information such as FIR, DR, EL and Reports (Flash Report & Detailed Report) as per the specified timeline mention in the Grid Code-2023.

Members may discuss.

Deliberations:

NERLDC highlighted Manipur's non-compliance for October 2025 and noted multiple GD events in the Manipur system. Detailed reports were received for 16 out of 24 events.

The Forum emphasized the following:

Although the number of submissions has increased, many reports still lack proper event analysis, clear identification of root causes, and details of planned or implemented remedial actions.

All utilities must ensure timely submission of comprehensive reports in accordance with the Grid Code.

B.5 Mock Testing of System Protection Scheme (SPS):

As per Clause 16.2 of IEGC-23, for the operational SPS, RLDC or NLDC, as the case may be, in consultation with the concerned RPC(s) shall perform mock testing for reviewing SPS parameters & functions, at least once in a year. RLDC or NLDC shall share the report of such studies and mock testing including any short comings to respective RPC(s).

The list of the remaining ISTS scheme need to be tested are listed below:

S1.	Name of SPS	Operation in	Tentative date of
No.		FY 2025-26	performing mock
			testing
1	SPS related to reliable power	-	
	supply to Arunachal Pradesh &		SPS to be kept OFF.
	Assam through the 132 kV Roing-		AEGCL to coordinate
	Chapakhowa D/C line		with APDCL along
			with other schemes
			at Assam
2	Overloading of any one of the	-	
	400/132kV, 2x360 MVA ICTs at		Nov'25
	Panyor Lower Hydro Power		
	Station		
3	Related to the safe evacuation of	-	Performed on 16 th
	power from BgTPP(NTPC)		Oct'25 (Report yet to
	generation		be finalised)
4	Outage/tripping of 400 kV New	-	
	Kohima – Imphal D/C Line		Nov'25
5	Outage/ tripping of both circuits	-	Performed on 14 th
	of 400 kV SM Nagar(NTL) -PK		Oct'25 (Report shared
	Bari(NTL) D/C Line		with NERPC)
6	Outage/ tripping of both circuits	-	Performed on 13 th
	of 400kV PK Bari (NTL) –		Oct'25 (Report shared
	<u> </u>	16	

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	Silchar(PG) D/C Lines		with NERPC)
7	Outage/tripping of both 400/132	-	
	kV, 2x125 MVA ICTs at Palatana		Nov'25
8	Outage/tripping of 400kV	-	After the
	Palatana-Silchar D/C Line when		commissioning of the
	both modules of Palatana are in		400 kV Palatana–
	service		Surajmaninagar(NTL)
			I Line, the SPS is
			deactivated. However,
			the SPS at Palatana
			must remain active
			during the shutdown
			of the 400 kV
			Palatana–
			Surajmaninagar
			(ISTS) Line-1.
			Tentative date to be
			intimated after
			discussion by NERTS

The list of the remaining state scheme needs to be tested are listed below:

S1.	Name of SPS	Actual	Tentative date of
No.		Operation	performing mock
			testing
1	Overloading of 220 kV BTPS -	-	As per 82 nd PCC,
	Salakati D/C Line		AEGCL is not
2	Outage/tripping of 220 kV Azara-	-	agreeing to test
	Sarusajai D/C Line		without actual load
3	SPS related to tripping of 220 kV	-	shedding, as this
	Misa- Samaguri DC Line		may require

4	SPS at BTPS(Assam) substation	- disconnection of
	related to overloading of any of	multiple hard
	the 2x160 MVA ICTs at	wirings. Forum
	BTPS(Assam)	agreed with the
		proposal and
		requested AEGCL to
		prepare SOP for
		mock testing.
		In 83 rd PCC, AEGCL
		informed that SOP
		for mock testing will
		be shared shortly.
		In 84th PCC, AEGCL
		requested NERLDC
		to write email for
		ensuring
		coordination APDCL
		wrt to the load
		shedding due to SPS
		mock testing.
		In 85th PCC, AEGCL
		informed they are
		coordination with APDCL
		to get permission of load
		shedding during the mock
		testing of the SPS at
		Assam.
5	SPS related to Outage/tripping of	-
	any one circuit of the 132 kV	
	Khliehriat (PG)- Khliehriat D/C	Performed on 29 th
	line	Oct'25

6	SPS related to Outage/tripping of	-	
	any one circuit of 132 kV Leshka		Revised for Nov'25
	-Mynkre- Khliehriat D/C Line		

All the respective utilities are requested to provide the tentative dates for mock testing of SPS to be conducted in FY 2025-26.

Utilities are requested to share the draft SOP's for the mock testing of SPS scheme scheduled during Nov'25.

B.6 <u>Mapping of SPS in the SCADA Display for real time monitoring of all</u> 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	STATUS:	
			Enable/Disable,		
			Operated/No	Operated	
			(Condition/Logic	(Condition/Logic Wise)	

Present Status of SPS mapping in SCADA Display

27-Oct-2025 13:31:05 SPS STATUS & OPERATION

STATION	SPS	SPS ON/OFF	SPS OPTD.
BGTP P_NTPC	BGTPP U-3	ON	NRML
	SPS-2 Bangladesh	ON	NRML
	SPS-4 Bangladesh	ON	NRML
PALATANA_OTPC	SPS -2 HSR	OFF	NRML
	SPS -3 HSR	OFF	NRML
ZI RO_PG	ZIRO SPS	OFF	NRML
SARUSAJAI_AS	SARUSAJAI SPS	SOFF	SNRML
IMPHAL_PG	IMPHAL SPS	ON	NRML
SM NAGAR (ST)	SM NAGAR B/R -1 SPS	ON	NRML
SM NAGAR (ST)	SM NAGAR B/R -2 SPS	ON	NRML
PK BARI (ST)	PK BARI B/R -1 SPS	ON	NRML
PK BARI (ST)	PK BARI B/R -2 SPS	ON	NRML
TINSUKIA (AS)	TINSUKIA SPS	SON	SNRML
BONGA AS	SPS Stage -1	ON	NRML
DONGA_AS	SPS Stage -2	ON	NRML
MONARCHAK	MONARCHAK	OFF	NRML

NER SPS DOCUMENT

		SPS mapping status in		
S1. No.	SPS under operation	SCADA (YES/No) as per		
		85 th PCCM		
		NO		
1	SPS related to outage of 220 Misa-Samaguri	AEGCL informed that the OEM		
	D/C lines	supports taken for the RTU.		
		Mapping will be done shortly		
		NO		
2	Related to outage of any one circuit of 220	AEGCL informed that the OEM		
2	kV Balipara-Sonabil D/C lines	supports taken for the RTU.		
		Mapping will be done shortly		
		YES		
	Related to the outage of any one circuit of	On 24-oct-25, mapped in		
3	the 132 KV Khliehriat (PG)- Khliehriat D/C	the real time NERLDC		
	line	SCADA		

		YES
4	Related to outage of any one circuit of 132	On 24-oct-25, mapped in
'1 	kV Leshka – Mynkre-Khliehriat D/C	the real time NERLDC
		SCADA
		NO
5	Related to 132kV SM Nagar(ISTS) - SM Nagar	Mapping already available at
	line to prevent Overloading	SLDC. NERLDC to cordinate
		with the SLDC Tripura
6		YES
	SPS related to overloading of 2x160 MVA	SPS mapping is done in
	220/132 kV ICTs at BTPS	NERLC SCADA. However,
	220) 102 KV 1010 at B11 5	AEGCL may confirm the
		wiring.
7		YES
	SPS related to overloading 2X315MVA	On 24-oct-25, mapped in
	400/220kV ICTs at Mirza	the real time NERLDC
		SCADA
8		NO
		As per NHPC, SCADA
		system is not available at
	SPS related to generation evacuation from	Loktak. Mapping of SPS at
	Loktak HEP	Loktak HEP will take time
		& it will be completed
		after renovation work at
		Loktak plant.

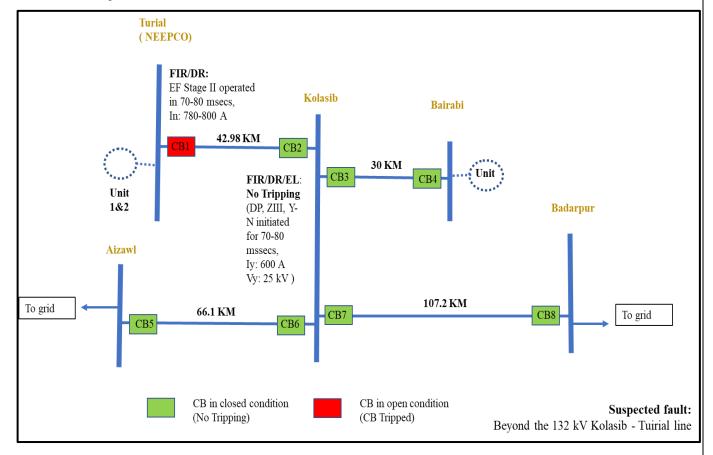
All utilities are requested to update the status of Mapping of SPS in the SCADA Display.

