



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/2024/ 3205-3247

5th December, 2024

To As per list attached

Sub: 73वीं पी.सी.सी बैठक का कार्यवृत Minutes of 73rd PCC Meeting.

महोदय/महोदया,

कृपया 26 नवंबर, 2024 को एन.ई.आर.पी.सी कॉन्फ्रेंस हॉल, शिलांग में आयोजित 73 वीं पी.सी.सी बैठक के कार्यवृत्त को अपनी जानकारी और आवश्यक कार्रवाई के लिए प्राप्त करें। कार्यवृत्त एन.ई.आर.पी.सी की वेबसाइट: www.nerpc.gov.in पर भी उपलब्ध है।

कृपया कोई भी टिप्पणी जल्द से जल्द एन.ई.आर.पी.सी सचिवालय को सूचित करें।

Sir/Madam,

Please find enclosed herewith the minutes of the 73rd PCC Meeting held at NERPC Conference Hall, Shillong on 26th November, 2024 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,

(ए. दे/A. De)

(उप निदेशक / Deputy 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, Bidyut Bhaban, 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. ED, NERLDC, Dongtieh, Lower Nongrah, Lapalang, Shillong -793 006
- 28. CGM, AEGCL, Bijuli Bhawan, Guwahati 781001
- 29. CGM, APGCL, Bijuli Bhawan, Guwahati 781001
- 30. CGM, DISCOM, Bijuli Bhawan, Guwahati 781001
- 31. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar 791111
- 32. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
- 33. Head of SLDC, MSPCL, Imphal 795001
- 34. Head of SLDC, MePTCL, Lumjingshai, Short Round Road, Shillong 793 001
- 35. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl 796 001
- 36. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur 797103
- 37. Head of SLDC, TSECL, Agartala 799001
- 38. Chief Engineer (Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124
- 39. DGM (O&M), OTPC, Badarghat Complex, Agartala, Tripura 799014
- 40. Director, NETC, 2C, 3rdFloor, D21Corporate Park, DMRC Building Sector 21, Dwarka, Delhi-77
- 41. AGM Regulatory & Commercial, NER II TL, 10th Floor, Berger Tower, Noida sector 16B-201301
- 42. Project Head, NERPSIP/PGCIL, Pub Suraj Nagar, Nutun Bazar, Kahelipara, Guwahati-781019
- 43. ED, Comprehensive Scheme (Ar. Pradesh), PGCIL, Tayeng Building, Nitivihar, Itanagar-791111

(ए. दे/A. De)

(उप निदेशक / Deputy Director)



Minutes
of
73rd PCCM



Govt. of India

Ministry of Power

North Eastern Regional Power Committee

Shillong

North Eastern Regional Power Committee

Minutes of

73rd Protection Coordination Sub-Committee Meeting

Date: 26/11/2024 (Tuesday)

Time: 11:00 hrs.

Venue: NERPC conference Hall, Shillong

A. CONFIRMATION OF MINUTES

1. <u>CONFIRMATION OF MINUTES OF THE 72nd PROTECTION SUB-</u>COMMITTEE MEETING OF NERPC.

Minutes of the 72nd PCC Meeting held on 21st October, 2024 (Monday) at NERPC Conference Hall, Shillong was circulated vide letter No.: NERPC/SE (O)/PCC/2024/2709-2750 dated 30th October, 2024.

No comments were received from constituents

The Sub-committee confirmed the minutes of 72nd 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—

Descrip	tion	Constituent	Responsibility	Timeline
			Shall conduct internal	Annually
			audit of protection system	
	Internal	All user	Audit report to be shared	Within 30 days
	Audit	(132kV an	d 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 user	s advice of RPC	months of
		(132kV an	d	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	

			October	
	audit plan		submitted to RPC by 31st	
1	Annual	All users	Annual audit plan to be	Annual

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. NERLDC stated that a google spreadsheet has been circulated to the constituents to provide the schedule of protection audit as well as date of last audit. The forum requested the constituents to update the spreadsheet.

In 70th and 69th PCCM, following points were discussed

1. Forum requested users to update the proposed date for Internal Audit & Thirdparty Audit in the spreadsheet shared by NERLDC as soon as possible.