B.7 Repeated tripping of 132 kV Kolasib – Tuirial line on 14th Oct'25:

 $132~\mathrm{kV}$ Kolasib–Tuirial line tripped three times on 14.10.2025 at $05:47~\mathrm{hrs},\,07:34~\mathrm{hrs},\,$ and $08:09~\mathrm{hrs}$ respectively.

As informed by Tuirial, the 132 kV Tuirial–Kolasib line breaker at the Tuirial end tripped due to Earth Fault (E/F), which reportedly occurred during the charging of the Bairabi line from the Bawktlang end, as conveyed by Kolasib Substation.

Event Analysis based on the available DR & EL:



The 132 kV Kolasib-Tuirial line tripped at the Tuirial end on operation of Backup Earth Fault (EF) Stage II within 70–80 milliseconds, with a neutral current (In) of 780–800 A in all three instances.

No tripping was observed at the Kolasib end.

The Disturbance Recorder at Kolasib captured the fault as DP, Zone III, Y–E, 595 A for 70–80 msecs, indicating the fault was in the forward direction of Kolasib and not in the reverse direction as initially reported (Bairabi line).

In conclusion, the suspected fault appears to be beyond the 132 kV Kolasib-Tuirial line, most likely in the reverse direction of Tuirial, as the main protection (Distance Relay) at Tuirial did not detect any forward-direction fault.

The tripping at Tuirial end seems to have been initiated by EF Stage II, which appears to be non-directional.

Action Points for Tuirial HPS:

- 1. Tuirial HPS is requested to check the Main Relay (P442) and share the following for all trippings on 14.10.2025 in the email id nerldcso3@gmail.com: DR files: (.dat & .cfg) & Event logs: (.evt)
- 2. DR standardization is required at Tuirial end in the backup relay. Please ensure the following signals are recorded: Any Start, Any Trip, Circuit Breaker (CB) Open/Close Status, OC Stage I Start & Trip, EF Stage I Start & Trip, OC Stage II Start & Trip and EF Stage II Start & Trip.
- 3. A time drift of approximately 31 minutes has been observed in the backup relay at Tuirial which needs to be synchronized with GPS.
- 4. Share the Single Line Diagram (SLD) of Tuirial Substation for better understanding and analysis.
- 5. EF Stage II settings not recommended as per NER protection philosophy. Hence, the same may be removed at Tuirial end.

Action Points for P&ED, Mizoram:

- 1. Mizoram is also requested to share details of any fault or tripping recorded on lines emanating from Kolasib Substation, along with the Disturbance Recorder (DR) files of the backup relay for all the trippings on 14.10.2025 for correlation and further analysis.
- 2. Backup OC Stage I protection found non-directional in Main relay at Kolasib for Turial feeder. The directionality should be made forward to avoid any unwanted Main (P442) relay operation.
- 3. Any Pole Dead (L/H) & All Pole Dead (L/H) to be incorporated for generation of DR in the Main (P442) relay at Kolasib end.

Deliberation

NEEPCO informed that the fault was in forward direction. Forum noted that from DR and Kolasib end no other CB had operated indicates that the fault was behind the Turial end.

Regarding the EF stg II at Turial end for Kolasib line, NEEPCO stated that EF stg II has been provided in the line as the line is radial from Turial end and to prevent overloading of the generator for longer duration. He further informed that there is no time delay in the EF stg II. Also, he informed that CPRI will be conducting protection audit of the station in Dec'25 and they will review the settings.

NERLDC highlighted the High set at Tuirial caused tripping of the line on 4th Nov'25 (08:45 Hrs & 09:31 Hrs) during the fault in 132 kV Kolasib – Badarpur line. However, ZIII pickup at Kolasib during reverse fault is the matter of investigation.

The forum requested NEEPCO to introduce a delay of 200 msec in the EF stg II for the Turiial-Kolasib line at Tuirial end. The performance will be monitored & necessary action may be taken according. Additionally, requested to standardize the DR & ensure DR time synch with the GPS.

B.8 Grid Disturbance in Umrangshu area of Assam on 14th Oct'25:

Umrangshu area of Assam Power System was connected with rest of NER Grid through 132 kV Haflong – Umrangshu Line and 132 kV Khandong – Umrangshu Line.

At 17:08 hrs of 14.10.2025, both the lines tripped resulting in GD at Umrangsho area of Assam Power System.

S1 no	Name	Trip time	Restoration time	Relay End 1	Relay End 2
1	132 kV Haflong – Umrangshu Line	17:08 Hrs	17:44 Hrs	No tripping	DC power failure
2	132 kV Khandong – Umrangshu Line	17:08 Hrs	17:44 Hrs	No tripping	DC power failure

As per the FIR, both the ISTS line affected due to DC power failure at Umrangshu SS of Assam.

Hence, AEGCL is requested to share the root cause for DC failure and submit the detailed report for the event as per the IEGC.

Deliberation

AEGCL informed that firstly MCB of the DCDB had tripped and on switching the MCB, a trip signal was sent spuriously, due to some flaw in the logic of the DCDB, to the feeders and the they got tripped. Forum urged AEGCL to rectify the logic issue at the earliest.

Additionally, forum raised the concern of the availability of single DC supply at Umrangshu SS and requested to ensure 2 numbers of 220 V or 110 V DC source for 132 kV & above SS. Also, requested NERLDC to share google sheet to track the substation wise availability of redundant DC supply.

Link:

https://docs.google.com/spreadsheets/d/1aItYbMoFVUr4FDrLY4sdZP4qOI6LayVe-PpyUHIC4Rc/edit?gid=0#gid=0

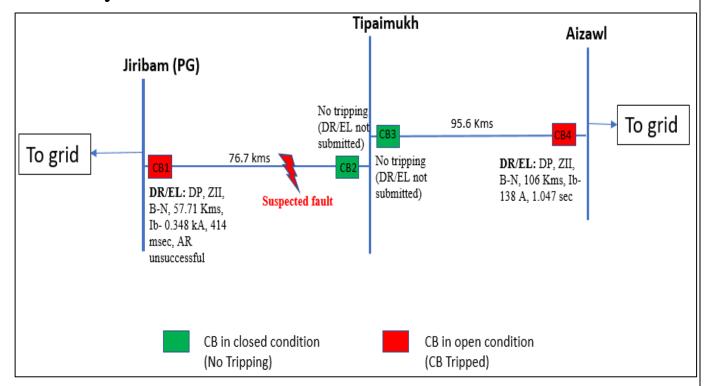
B.9 Grid Disturbance in Tipaimukh area of Manipur on 10th Oct'25:

Tipaimukh area of Manipur Power System was connected with rest of NER Grid through 132 kV Aizawl - Tipaimukh Line and 132 kV Jiribam - Tipaimukh Line. At 21:01 hrs of 10.10.2025, both the lines tripped resulting in GD at Tipaimukh area of Manipur Power System.

S1	Name	Trip	Restoration	Relay	Relay
no		time	time	End 1	End 2
1	132 kV Aizawl - Tipaimukh Line (Length: 95.6 KM)	21:01	22:03	DP, ZII, B-N, FD: 106 KM, Ib: 138 AMP	No tripping (DR & EL not submitted)
2	132 kV Jiribam - Tipaimukh Line (Length: 76.7 KM)	21:01	13:00 Hrs of 13-10-2025	DP, ZII, B-N, FD: 57.71 KM, 0.3487 KA; AR	No tripping (DR & EL not submitted)

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	unsuccessful						

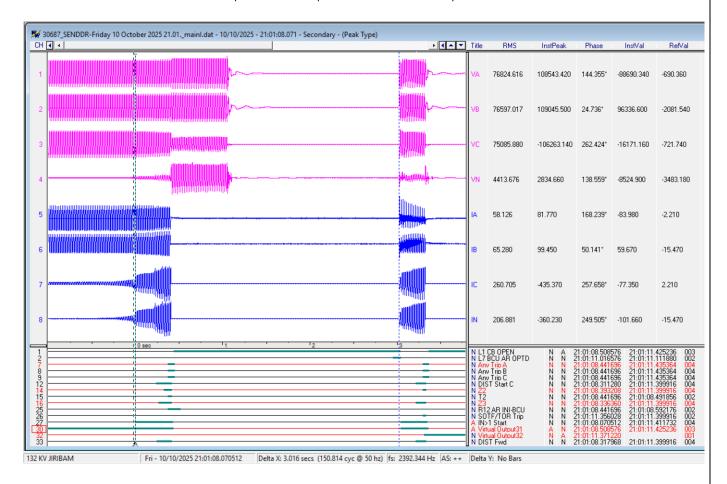
Event Analysis based on DR & EL:



For 132 kV Aizawl - Tipaimukh Line: High resistive fault of slowly growing fault current cleared by the Main protection in DP, ZII, B-E. Total fault duration is of 1047 msecs.

For 132 kV Jiribam - Tipaimukh Line: High resistive fault of slowly growing fault current cleared by the Main protection in DP, ZII, B-E in 83 msecs. Total fault duration is of 414 msecs. AR operated after 2.5 seconds and tripped again in 310 msecs.

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The root cause could not be concluded from the above analysis without the DR & EL of Tipaimukh end.

MSPCL is requested to share the same & inform the CB status observed during the event at Tipaimukh.

However, it seems the fault was in the 132 kV Jiribam- Tipaimukh line.

NERTS is requested to confirm the actual fault location. Also, requested to share the reason for AR operation for ZII fault without carrier received.

Deliberation

NERTS apprised that the fault occurred in the Jiribam-Tipaimukh line due to vegetation infringement from outside the line corridor.

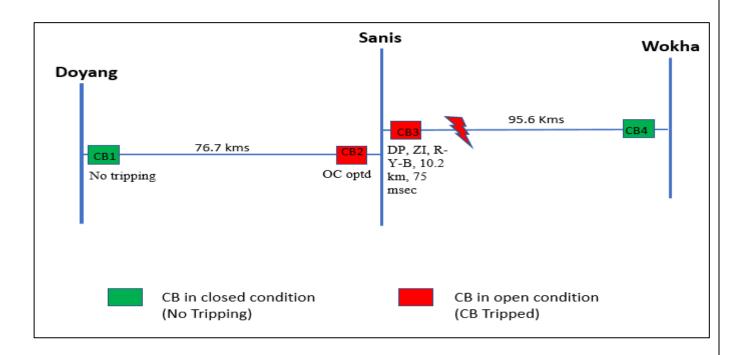
NERLDC informed that the operation of CB2 (Tipaimukh end) was not clear as no DR and EL were submitted by MSPCL.

MSPCL informed that the CB2 had operated correctly on 17th and 21st October'25. However, there may be some issue with the settings.

Forum requested MSPCL to send the settings of Jiribam-Tipamukh line from Tipaimukh end to NERPC and NERLDC for analysis.

B.10 Grid Disturbance in Sanis & Wokha area of Nagaland on 8th Oct'25:

Sanis and Wokha areas of Nagaland Power System are connected with rest of NER Grid through 132kV Chiephbozou-Wokha line and 132kV Doyang-Sanis line. At 14:20 Hrs of 08-10-2025, 132 kV Doyang-Sanis line and 132kV Sanis-Wokha line tripped. Due to tripping of these lines, Sanis and Wokha areas of Nagaland Power System were isolated from NER Grid.



Before the event, Sanis & Wokha areas are radially feeding via 132 kV Doyang-Sanis-Wokha line.

As per DR analysis for Sanis end of 132 kV Wokha – Sanis line, metallic fault in RYB (Ir-4.2 kA, Iy-3.8 kA, Ib:3.8 kA) initiated at 14:19:11.826 Hrs which was cleared 75 msecs from Sanis on operation of DP, ZI.

132 kV Doyang-Sanis line tripped from Sanis end. As per the submitted EL (main relay) for Sanis end, no tripping command issued by the main protection. DR&EL for backup relay not shared by DoP, Nagaland.

Protection issues observed:

• Tripping of 132 kV Doyang-Sanis line from Sanis end for fault beyond the line (reverse direction) seems unwanted.

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DR downloading facility need to be implemented at Siemens make backup relay

at Sanis.

During, 83rd & 84th PCC Meeting forum suggested to check the CT polarity for

Sanis Substation. However, no action has been taken by DoP Nagaland which a

matter of serious concern.

Deliberation

DoP Nagaland updated that they will check the CT polarity at Sanis substation

within a fortnight. MS NERPC strongly urged DoP Nagaland to rectify the issue as

it is causing multiple GDs and they been consistently delaying the rectification

work.

B.11 Multiple GD event at Kohima & associated areas during Oct'25:

132kV Wokha-Chiphebozou line was under outage from 13:26 Hrs on 30.09.2025

after the Tower collapsed at Longsa Village between Wokha & Chiphebozou.

Additionally, frequent tripping in 132 kV Dimapur - Kohima resulted into the

radial operation of Kohima from the Kohima – Karong – Gamphazol - Imphal link

connecting Manipur power system.

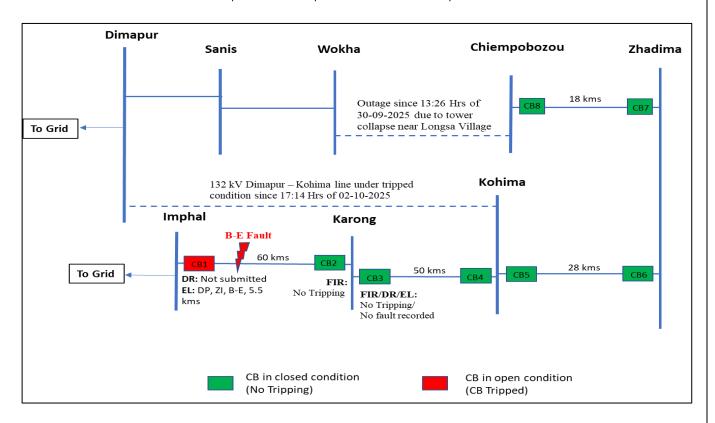
Event I:

Time: 22:09 Hrs of 02-Oct-2025

Load Loss: 20 MW;

Generation Loss: 21 MW;

29



At 17:16 Hrs on 02.10.2025, 132kV Dimapur - Kohima tripped at Kohima end on B-Phase, Z-1.

At 22:09 Hrs of 02-10-2025, metallic fault appears in the 132 kV Imphal - Karong line which tripped on operation of DP, ZI, B-E, FD: 5.5 kms within 62 msecs at Imphal end resulted into the GD in Karong area of Manipur and Kohima, Zhadima and Chiephobozou areas of Nagaland power system.

Event II:

Time: 21:32 Hrs of 08-10-2025

Load Loss: 25 MW;

Generation Loss: 19 MW;

At 21:31 Hrs of 08-10-2025, 132 kV Dimapur (PG) – Kohima line tripped due to L-L fault on operation of DP, ZI, R-B fault from both the ends. AR not operated from Kohima end.

At 21:32 Hrs of 08-10-2025, metallic fault appears in the 132 kV Imphal - Karong line which tripped at Karong end on overcurrent resulted into the GD in Karong area of Manipur and Kohima, Zhadima and Chiephobozou areas of Nagaland power system.

DoP, Nagaland is requested to ensure the following for the reliability of the capital area:

- 1. Ensure healthiness of the 132 kV Dimapur Kohima line by clearing tree/vegetation urgently.
- 2. Expedite the restoration of 132kV Wokha Chiphebozou line (under outage from 13:26 Hrs on 30.09.2025 after the Tower collapsed at Longsa Village). Also, share the present status.

Deliberation

Regarding the Wokha-Chiepobozou line, DoP Nagaland informed that a tower has collapsed near Longsa village. Forum strongly requested to revive the line using ERS at the earliest to ensure reliability of the network. For ERS, Forum requested DoP Nagaland to take up the matter with Powergrid.

Forum also exhorted DoP Nagaland to ensure healthiness of the 132kV Dimapur-Kohima line by clearing tree/vegetation urgently.

B.12 SPS Operation for Overloading of 132 kV S. M. Nagar (NTL) – S. M. Nagar (TPTL) Line:

The System Protection Scheme (SPS) was implemented to prevent overloading of the 132 kV S. M. Nagar (NTL) – S. M. Nagar (TPTL) line when the loading exceeds 450 A (approximately 100 MW).

On 21-Oct-2025, during the shutdown of the 132 kV S. M. Nagar (NTL) – Budhjungnagar line, the SPS operated twice, at 16:55 hrs and 17:09 hrs, respectively, due to overloading of the 132 kV S. M. Nagar (NTL) – S. M. Nagar (TPTL) line up to 105 MW. As a result, a load reduction of 14 MW was initiated at the S. M. Nagar (TPTL) substation.

Only a few details shared with NERLDC after the reconductoring of the line with HTLS ACCC Pune. As HTLS conductor will carry upto 800 A, the required load shedding may not be required for future.