- 2. AEGCL updated that the internal audit of 61 substations has been completed and would share the report by this month.
- 3. TSECL absent
- 4. Manipur informed that Protection audit committee has been formed and the audit schedule, for external audit, will be decided shortly.
- 5. DoP Arunachal Pradesh updated that internal audit of Chimpu SS is done and report will be shared shortly to NERPC and NERLDC. He further informed that audit of Lekhi would be done by August'24. He also stated that the audit reports would be shared in due time to NERPC.
- 6. NTPC informed that 3rd party audit has been awarded and will be done in 3rd week of September.
- 7. NERTS updated that internal audit of its substations is being done in a phased manner and audit of 10 substations has been completed and reports shared with NERPC.
- 8. DoP Naglanad updated that internal audit of 4 substations has been completed and report shared with NERPC.
- 9. NEEPCO informed that internal audit of Pare and Kopili has been completed and audit of thermal substations will be done shortly.

Regarding audit of substations of Nagaland and adjoining substations of NERTS, it was decided to conduct the audit of 132 kV Dimapur (DoPN) SS, 132 kV Kohima SS, 132 kV Chiepouvozou SS132 kV Zhadima SS and 220 kV Dimapur (PGCIL) in August'24. DoP Nagaland stated that the audit schedule will be provided shortly. Further, it has been decided that audit of rest of the 132 kV substations of Nagaland will be conducted after end of Monsoon season.

The status of internal audit, external audit and report submissions have been summarized in the following table (as update in 72nd PCCM) –

	Utility/Constituents	Internal Audit		External audit		
		Status (72 nd report S		Status (72 nd	report	
		PCCM)		PCCM)		
1.	Ar. Pradesh	Chimpu –	Report of	Financial	NA	
		done.	Chimpu to	approval for the		

2.	Assam	Rest to be done Done for 61 SS	be submitted by December'24 To be submitted by Aug end	audit pending. Schedule to be decided afterwards. NERPC conducted audit of 6 SS in Jan to June'24. Other SS done in 2021-22. Only Karimganj left.	submitted
3.	Manipur	Done for all SS	Submitted	8 SS to be done, Schedule to be decided.	NA
4.	Meghalaya	No audit done yet in FY 2024-25	NA	Audit of 6 SS (Killing, EPIP I, EPIP II, NEHU, Mawlai an MAwphlang) conducted by NERPC on 26th and 27th August'24	be shared
5.	Mizoram	Done for all SS	Report	Audit of Luangmual, Zuangtui and Kolasib planned in August'24. List of external agencies awaited	NA
6.	Nagaland	Done for four SS	Report shared	Audit of 5 ss to be done in Mid of November'24.	NA

				For rest, to be	
				planned later.	
7.	Tripura	11 done, rest	To be shared	Jan-Feb'25	NA
		by			
		November'24.			
		For 66kV SS -			
		audit by			
		ecmber'24.			
8.	Powergrid (NERTS)	POWERGRID	shared	External audit	
0.	Towergrid (IVDICTO)	has	Silarca	completed for	
		completed &		Misa & Salakati	
		submitted		Ss.	
		internal			
		protection			
		reports for 16			
		nos. of			
		substations.			
9.	NTL				
10	KMTL				
11	MUML	Planned in	To be shared		
		Dec'24 for			
		N.Lakhimpur-			
		Pare line bays			
		and			
		N.Lakhimpur-			
		Nirjuli bays at			
		Lakhimpur			
12	NEEPCO	Pare,	Shared for	To be planned.	
		Ranganadi	Pare and	Waiting for the	
		and Turial	Turial	list of agencies	
		done.		from NPC	
		RC Nagar and			
		Kathalguri to			
		be planned			

13.	OTPC	Done		Done	shared
14.	NTPC	Done	shared	September 3 rd	
				week	
15.	NHPC				
16.	APGCL				
17.	TPGCL				
18.	MEPGCL				

Following points were discussed in the 72nd PCC meeting

- 1. Forum requested users to update the proposed date for Internal Audit & Third-party Audit in the spreadsheet shared by NERLDC as soon as possible.
- 2. Forum requested users to update the next year Internal Audit & Third-party Audit plan and also requested to send the last 5-years Internal Audit & Third-party Audit list to NERPC and NERLDC as soon as possible.
- 3. AEGCL updated that the internal audit of 61 substations has been completed and report has been submitted. AEGCL also updated that for Third-party Audit of 132 kV Karimganj substation is yet to be done.
- 4. TSECL updated that the internal audit of 11 substations has been completed and rest would be completed by Sept.'24 and would share the report at earliest. He also informed the forum that Third-party Audit would be planned after Oct'24.
- 5. Manipur informed that Protection audit committee had been formed and the audit schedule, for external audit, would be decided shortly.
- 6. DoP Arunachal Pradesh updated that the external audit is planned to be conducted in Nov'24.
- 7. Mizoram informed the forum that they were planning Third-party Audit through recognized auditor and for the same they were waiting for the CEA recognized auditor list.
- 8. NTPC informed that 3rd party audit had been awarded and would be done in 3rd week of September.