Therefore, TPTL is requested to intimate the status of FTC of the above line and update the bay loading capabilities so that the existing SPS scheme can be

reviewed and removed from the system. Additionally, main and backup relay settings for both ends of the line may please be shared with NERLDC.

Deliberation

Tripura informed that the SM Nagar-SM Nagar line has been reconductored with HTLS conductor with 800Amp rating. Further, he informed that the CTs at state ends is of 600Amp rating, which will be replaced with 800 Amp rating CT shortly. CT ratio at NTL end is 800:1. In light of the above information forum opined that the current threshold for triggering the SPS may be increased to 600 AMP (140MW).

Forum directed TSECL and NERLDC to increase the current setting for the SPS.

B.13 Tripping of 132 kV Roing - Chapakhowa 1&2 Line on 6th Oct'25:

SI	Name	Trip	Restoration	Relay	Relay
no		time	time	End 1	End 2
1	132 kV Roing – Chapakhowa I line	10:51	22:03	EF, B-E operated in 890 msecs, DT sent; In: 150 A	EF initiated for 890 msecs, In: 152 A, tripped on DT received
2	132 kV Roing – Chapakhowa I line	10:51	13:00 Hrs of 13-10-2025	EF, B-E operated in 890 msecs; DT sent; In:150 A	EF initiated for 890 msecs, In: 152 A, tripped on DT received

Event analysis:

B-E fault changes to RBE after 315 msecs and detected by the backup relay at both the ends indicates the fault within the line.

However, as per FIR submitted by NERTS, the reason for tripping informed as the blasting of R-ph station transformer at chapakhowa end.

Hence, AEGCL is requested to share the root cause for the trippings of both the circuits. Also, EF directionality needs to be reviewed at Chapakhowa end in case the fault is in the reverse direction.

Deliberation

AEGCL informed that fault occurred in downstream of the line at the Chapakhowa end and the fault should have been cleared at downstream level itself. Forum requested AEGCL to ensure downstream protection coordination at the Chapakhowa SS. Regarding the pick-up EF for backward fault PowerGrid informed that the relay is of old version and the EF protection will just see the fault and will not trip.

B.14 Review of SPS Functionality for NTPC Bongaigaon during Guwahati Islanding Operation:

NTPC Bongaigaon (3×250 MW) is a participating generator under the proposed Guwahati Islanding Scheme, intended to sustain essential loads of Guwahati and nearby areas during major grid disturbances. As per the existing SPS configuration, the scheme arms at 600 MW generation level in case of both 400 kV lines from Bongaigaon tripping, with a total islanding capability of around 662 MW.

During the review of the Guwahati Islanding Technical Specification, NTPC, vide email dated 23.10.2025, shared observations suggesting that the interaction between the existing SPS and the islanding logic needs detailed evaluation. It is to be assessed whether the SPS should remain active during island formation or be temporarily disabled to prevent inadvertent tripping of generating units under islanded conditions. If disabling is required, the methodology—manual or automatic blocking via islanding controller—should be defined. If SPS functionality does not adversely affect islanded operation, the same may be agreed upon by the forum. It is proposed.

Deliberation

NERLDC highlighted there is no requirement of disabling the SPS at NTPC after the formation of Island. As tripping of second 400 kV BgTPP – Bongaigain(PG) line with gen above 600 MW will lead to the collapse of the Island.

Forum noted that the SPS will remain active during the Island formation.

Agenda from NEEPCO

B.15 <u>Frequent tripping of 132kV Turial-Kolasib Line causing generation</u> outage of Turial plant

It may kindly be noted that total instances of tripping of 132 KV Tuirial-Kolasib in this fiscal (up to 24.10.2025) are Fifty Nine (59), out of which Fifty One (51) tripping was recorded between July to October.

This data is excluding Thirteen (13) planned shut-down taken by the state power department for Carrying out line maintenance.

We understand that most of the trippings are attributable to snapping of jumpers, protection failure at Kolasib substation etc.

In between, state power department had taken long day-time shutdown for six (06) days for line maintenance (from 29.09.2025 to 04.10.2025). It is however surprising to note that the line still recorded Ten (10) tripping in next 20 days after the above-mentioned maintenance.

It may be noted that frequent line-trip with consequent load throw (as both units are running near MCR for most of the duration) and overspeed tripping of the machines are harmful not only for Turbine Generator, HV Transformers and associated Switchyard equipment but also severely affects the penstock, spiral casing due to huge hydraulic stress. Moreover, Tuirial had to incur huge generation & revenue loss on account of these outages.

Therefore, it is requested to discuss the matter in the forum and direct the Power department, Govt. of Mizoram to resolve the issue at the earliest possible to avoid any further tripping please.

Deliberation

Mizoram informed that most of the tripping occur due to jumper snapping and vegetation fault. Further he informed that vegetation clearance work is being regularly taken out. Regarding the 2nd circuit of Turial-Kolasib line, Mizoram updated that work will tentatively be completed by May'26.

Forum suggested Mizoram to do the thermal scanning of the line and ensure double jumpering in the vulnerable locations.

Agenda from Powergrid

B.16 Frequent tripping of Dimapur-Kohima line

Recent frequent tripping of 132KV Dimapur-Kohima line (details as given below w.e.f 01.04.2025) due to the fault in the line under Nagaland jurisdiction have been recorded and the same requires the permanent rectification of defects in the line to avoid the frequent tripping's of the above line. On 02.10.2025, during Auto Reclosure attempt & persisting permanent fault in the above line and due to the delay in GIS CB opening at Dimapur end led to 132KV Bus-1 Tripping. It may be noted that CB is 2008 manufacturing and due to frequent feeding of fault recently mechanism related issues have escalated.

Description	Relay Details	Tripping Date	Tripping Time	Restoration Date	Restoration Time
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 1.26 KA Type of Fault-B-N, Distance-38.98 KM	15-04-2025	14:56:00	15-04-2025	15:11:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 2.094 KA Type of Fault- B-N , Distance- 39.01 KM	17-04-2025	13:34:00	17-04-2025	14:19:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 1.76 KA Type of Fault-B-N, Distance-49.123 KM	23-04-2025	16:04:00	23-04-2025	16:38:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 1.69 KA Type of Fault- B-N , Distance- 18.62 KM	27-04-2025	04:00:00	27-04-2025	14:46:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 1.74 KA Type of Fault-B-N, Distance-18.17 KM	31-05-2025	00:24:00	31-05-2025	00:39:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 3.1 KA Type of Fault-B-N, Distance-16.6 KM	26-06-2025	10:41:00	26-06-2025	11:09:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 5.6 KA Type of Fault-B-N, Distance-4.533 KM	24-07-2025	23:54:00	24-07-2025	23:54:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 2.48 KA Type of Fault-Y-B-N, Distance-40.87 KM	26-07-2025	14:08:00	26-07-2025	14:49:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 1.35 KA Type of Fault- R-N, Distance-23.507 KM	15-08-2025	23:06:00	15-08-2025	23:06:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 3.0 KA Type of Fault-B-N, Distance-14.69 KM , Fault Angle - 31.06 degree	25-08-2025	19:54:00	25-08-2025	19:54:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 932 A Type of Fault-B-N, Distance-45.32 KM	09-09-2025	09:25:00	09-09-2025	09:25:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 2.85 KA Type of Fault-B-N, Distance-14.86 KM , Fault angle - 30 degree	09-09-2025	12:05:00	09-09-2025	12:05:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 2.37 KA Type of Fault-B-N, Distance-14.12 KM	18-09-2025	13:42:00	18-09-2025	13:42:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 1.18 KA Type of Fault-B-N, Distance-58 KM	24-09-2025	11:52:00	24-09-2025	12:12:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 3.3 KA Type of Fault-B-N, Distance-14.44 KM	24-09-2025	12:32:00	24-09-2025	15:11:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 1.4 KA Type of Fault-B-N, Distance- 32.86 KM	24-09-2025	16:05:00	24-09-2025	16:05:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 1.0 KA Type of Fault-B-N, Distance-57.84 KM	25-09-2025	10:52:00	25-09-2025	14:10:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 3.33 KA Type of Fault-B-N, Distance-15.06 KM	30-09-2025	16:01:00	30-09-2025	16:01:00
132kV DIMAPUR-KOHIMA(NAGALAND)-1	Fault Current- 2.0 KA Type of Fault-B-N, Distance-22.41 KM	02-10-2025	17:14:00		

In continuation to above, this is to state that there has been frequent tripping of 132kV Dimapur-Kohima feeder which has led to numerous operations of the GIS CB at Dimapur end. This is to intimate that such frequent operation of CB at Dimapur end is not desired which may lead to major grid blackout in future if such frequent CB operation persists. Hence, until the frequent tripping issue of the 132kV Dimapur-Kohima feeder is resolved, the Auto Reclose function at Dimapur end shall be kept OFF. This is for kind discussion please.

In light of the above, the forum is requested to allow keeping the AR OFF at Dimapur end for 132kV Kohima feeder.

Deliberation

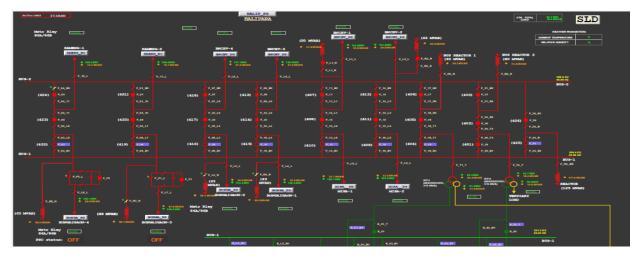
Forum agreed for keeping off the AR at Dimapur end for the Kohima line till the tripping issue of the line is resolved by DoP Nagaland.

Additional Agenda from NERLDC

B.17 Outage of 8 CB's at 400 kV Bus I at Balipara (PG) on 04-Nov-2025 at 17:07 Hrs:

At 17:07 Hrs on 04-Nov-2025, an event occurred at the 400 kV Bus I of Balipara (PG).

During the incident, out of the nine circuit breakers (CBs) connected to the 400 kV Bus I, eight CBs tripped simultaneously, while only one CB (Bay 401) remained in service. Owing to the availability of Bay 401, a complete outage of Bus I was avoided.



As per PMU data and real-time information received from NERTS, no system fault was detected during the event. Subsequently, all affected bays were re-energized. Hence, NERTS (PGCIL) is requested to investigate and share the root cause of this multiple-bay tripping incident and to propose suitable remedial measures to prevent recurrence of such critical events.

Deliberations

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NERTS highlighted the issued caused due to maloperation during ongoing transition work from GE software system to Hitachi responsible for the remote operation of the substation equipment system.

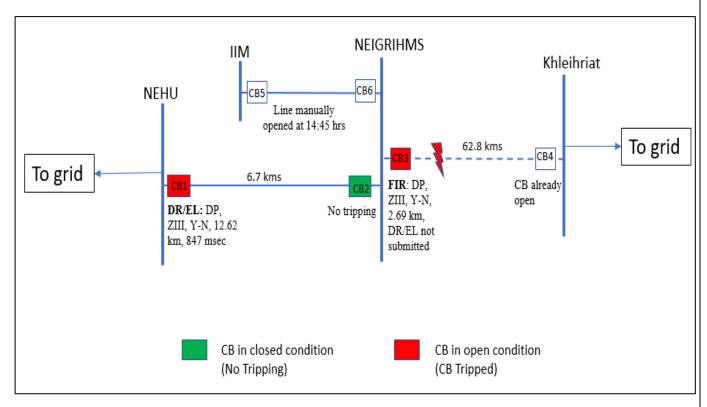
The maloperation caused the tripping of total 8 CBs one in every 12 seconds caused the event. However, NERTS will ensure there is no issued in future during the software transition.

C. FOLLOW-UP AGENDA ITEMS

C.1 Grid Disturbance in NEIGRIHMS & IIM areas of Meghalaya Power System on 6th Sept'25:

NEIGRIHMS and IIM areas of Meghalaya Power System are connected with rest of NER Grid via 132 kV NEIGRIHMS-Khliehriat line and 132 kV NEIGRIHMS-NEHU line. Prior to the event, 132 kV NEIGRIHMS-Khliehriat line was under tripped condition since 14:29 Hrs of 06-09-2025.

At 14:41 Hrs of 06-09-2025, while charging attempt of 132 kV NEIGRIHMS-Khleihriat Line, 132 kV NEIGRIHMS-NEHU line tripped resulting in grid disturbance of NEIGRIHMS and IIM areas of Meghalaya Power System. Load loss of MW occurred.



As per DR analysis, at 14:27:26.076 Hrs, R-Y-B fault started in 132 kV NEIGRIHMS-Khleihriat line which was cleared within 582 msec from Khleihriat

end on operation of DP, ZII. Fault cleared within 65 msec from NEIGRIHMS end on operation of DP, ZI. Ir-3.9 kA, Iy-4.07 kA, Ib-4.16 kA.

At 14:41 hrs, charging of 132 kV NEIGRIHMS-Khleihriat line was attempted and tripped in DP, ZIII, Y-N, FD: 2.69 Km from NEIGRIHMS end (DR/EL not submitted) At 14:37:06.334 hrs, Y-N fault initiated and cleared within 847 msec from NEHU end on operation of DP, ZIII. No tripping from NEIGRIHMS end.

Root cause: Conductor snapped at T-Loc 42.

MePTCL to take the following actions:

- Review ZII time delay of CB4 and set as per protection philosophy.
- Share the reason why CB3 did not detect the fault in ZI and waited for ZIII time delay despite having fault at a distance of 2.69 km from NEIGRIHMS.
- Tripping of New Umtru Unit-1 seems unwanted. The same needs to be thoroughly investigated.
- Time drift observed: 2 min at Khleihriat end for 132 kV NEIGRIHMS line; 4 min at NEHU for NEIGRIHMS line. Availability/healthiness of GPS needs to be ensured and time to be adjusted as per grid code.

Deliberation of 84th PCCM

The forum noted that CB3 should have seen the fault in Zone 1 or Zone II given that the CB1 has seen the fault in ZIII.

Meghalaya informed that there are no issues with the relays for CB3 as the fault was highly resistive nature (voltage drop 3-4 kV) at 14:41 hrs. Hence, DPR not able to capture the actual distance. However, the same relay operated correctly at 14:27 hrs (first tripping) due to jumper snapping.

Forum advised Meghalaya to check the distance protection settings for CB3. PGCIL informed that Meghalaya may trans play the fault to check the actual operation of CB3 relay during the fault and take actions accordingly.

Regarding tripping of New Umtru Unit 1, MePGCL informed that OEM has been invited to review the protection system

Deliberation

MePTCL informed that for CB3 trans play was done and the relay again indicated zone 3 as the fault current was very low.

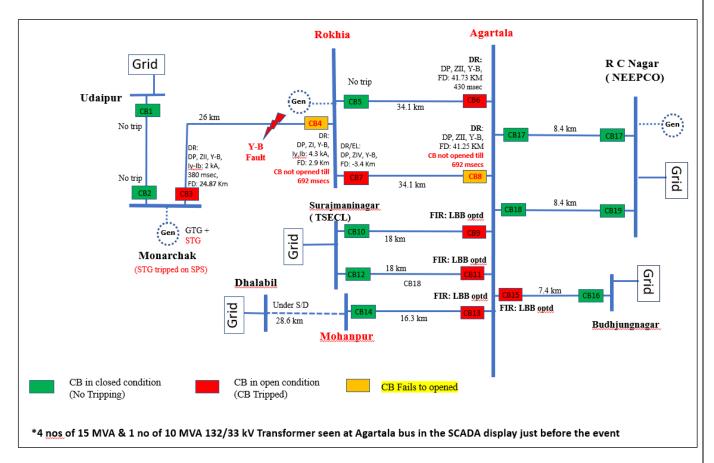
NERPC opined that since the Neighrims-Khliehriat line (62 Km) is preceded by NEHU-Neighrims line (6.7Km) the chances of simultaneous operation of the ZIII at Neighrims and NEHU ends are very high for low fault currents as happened in the present case and the GD may recur due to the issue. He, therefore suggested that DEF may be implemented in the Neighrims-Khliehriat line for early clearing of the highly resistive faults.

Forum requested MePTCL to implement the DEF on the Neighriems-Khliehriat line.

C.2 <u>Grid Disturbance in Rokhia and Mohanpur S/S of Tripura Power system</u> on 18th Sept'25:

Rokhia Substation of Tripura is connected with rest of the grid via 132 kV Rokhia – Agartala 1 & 2 line and 132 kV Rokhia - Monarchak Line. Mohanpur S/S of Tripura System is connected with rest of the grid via 132 kV Agartala – Mohanpur only (132 kV Mohanpur - Dhalabil under S/D)

At 10:35 Hrs of 18-09-2025, all the connected circuits to Rokhia and Mohanpur S/S got tripped simultaneously resulted into the blackout of the Rokhia and Mohanpur S/S of Tripura. Load loss of 17 MW and Generation loss of 39 MW occurred.