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9. DoP Naglanad informed the forum that due to landslide issue, external audit of 5 substations would not be possible then and requested that external audit of the same could be done tentatively in Nov'24.

It was also decided that Audit of the 5 SS of Nagaland can be conducted in Mid of November'24 by NERPC and audit of Kolasib (Mizoram), Aizwal (PG), Melriat (PG) and other nearby important substations also to be conducted by November'24.

Deliberation of the sub-committee

Utilities updated as follow-

	Utility/Constituents	Internal	Audit		External audit	
		Status	(73 rd	report	Status (73rd	report
		PCCM)			PCCM)	
1.	Ar. Pradesh	Chimpu	. –	Report of	Financial	NA
		done.		Chimpu to	approval for the	
		Rest t	o be	be submitted	audit pending.	
		done		by	Schedule to be	
				December'24	decided	
					afterwards.	
2.	Assam	Done f	or 61	To be	NERPC	submitted
		SS		submitted	conducted audit	
				by Aug end	of 6 SS in Jan to	
					June'24.	
					Other SS done	
					in 2021-22.	
					Only Karimganj	
					left.	
3.	Manipur	Done f	or all	Submitted	8 SS to be done,	NA
		SS			Schedule to be	
					decided.	
4.	Meghalaya	No audi	t done	NA	Audit of 6 SS	Report to
		yet in	r FY		(Killing, EPIP I,	be shared
		2024-25	5		EPIP II, NEHU,	by end of
					Mawlai an	October'24
					MAwphlang)	
					conducted by	

				NERPC on 26th	
				and 27 th	
				August'24	
5.	Mizoram	Done for all	Report	Audit of	NA
		SS	shared	Luangmual,	
				Zuangtui and	
				Kolasib planned	
				in August'24.	
				List of external	
				agencies	
				awaited	
6.	Nagaland	Done for four	Report	Audit of 5 ss to	NA
		SS	shared	be done in Mid	
				of November'24.	
				For rest, to be	
				planned later.	
7.	Tripura	11 done, rest	To be shared	Jan-Feb'25	NA
		by December			
		'24.			
		For 66kV SS -			
		audit by			
		Decmber'24.			
0	D '1 (NDD#G)	DOMEDODID	1 1	D 1 1'	
8.	Powergrid (NERTS)	POWERGRID	shared	External audit	
		has		completed for	
		completed & submitted		Misa & Salakati Ss.	
		internal		38.	
		protection			
		reports for 16			
		nos. of			
		substations.			
9.	NTL				
10	KMTL				
11	MUML	Planned in	To be shared		
		Dec'24 for			

		N.Lakhimpur-			
		Pare line bays			
		and			
		N.Lakhimpur-			
		Nirjuli bays at			
		Lakhimpur			
12	NEEPCO	Pare,	Shared fo	r To be planned.	
		Ranganadi	Pare an	d Waiting for the	
		and Turial	Turial	list of agencies	
		done.		from NPC	
		RC Nagar and			
		Kathalguri to			
		be planned			
13.	OTPC	Done		Done	shared
14.	NTPC	Done	shared	September 3 rd	
				week	
15.	NHPC				
16.	APGCL				
17.	TPGCL				
18.	MEPGCL				

<u>Further discussion-</u>

- 1. DoP Arunachal Pradesh updated for the external audit, financial approval is pending with higher authorities. Meanwhile DoP AP, requested NERPC to conduct the 3rd Party audit. NERPC stated that the decision on the matter will be taken up in next PCC meeting.
- 2. Mizoram stated that that they were planning Third-party Audit through recognized auditor and for the same they were waiting for the CEA recognized auditor list. NERPC informed that the in the recently held 15th NPC meeting, it was decided that the proposed list of external agencies needs further examination and verification by NPC and thus the list was not approved in the meeting. NERPC opined that Mizoram can conduct the external audit by hiring appropriate agencies through internal process till the list is finalized.