Event Analysis:

- At 10:35 Hrs, Y-B fault of solid nature appeared in the 132 kV Monarchak –
 Rokhia line which cleared from Monarchak end correctly. The fault detected
 at Rokhia end in ZI & issued trip command immediately however the CB
 fails to opened at Rokhia end resulted into the tripping of 132 kV Rokhia –
 Agartala 1 after 430 msecs.
- 132 kV Rokhia Agartala 2-line CB fails to open after trip command issued by the DP relay in ZII. The same line tripped from Rokhia end on operation of Z IV (reverse) in 692 msecs from the initiation of the fault resulted into the GD at Rokhia SS.
- LBB operated at Agartala bus during CB stuck of Rokhia II line caused tripping of 4 lines, however, 132 kV AGTCCPP – Agartala 1 & 2 line not tripped. LBB operation at Agartala SS caused the GD at radially fed Mohanpur area of Tripura.

Similar stuck breaker condition also observed at Rokhia during the similar Y-B fault in 132 kV Rokhia – Monarchak line at 11:25 Hrs of 24.09.2025.

Deliberation in the 84th PCC Meeting (Ref: Agenda B.8):

- 1. Regarding non-operation of CB4, Tripura informed that control cable had got burnt which is yet to be replaced. Forum instructed TPTL to carry out the tests like CRM and DCRM tests for the CB within one week and ensure that there are no joints in the control cable.
- 2. Forum also requested PowerGrid to take an online training program on CB maintenance.
- 3. Regarding non-operation of CB8, TPTL informed that master trip relay contact had got burnt and will change the relay shortly.
- 4. Forum also noted that LBB operation has not taken place correctly at Agartala and instructed TPTL to provide LBB healthiness report to NERPC and NERLDC.
- 5. Disturbance Recorder (DR) lack proper recording of CB OPEN & CLOSE status as well as LBB operation in each of the connected element at Agartala and Rokhia which needs to be ensured.
- 6. Forum emphasized upon the regular maintenance of the substation equipment for ensuring healthiness of protection system and requested **all the utilities to provide their maintenance procedure to NERPC and NERLDC.**

NERLDC shared a letter to higher authorities of the TPTL & TPGCL vide email dated 22-10-2025 attached as **Annexure C.2.**

TPTL & TPGCL is requested to share the action taken against the points deliberated during 84th PCCM.

Deliberation

Tripura informed that DCRM tests were conducted for CB3 and CB8 and the test results show that there are some issues with the CBs. He further informed that DCRM tests will be conducted again and if the results are similar, the CBs will be replaced. Forum requested PGCIL to conduct a physical training program of testing of CBs.

Forum also requested Tripura to rectify the BB issue at Agratala.

C.3 (Ref: Agenda B.6, 84th PCC Meeting) Grid Disturbance in Ziro, Daporijo,

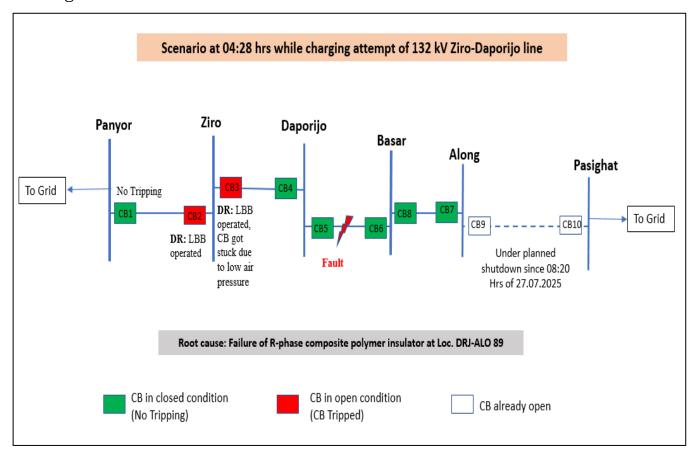
Basar and Along area of Arunachal Pradesh Power System on 13th

Aug'25:

Ziro, Daporijo, Basar and Along areas of Arunachal Pradesh Power System are connected to the rest of NER grid through 132 kV Panyor-Ziro and 132 kV Along-Pasighat lines. Prior to the event, 132 kV Along-Pasighat line was under planned shutdown since 08:20 Hrs of 27.07.2025.

At 03:33 Hrs of 13-08-2025, 132 kV Ziro-Daporijo line tripped which resulted into blackout in Daporijo, Basar and Along areas of Arunachal Pradesh.

At 04:27 Hrs of 13-08-2025, 132 kV Panyor-Ziro line also got tripped while charging attempt of 132 kV Ziro-Daporijo line due to fault in 132 kV Daporijo-Basar line. Due to this tripping, Ziro area was blackout along with Daporijo, Basar & Along substations due to no source available in these areas.



Event Analysis:

- At 03:31:02.182 hrs, High resistive B-N fault (Ib-189 A, In-146 A, Vb-74 kV) in 132 kV Ziro-Daporijo line cleared on operation of E/F protection from Ziro end. No tripping from Daporjo end (radial)
- While charging attempt of 132 kV Ziro-Daporijo line at 04:24 Hrs, line was charged from Ziro end and at 04:28 hrs during closing of CB at Daporijo end, fault occurred in 132 kV Daporijo-Basar line due to the failure of the Rphase composite polymer insulator at Loc. DRJ-ALO 89.

Protection system of 132 kV Daporijo-Basar line failed to isolate the fault.
 CB at Ziro for 132 kV Daporijo line failed to open due to low air pressure,
 LBB protection operated at Ziro leading to tripping of 132 kV Panyor-Ziro line.

Similar incident of insulator failure of 132 kV Daporijo-Basar line occurred on 19th Sept'25.

DoP Arunachal Pradesh to take the following actions:

- Share the reason of non-operation of protection system of 132 kV Daporijo-Basar line.
- DR time drift of 2 min observed at Ziro end for 132 kV Daporijo line which needs to be rectified. Availability/healthiness of GPS needs to be ensured and time to be adjusted as per grid code.
- Frequent damage to insulators occurred between Tower Nos. DRJ-ALO 89 and 90 which likely due to area being lightning-prone. Installation of lightning arresters (LA) at this location, along with improvements to the tower earthing, to mitigate future occurrences.

Deliberation in 84th PCC Meeting:

- **1.** DoP Ar. Pradesh informed that the tripping occurred due to puncturing of insulator by lightning strike. Regarding non-operation of CB#5, he informed that the matter is being looked into.
- **2.** Regarding non-operation of CB3, PGCIL informed that the CB got stuck. He further informed that the CB was of pneumatic type which has been replaced with spring charging type.
- **3.** Forum requested DoP Arunachal Pradesh to check the TFR of the towers along the Daporijo-Basar line and ensure maintenance of their protection equipment.

Hence, DoP to share the status of Deliberation point 1 & 3.

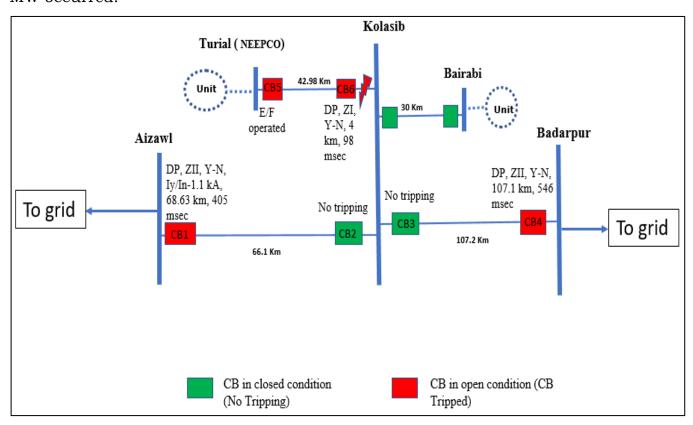
Deliberation

DoP Ar. Pradesh apprised that the TFR was measured for two towers of the Daporijo-Basar line and the same was found to be less than 10 ohms. Further, he informed that the fault was not in the Daporijo-Basar line as the DR at Daporijo showed large current for few milliseconds only, which is inconclusive of presence of fault in the line.

C.4 (Ref: Agenda B.10, 84th PCC) Grid Disturbance in Kolasib, Tuirial & Bairabi HEP of Mizoram Power System on 15th Sept'25:

Kolasib, Tuirial HEP & Bairabi HEP of Mizoram Power System is connected to the rest of the NER grid through 132 kV Kolasib-Badarpur and 132 kV Kolasib -Aizawl lines.

At 15:51 Hrs of 15-09-2025, 132 kV Kolasib-Badarpur and 132 kV Kolasib – Aizawl lines tripped resulting in grid disturbance in Kolasib, Tuirial & Bairabi HEP of Mizoram Power System. Generation loss of 58 MW occurred & load loss of 10 MW occurred.