- 3. DoP Nagaland informed the forum that due to ongoing Hornbill festival in the state, external audit of the 5 substations (Sania, Wokha, Kohima, Chiepouvouzou and Dimapur) would not be possible in November'24 and requested that external audit of the same could be done tentatively in Jan'25.
- 4. It was also decided that Audit of the 5 SS of Nagaland can be conducted in Jan'25 by NERPC and audit of Kolasib (Mizoram), Aizwal (PG), Melriat (PG) and other nearby important substations also to be conducted by Jan'24.

B.2 Analysis and Discussion on Grid Disturbances which occurred in NER grid in September'24 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 September 2024 based on the draft report prepared by NERLDC (attached as annexure **B.2**).

Deliberation of the sub-committee

NERLDC informed that 8 GDs occurred in the month of Oct'24 in NER and the same have been placed for detailed discussion in upcoming agenda items.

NERLDC Agenda

B.3 Status of submission of FIR, DR & EL outputs for the Grid Events for the month of October'2024:

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 01-10-2024 to 31-10-2024 as on **11-11-2024** is given below:

Nama of Utility	No. of	Total FIR to	Total DR to	Total EL to	Total FIR,	DR & EL s	ubmitted	Total FIR,	DR & EL not	submitted	%	Submission	1 of
Name of Utility	trippings	be submitted	be submitted	be submitted	FIR	DR	EL	FIR	DR	EL	FIR	DR	EL
DoP, Arunachal Pradesh	2	4	4	4	4	3	4	0	0	0	100	100	100
DEPL	0	0	0	0	0	0	0	0	0	0		No event	
AEGCL	25	50	37	37	50	37	37	0	0	0	100	100	100
APGCL	1	1	1	1	1	1	0	0	0	0	100	100	100
MSPCL	8	20	17	17	18	13	13	2	4	4	90	76	76
MePTCL	2	2	2	2	2	2	2	0	0	0	100	100	100
MePGCL	4	4	0	0	4	0	0	0	0	0	100	NA	NA
P&ED, Mizoram	0	0	0	0	0	0	0	0	0	0		No event	
DoP, Nagaland	6	13	13	13	12	10	11	1	3	2	92	77	85
TSECL	3	5	5	5	3	5	5	2	0	0	60	100	100
TPGCL	0	0	0	0	0	0	0	0	0	0		No event	
POWERGRID	23	50	48	48	44	41	36	6	7	12	88	85	75
NEEPCO	29	33	27	31	26	19	23	7	8	8	79	70	74
NHPC	4	6	4	3	6	3	2	0	0	0	100	100	100
NTPC	0	0	0	0	0	0	0	0	0	0		No event	
OTPC	3	3	2	2	3	2	2	0	0	0	100	100	100
NTL	5	4	4	4	4	4	4	0	0	0	100	100	100
MUML	0	0	0	0	0	0	0	0	0	0		No event	
KMTL	1	1	1	1	1	1	1	0	0	0	100	100	100

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

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

Deliberation of the sub-committee

NERLDC highlighted that submission rate of all the utilities except for Manipur (76%), Nagaland (77%) and NEEPCO (78%) are satisfactory for the month of October'24.

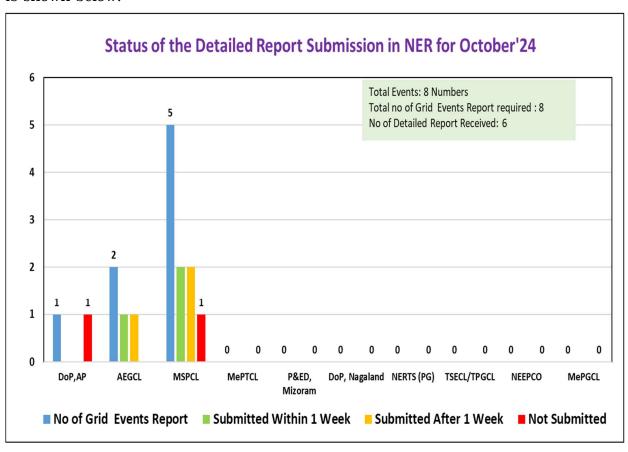
Nagaland stated that the rest of the DR, EL were submitted beyond the stipulated timeline.