As per DR analysis, Y-N fault (Iy-1.1 kA, In-1.1 kA) initiated at 15:51:25.738 Hrs which was cleared within 405 msec from Aizawl end on operation of DP, ZII and within 546 msec from Badarpur end on operation of DP, ZII. There was no tripping from Kolasib end.

For 132 kV Tuirial - Kolasib line, Y-N fault (Iy-0.83 kA, In-1.2 kA) cleared within 98 msec from Kolasib end on operation of DP, ZI.

At Tuirial end, ZII initiated at 15:51:31.370 hrs for 93 msecs. However, any trip signal observed caused likely due to operation of backup E/F.

As informed by P&ED Mizoram, Y-ph conductor connecting Isolator & CB broken.

P&ED Mizoram & NEEPCO to take the following actions:

- Likely High set E/F enabled at Tuirial end of 132 kV Kolasib line which need to be disabled.
- E/F setting needs to be reviewed at Tuirial & Kolasib end along with its directionality.
- P&ED Mizoram to review relay setting of all elements at Kolasib S/S.
- As informed by P&ED Mizoram, in 132 kV Kolasib-Tuirial line, Line CVT not present at Kolasib end which needs to be looked into by P&ED Mizoram.
- Non-submission of Detailed analysis report of the event by P&ED Mizoram which is a violation of Clause 37.2 (e) of IEGC regulation 2023.

It is to be noted that during the month of September'25, there were 15 instances of tripping of 132 kV Tuirial-Kolasib line causing frequent generation loss of Tuirial HEP (2x30 M) machine due to loss of evacuation path which is a matter of serious concern.

<u>Deliberation during 84th PCC Meeting:</u>

- 1. Mizoram informed that fault occurred in the Turial-Kolasib line and line CVT is available on the Turial-Kolasib line. However, NERLDC raised the availability as Kolasib end using Bus PT for protection 132 kV Kolasib Turial line as observed during the DR as well as SLD shared after the incident. Hence, Mizoram to cross check once again.
 - Hence, fault in the broken Y-ph conductor connecting CB to Islotaor seen by the Bus PT in ZI which seems correct.
- 2. Likely High set E/F enabled at Tuirial end of 132 kV Kolasib line which need to be disabled at Tuirial. E/F setting needs to be reviewed at Tuirial & Kolasib end along with its directionality.
- 3. Additionally, the forum requested Mizoram to take all measures to maintain the healthiness of the Turial-Kolasib line.
- 4. NERPC audit planned for Kolasib SS during Last week of Oct'25.

Hence, P&ED, Mizoram to share the action plan against deliberation point no 1 & 4 and NEEPCO for point no.2.

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Deliberation

NERLDC apprised that the CVT is present at Kolasib for the Turial line. Further it was suspected that the there is issue with the directionality of distance protection at Kolasib for the Tuirial line and it instructed to Mizoram to check the CT star point in order to rectify the directionality issue.

Annexure-I

List of Participants in the 85th PCC Meeting held on 06.11.2025

SN	Name & Designation	Organization	Contact No.
1	Sh. Moli Kamki, EE (E)	Ar. Pradesh	09863703539
2	Sh. Daggum Doji, AE (E)	Ar. Pradesh	07085666377
3	Sh. Safir Ahmed, Dy. Mgr, AEGCL	Assam	09854472631
4	Sh. Davish Meitei Thongam, JE, MSPCL	Manipur	09862793287
5	Sh. Y.Dipindra Singh, JE, MSPCL	Manipur	09863915357
6	Sh, H.Lalruatkima, SE,SLDC	Mizoram	09862925462
7	Sh. C.Chawngzikpuia, SDO (MRT)	Mizoram	08974770712
8	Sh. Vipin Kumar Azad, AE,SLDC	Mizoram	08794899510
9	Sh. A.G.Tham, AEE, MePTCL	Meghalaya	09774664034
10	Sh. Alvin Shullai, AEE, MePGCL	Meghalaya	07005379616
11	Sh. Meka Kinimi, JE, SLDC	Nagaland	07630857499
12	Sh. P.Tiakaba Yinchunger, JE, SLDC	Nagaland	08974020151
13	Sh. Krishnadhan Biswas, Sr.Mgr, TPTL	Tripura	09862478930
14	Sh. Sajan George, CGM (I/c)	NERLDC	09910378041
15	Sh. Biswajit Sahu, CGM	NERLDC	09425409539
16	Sh. Utpal Das, Dy.Mgr	NERLDC	07005504075
17	Sh. Subhash Kumar, Mgr	NERLDC	09485185844
18	Sh. Manash Jyoti Baishya, Ch.Manager	PGCIL	09435555740
19	Smti. Mamami Talukdar, GM (T)	NEEPCO	09435339690
20	Sh. Peler Lalthlamuana, GM (T)	NEEPCO	08787548583
21	Sh. Manas Pratim Sharma, Sr.Mgr	NEEPCO	08729901871
22	Sh. Soham De, Shift-in-Charge	OTPC	07742850637
23	Sh. G.Sonowal, DGM (Bongaigaon)	NTPC	08269609797
24	Sh. Rajkumar Tenzing, Sr.Mgr.(LOKTAK)	NHPC	08732836775
25	Sh. Dinesh Laha, AGM	INDIGRID	08918720645
26	Sh. K.B.Jagtap, Member Secretary	NERPC	-
27	Sh. Veerandranath Muncha, Director	NERPC	07358529099
28	Sh.Lenin B, Dy.Director	NERPC	08335905973
29	Smti Kanchan Chauhan, Dy.Director	NERPC	08375070150
30	Sh. Vikash Shankar, Asst. Director	NERPC	09455331756



ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड

GRID CONTROLLER OF INDIA LIMITED

(A Government of India Enterprise)

[Formerly Power System Operation Corporation Limited (POSOCO)] उत्तर पूर्वी क्षेत्रीय भार प्रेषण केंद्र/ North Eastern Regional Load Despatch Centre

कार्यालय: पावर हाउस, काहिलिपारा, गुवाहाटी- 781019(असम)

Office: Power House, Kahelipara, Guwahati- 781019 (Assam)
CIN: U40105DL2009GOI188682, Website: www.nerldc.in, E-mail: nerldc@grid-india.in, Mob: 6901274070

Ref: NERLDC/SO/ 2025/14/ 8415

दिनांक/Date: 22.10.2025

सेवा में/To:

- 1. AGM (Generation), TPGCL, Bidyut Bhaban, Banamalipur, Agartala, Tripura-799001
- 2. GM (Transmission), TPTL, Urja Bhawan, 79 Tilla, Agartala, West Tripura 799006

प्रतिलिपि/Copy to:

- 1. Member Secretary, NERPC, Shillong- 793006
- 2. Managing Director, TSECL, Bidyut Bhaban, Banamalipur, Agartala, Tripura-799001
- 3. CGM(I/C), NERLDC
- 4. DGM, System Operation Division, SLDC, 79 tilla, Agartala, Tripura- 799006

बिषय/Sub: त्रिपुरा प्रणाली में ब्रेकर अटक जाने के कारण मल्टीपल ग्रिड समस्या/ Multiple Grid event due to stuck breaker in Tripura system.

महोदया / महोदय,

जैसा कि आप जानते हैं, पिछले कुछ दिनों में 132 केवी रोखिया और अगरतला सबस्टेशन पर बार-बार ब्रेकर अटकने की समस्या देखी गई है। ब्रेकर अटकने के कारण, कई तत्वों ट्रिप हो गए और ग्रिड में डिस्टबेंस हुई, जो बेहद चिंताजनक है और ग्रिड सुरक्षा के लिए ख़तरा है। घटनाओं का सारांश नीचे दिया गया है।

18 सितंबर, 25 को ग्रिड कार्यक्रम का संक्षिप्त विवरण:

दिनांक 18-09-2025 को 10:35 बजे, रोखिया और मोहनपुर सबस्टेशन से जुड़े सभी सर्किट एक साथ ट्रिप हो गए, जिसके परिणामस्वरूप त्रिपुरा के रोखिया और मोहनपुर सबस्टेशन ब्लैकआउट हो गए। उपर्युक्त घटना में 17 मेगावाट की लोड हानि और 39 मेगावाट की उत्पादन हानि हुई। उपरोक्त मल्टीपल ट्रैपिंग और ग्रिड डिस्टर्ब का मुख्य कारण 132 केवी रोखिया-मोनार्चक लाइन के 132 केवी रोखिया सब-स्टेशन पर ब्रेकर अटकना और 132 केवी रोखिया-अगरतला के 132 केवी अगरतला सब-स्टेशन पर ब्रेकर अटकना और 132 केवी रोखिया-अगरतला के 132 केवी अगरतला सब-स्टेशन पर ब्रेकर अटकना है । उपरोक्त घटना और उसके विश्लेषण का विवरण परिशिष्ट -। में संलग्न है ।

24 सितंबर, 2025 को ग्रिड कार्यक्रम का संक्षिप्त विवरण:

यह देखा गया है कि 24.09.2025 को 11:25 बजे 132 केवी रोखिया-मोनार्चक लाइन के वाई-बी फॉल्ट के दौरान रोखिया सबस्टेशन पर इसी तरह के ब्रेकर फंस गई थी।

उपरोक्त घटना में सभी जुड़े हुए तत्व 132 केवी रोखिया सबस्टेशन ट्रिप हो गए जिसके परिणामस्वरूप रोखिया का ब्लैकआउट हो गया। 3 मेगावाट का लोड लॉस और 12 मेगावाट का उत्पादन नुकसान उपरोक्त ग्रिड डिस्टर्बेस में हुआ। उपरोक्त घटना और उसके विश्लेषण का विवरण परिशिष्ट -II में संलग्न है।

दिनांक 24.09.2025 के ई-मेल के माध्यम से एनईआरएलडीसी ने टीपीटीएल से 18.09.2025 को होने वाले घटना के लिए मूल कारण और विस्तृत रिपोर्ट प्रस्तुत करने का अनुरोध किया है। तथापि, इस संबंध में आज तक टीपीटीएल से कोई पत्र प्राप्त नहीं हुआ है।

09.10.2025 को एनटीपीसी, बोंगाईगांव में आयोजित 84वीं पीसीसी बैठक के दौरान इस मुद्दे को फिर से उठाया गया। चूंकि टीपीजीसीएल के प्रतिनिधि उपरोक्त बैठक में उपस्थित नहीं थे, इसलिए टीपीटीएल के प्रतिनिधि ने फोरम को निम्नलिखित जानकारी दी:

- 1. 132 केवी रोखिया-मोनारचक लाइन के लिए रोखिया (टीपीजीसीएल) में ब्रेकर न खोले जाने का कारण नियंत्रण केबल संबंधी समस्याओं के कारण था। नियंत्रण 700 मीटर लंबाई की है और इसमें जोड़ हैं, जिसने खराबी में योगदान दिया। यही समस्या 24 सितंबर 2025 को फिर से देखी गई।
- 2. 18.09.2025 के आयोजन के दौरान 132 केवी अगरतला-रोखिया 2 लाइन के लिए अगरतला (टीपीटीएल) में मास्टर ट्रिप रिले कीसमस्या के कारण ब्रेकर काम नहीं किया था।

फोरम ने त्रिपुरा प्रणाली में देखी गई कई ब्रेकर विफलताओं पर चिंता व्यक्त की और निम्नलिखित कार्यों की सलाह दी:

- 1. एक सप्ताह के भीतर रोखिया और अगरतला में ब्रेकर के लिए डीसीआरएम और समय परीक्षण करें। इसके अलावा नियंत्रण केबल में किसी भी जोड़ से बचें।
- 2. एलबीबी रिले की जांच करें और अगरतला बस से जुड़े सभी तत्वों के लिए उचित कनेक्टिविटी स्निश्चित करें।
- 3. अगरतला और रोखिया दोनों सबस्टेशनों पर सभी तत्वों के लिए डिस्टर्बेंस रिकॉर्डर में सीबी ओपन/क्लोज स्थिति और एलबीबी संचालन की उचित रिकॉर्डिंग सुनिश्चित करें। डीआर मानकीकरण त्रंत पूरा किया जाएगा।
- 4. प्रभावी निगरानी और घटना विश्लेषण की सुविधा के लिए घटनाओं के दौरान एससीएडीए प्रणाली के माध्यम से अगरतला की ब्रेकर और आइसोलेटर स्थिति सुनिश्चित करना।

उपरोक्त को ध्यान में रखते हुए, और त्रिपुरा प्रणाली के विश्वसनीय संचालन की गंभीरता को ध्यान में रखते हुए, एक बार फिर यह अनुरोध किया जाता है कि टीपीजीसीएल और टीपीटीएल भविष्य में इस

तरह की ग्रिड डिस्टर्बेंस की पुनरावृत्ति को रोकने के लिए सभी आवश्यक उपाय करें। आपसे यह भी अनुरोध है कि आप ऊपर उल्लिखित मुद्दों के समाधान के लिए की गई सुधारात्मक कार्रवाइयों के बारे में इस कार्यालय को सुचित करें।

इस संबंध में आपके सहयोग से सुरक्षित, संरक्षित और विश्वसनीय ग्रिड संचालन का अनुरोध किया जाता है।

धन्यवाद एवं सादर सहित।

Madam/Sir,

As you are aware that in past few days repeated intances of stuck breaker condition has been observed at 132 KV Rokhia and Agartala substation. Due to the stuck breaker, tripping of mutiple elements and grid disturbances have occured which is very concerning and is a threat to grid security. The gist of the events are given below.

Brief details of the Grid Event on 18th Sep'25:

At 10:35 Hrs on 18-09-2025, all the connected circuits to Rokhia and Mohanpur S/S tripped simultaneously resulted into the blackout of the Rokhia and Mohanpur S/S of Tripura. Load loss of 17 MW and generation loss of 39 MW occurred in the above event. The prime reason for above multiple trappings and grid disturbance is due to stuck breaker at 132 kV Rokhia Sub-Station of 132 Kv Rokhia - Monarchak line and stuck breaker at 132 kV Agartala Sub-Station of 132 kV Rokhia- Agartala line. Details of the above event and its analysis is attached at **Annexure-I**

Brief details of the Grid Event on 24th Sep'25:

It has been observed that a similar stuck breaker condition occurred at Rokhia Substation during a Y–B fault of in the 132 kV Rokhia–Monarchak line at 11:25 Hrs on 24.09.2025.

In the above event all connected elements 132 KV Rokhia S/S tripped resulting in blackout of Rokhia S/S. Load loss of 3 MW and generation loss of 12 MW occurred in the above grid disturbance. Details of the above event and its analysis is attached at **Annexure-II**

Vide e-mail dated 24.09.2025 NERLDC has requested TPTL to furnish the root cause and the detailed report for the event on 18.09.2025. However, in this regard till date no communication has been received from TPTL.

The issue was again raised during the 84th PCC Meeting held at NTPC, Bongaigaon on 09.10.2025. As representative of TPGCL was not present in the above meeting, the representative from TPTL informed the forum the following:

- 1. Non-opening of CB at Rokhia (owned by TPGCL) for 132 kV Rokhia–Monarchak Line was due to control cable issues. The control cable is of 700 meters length and has joints, which contributed to the malfunction. The same problem was observed again on 24th September 2025.
- 2. Non-opening of CB at Agartala (owned by TPTL) for 132 kV Agartala—Rokhia 2 Line during the 18.09.2025 event was due to an issue with the Master Trip Relay.

The forum expressed concern over multiple CB failures observed in the Tripura system and advised the following actions:

- 1. Perform DCRM and timing tests for the CBs at Rokhia and Agartala within one week. Also avoid any joints in control cable.
- 2. Check the LBB relay and ensure proper connectivity to all the elements connected to the Agartala Bus.
- 3. Ensure proper recording of CB OPEN/CLOSE status and LBB operations in the Disturbance Recorder for all elements at both Agartala and Rokhia substations. DR standardization shall be completed immediately.
- 4. Ensure CB and Isolator status of Agartala through the SCADA system during events to facilitate effective monitoring and event analysis.

In view of the above, and considering the criticality of reliable operation of Tripura system, it is once again requested that TPGCL and TPTL take all necessary measures to prevent recurrence of such grid disturbances in future. You are also requested to intimate this office regarding the corrective actions taken to address the issues mentioned above.

Your cooperation in this regard is requested for safe, secure, and reliable grid operation.

भवदीय / Yours sincerely,

BISWAJIT SAHU
SAHU
SAHU
Date: 2025.10.22 12:11:05
+05:30

(विश्वजीत साहू / Biswajit Sahu) मुख्य महाप्रबंधक (एस.ओ) /C.G.M. (S.O.) उपूक्षेभाप्रेके, गुवाहाटी / NERLDC, Guwahati

संलग्नक /Enclosures:

- 1. **Annexure I**: NERLDC Detailed Report for the GD on 18.09.2025
- 2. Annexure II: NERLDC Detailed Report for the GD on 24.09.2025
- 3. **Annexure III**: NERLDC Email communication dated 24.09.2025