The Forum exhorted all the utilities to submit the required data timely in compliance with the 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 **October**, **2024** as on **11-11-2024** is shown below:



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

Deliberation of the sub-committee

NERLDC highlighted that DoP Arunachal Pradesh have not yet submitted the report. MSPCL has not submitted for 1 GD. DoP Arunachal. Pradesh stated that the report will be submitted shortly to NERLDC. The forum strongly advised the utilities to submit the reports timely to NERLDC in line with the IEGC 2023.

B.5 Non-operation of auto recloser in Important Grid Elements for transient faults in September 2024:

As updated in 73rd PCCM -

S1.	Element Name	Tripping Date and Time	RELAY_A	RELAY_B	Auto- Recloser not Operated	Remarks from Utility (73rd PCCM)
1	400 kV PK Bari-Silchar I Line	06:26 Hrs of 01-10- 2024	DP, ZI, R-N, A/R successful	DP, ZI, Y-N	Silchar	with relay. Now resolved.
2	132 kV Dimapur(PG)- Kohima Line	14:00 Hrs of 01-10- 2024	DP, ZI, B-N	A/R successful	Dimapur(P G)	A/R unsuccessf ul at both ends due to persisting fault.
3	132 kV Jiribam- Loktak Line	03:26 Hrs of 12-10- 2024	DP, ZI, R-Y-B-N, A/R successful	DP, ZII, R-Y-B-N (DR not opening)	Loktak	NHPC absent
4	220 kV Agia- Boko Line	11:20 Hrs of 12-10- 2024	DP, ZI, B-N	DP, ZI, B-N, A/R successful	Agia	Issue with Pole discrepan cy relay at Agia end. Now replaced.
5	132 kV Dimpaur- Imphal Line	02:59 Hrs of 25-10- 2024	DP, ZII, B-N, Carrier aided tripping	DR not submitted	Dimapur, Imphal	Persistent fault, so no AR

S1.	Element Name	Tripping Date and Time	RELAY_A	RELAY_B	Auto- Recloser not Operated	Remarks from Utility (73rd PCCM)
1	400 kV PK Bari-Silchar I Line	06:26 Hrs of 01-10- 2024	DP, ZI, R-N, A/R successful	DP, ZI, Y-N	Silchar	Issue with relay. Now resolved.
2	132 kV Dimapur(PG)- Kohima Line	14:00 Hrs of 01-10- 2024	DP, ZI, B-N	A/R successful	Dimapur(P G)	A/R unsuccessf ul at both ends due to persisting fault.
6	132 kV AGTCCPP-PK Bari II Line	08:59 Hrs of 28-10- 2024	DP, ZII, B-N, Carrier aid trip, A/R successful	DP, ZI, B-N	PK Bari	Fault detected in ZII and issued trip command. Hence, A/R did not operate.

Deliberation of the sub-committee

Utilities updated in the table 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 10th of every month for previous month indices, which shall be reviewed by the RPC.

As on 11.11.2024, **NETC, MUML, DoP Nagaland, OTPC, TPTL, MePGCL, MePTCL, AEGCL and NERTS** has submitted protection performance indices for the month of October'24.

SN	Name of Transmission Licencee	D= (Nc/Nc+Nf)	S= (Nc/Nc+Nu)	R= (Nc/Nc+Ni)	Remarks
1	NETC	-	-	-	No bays owned by NETC
2	MUML	-	-	-	No tripping during Oct'24
3	DoP Nagaland	1	1	1	
4	OTPC	1	1	1	
5	TPTL	1	1	1	
6	AEGCL	1	0.78	0.78	 Spurious tripping of 220 kV BTPS-Rangia II line at Rangia end on 10.10.2024. Unwanted tripping of 100 MVA ICT-I at Tinsukia on 11.10.2024, 12.10.2024 & 14.10.2024

					due to DC
					earth fault.
					• Unwanted
					tripping of 220
					kV Behiating-
					Tinsukia D/C
					lines &
					220/132 kV
					ICT-I&II at
					Behiating for
					fault in 132 kV
					Dibrugarh-
					Tinsukia line
					on 28.10.2024.
7	MePGCL	1	1	1	
			-	*	
8	MePTCL	1	1	1	
9	NERTS	1	1	1	

Protection Performance Indices not received from transmission utilities such as **NTL**, **KMTL**, **MSPCL** and **DoP** AP. Also, not received from Generating companies such as **NHPC**, **NEEPCO** and **APGCL**.

Therefore, all Users are requested to furnish performance indices (Dependability-D, Security-S, Reliability-R) with regards to the tripping of elements to NERPC & NERLDC positively by **10th** of every month for previous month indices in compliance with IEGC.

Deliberation of the sub-committee

NERLDC highlighted that NETC, MUML, DoP Nagaland, OTPC, TPTL, AEGCL, MePGCL, MePTCL, NERTS, NTL & NEEPCO has submitted Protection Performance Indices for October'24. KMTL, MSPCL, DoP AP, NHPC and APGCL not submitted.

Forum requested all the utilities for timely submission of Protection performance indices.

B.7 Tripping of 220 kV Misa-Kopili III line on 06-09-2024:

At 01:52 Hrs & 02:52 Hrs of 06-09-2024, 220 kV Misa-Kopili III line tripped.

As per submitted DR, there was no fault observed in the system. At Misa end, 86 relay operated at 01:52:37.051 Hrs and 02:52:06.635 Hrs on receipt of DT as per EL. From submitted DR of Kopili, CB opening at Kopili is not clear.

Time drift of 16 min observed in EL of Misa end. The same needs to be corrected by NERTS.

As informed by NEEPCO, there was sparking observed in Bus isolator at Kopili. *NEEPCO is requested to share the root cause and remedial measures taken.*

Deliberation of the sub-committee

- 1. NEEPCO stated that the reason for generation of DT will be checked thoroughly during the upcoming shutdown. The forum requested NEEPCO to share the settings of the 220kV Kopili-Misa line to NERPC and NERLDC.
- 2. NEEPCO informed that there was sparking observed in Bus isolator at Kopili Bus-B. Subsequently, 220 kV Misa-Kopili III line was shifted to Bus-A from Bus-B. However, the line tripped again.
- 3. NEEPCO informed that shutdown of Kopili Bus will be planned for thorough investigation of the event. Kopili Bus-A setting will be checked by NEEPCO.
- 4. Forum referred the matter to PSAG for further analysis.

B.8 Tripping of 132 kV Pare-Nirjuli line on 23-09-2024:

At 22:01 Hrs of 23-09-2024, 132 kV Pare-Nirjuli line tripped.

As per DR analysis, R-Y fault (Ir-1.7 kA, Iy-1.6 kA) initiated at 22:00:50.016 Hrs. At Pare end, DP, ZIII started at 22:00:50.034 Hrs and fault current disappears after 150 msec. Total fault duration: 167 msec. There was no tripping from Nirjuli end (DR/EL not submitted).

It is unclear which protection system operated and cleared the fault.

NEEPCO is requested to:

- 1. Share root cause of tripping and remedial measures taken.
- 2. Furnish which relay issued trip command to Pare CB.

Deliberation of the sub-committee

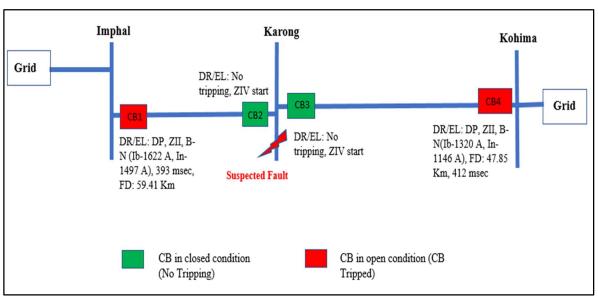
NERLDC informed that the tripping at Pare end occurred on high set O/C protection, which is in violation of the NERPC protection protocol.

NEEPCO informed that Stage-2 Overcurrent setting in the Backup relay at Pare end has been disabled.

B.9 Grid Disturbance in Karong area of Manipur on 13-10-2024:

Karong area of Manipur Power System was connected with rest of NER Grid through 132 kV Kohima-Karong line and 132 kV Imphal(MA) –Karong line.

At 23:37 Hrs of 13-10-2024, 132 kV Kohima-Karong line and 132 kV Imphal(MA) – Karong line tripped due to which grid disturbance occurred in Karong area of Manipur. Load loss of 7 MW occurred.



Following observations:

- B-N fault initiated at 23:36 Hrs & cleared within 412 msec from Kohima end and within 393 msec from Imphal end on operation of DP, ZII. There was no tripping from Karong end. ZIV started for both 132 kV Imphal-Karong line & 132 kV Karong-Kohima line.
- Suspected fault is in 132 kV Karong Bus /downstream feeder which was cleared by tripping of 132 kV Imphal-Karong line and 132 kV Karong-Kohima line from remote ends.
- Time drift of 2 min observed at Imphal end for 132 kV Imphal-Karong line which need to be sync with GPS by MSPCL.

MSPCL is requested to update the root cause of the event and remedial measures taken.

Deliberation of the sub-committee

Forum decided that the matter to be taken up separately by NERPC with concerned officials of Manipur. Also, Forum suggested that protection audit needs to be conducted in Karong S/S.

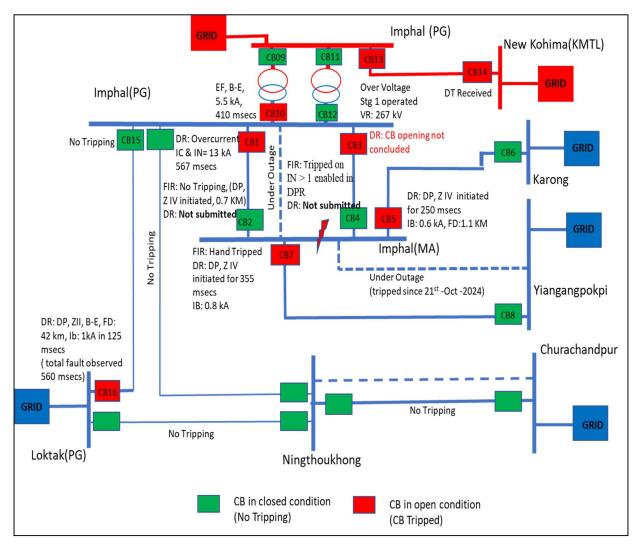
B.10 Grid Disturbance in the Imphal (Yurembam) substation of Manipur power system on 28th October 2024:

Imphal (Yurembam) area i.e. the capital area of Manipur is connected with rest of the NER grid mainly through 3 numbers of 132 kV Imphal(PG)- Imphal(Yurembam) Lines. Also, Imphal(Yurembam) is connected with Yiangangpokpi SS through 2 numbers of 132 kV Imphal (Yurembam) - Yaingangpokpi 1&2 Lines and connected with Karong SS through 1 number of 132 kV Imphal (MSPCL) - Karong Line.

Before the event, 132 kV Imphal (PG)- Imphal (Yurembam) 2 Line and 132 kV Imphal (Yurembam) - Yaingangpokpi 2 Lines was under planned shutdown.

At 13:30 Hrs of 28th October 2024, due to heavy fault in Imphal (Yurembam) SS, all the connected lines i.e. 132 kV Imphal (PG)- Imphal(Yurembam) 1 &3 Lines, 132 kV Imphal (Yurembam) - Yaingangpokpi 1 Lines and 132 kV Imphal (MSPCL) - Karong Line tripped resulted into the Grid Disturbance (Category 1) in the Imphal(Yurembam) substation of Manipur power system. Due to the event, load loss of 50 MW observed in the Capital area of Manipur power system.

Additionally, tripping of 400/132 kV, 315 MVA, ICT I at Imphal (PG), 132 kV Imphal (PG) - Loktak Line and 400 kV Imphal(PG) - New Kohima 1 Line observed during the time.



As per event analysis based on the DR & EL, DP, ZIV initiated at Imphal (Yurembam) for Imphal(PG) 1 line, Karong line and Yaingangpokpi 1 line indicates that fault location is in the Imphal (Yurembam) Substation. The fault persisted in the system for 560-567 msecs.

As informed by MSPCL, B-phase Bus jumper snapped at Yurembam S/S. Major Protection issues observed are as follows:

- 1. 132 kV Imphal(PG)- Imphal(Yurembam) 1 Line tripped on Overcurrent at Imphal(PG) end in 567 msecs. However, the same was not detected by the Main Relay. To be checked by NERTS.
- 2. 315 MVA ICT I at Imphal(PG) tripped at 132 kV side on Backup E/F in 410 msecs on reverse fault. Directionality of the LV side backup relay need to be rectified by NERTS.
- 3. High Voltage of Vre: 267 kV observed in the Imphal(PG) end of the 400 kV Imphal(PG) New Kohima 1 Line after the tripping of Tie CB of 315 MVA, ICT-

1 which resulted into the tripping of the line. NERTS is requested to check & rectify the reason for HV in the R-Phase of 400 kV Imphal(PG) - New Kohima 1 Line.

- 4. 132 kV Imphal (PG) Loktak Line detected the fault in ZIII for 420 msecs & then ZII initiated and tripped the CB in next 125 msecs. However, ZII time delay need to be reviewed by NHPC.
- 5. Tripping of 132 kV Imphal (Yurembam) Yaingangpokpi 1 Line, 132 kV Imphal (MSPCL) Karong Line and 132 kV Imphal(PG)- Imphal(Yurembam) 3 Lines could not be concluded due to non-availability of the DR & EL of Yaingangpokpi, Karong and Imphal (Yurembam) end. MSPCL is requested to share the DR & EL files.
- 6. DR time synch Issue observed in the submitted DR for CB3 and CB7. MSPCL is requested to rectify the same for proper analysis purpose.

MSPCL is requested to share the actual reason for the GD at Imphal (Yurembam) and its corrective measures taken.

Also, **NERTS & NHPC** is requested to provide update on the above-mentioned issues.

Deliberation of the sub-committee

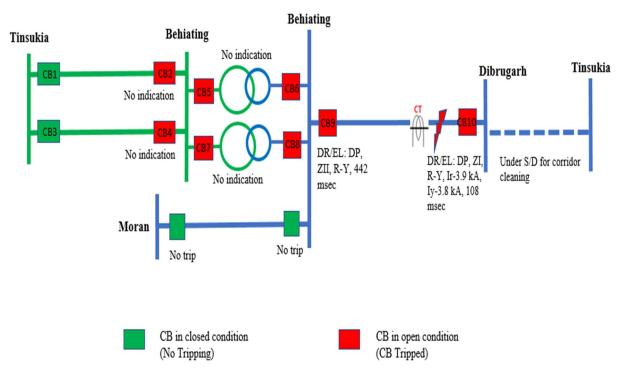
- 1. Manipur stated, regarding the root cause of the fault, that fault initiated due to B-phase Bus jumper snapping at Yurembam SS, however further investigation are underway to ascertain the correct root cause of the fault.
- 2. NERTS informed that for 132 kV Imphal(PG)-Imphal(Yurembam) III line, Bay at Imphal(PG) owned by MSPCL and relay did not sense any fault during the event.
- 3. 132 kV Imphal(PG)- Imphal(Yurembam) 1 Line tripped on Overcurrent at Imphal(PG) end in 567 msecs. NERTS informed that distance relay sensed the fault in ZIII.
- 4. NERTS informed there was some wiring issue in 315 MVA ICT-I at Imphal which has been rectified.
- 5. NERTS informed O/V at Imphal(PG) was caused in 400 kV Imphal-New Kohima I line during switching of PT selection relays during trip of ICT-1 in which contact of PT selection relay was found burnt & continuously shorted. The same has been replaced.
- 6. NERLDC emphasized the importance of having a Standard Operating Procedure for any switching operation to prevent any human error.

7. The forum opined that the incident involves multiple failure of protection system at connecting substations and lines and therefore referred the matter to PSAG for further analysis and finalization of remedial actions.

B.11 Grid Disturbance in Dibrugarh area in Assam on 29-10-2024:

Dibrugarh area of Assam Power System was connected with rest of NER Power system through 132kV Behiating- Dibrugarh line. Prior to the event, 132 kV Tinsukia-Dibrugarh was under S/D for corridor cleaning.

At 09:05 Hrs of 28-10-2024, 132 kV Behiating- Dibrugarh, 220 kV Behiating-Tinsukia D/C lines & 2x100 MVA 220/132 kV ICTs at Behiating tripped leading to blackout in Dibrugarh area of Assam.



As per DR analysis, solid R-Y phase fault (Ir-3.9 kA, Iy-3.8 kA) in 132 kV Dibrugarh-Behiating line initiated at 09:05:53.331 Hrs and cleared within 108 msec on operation of DP, ZI from Dibrugarh end and within 442 msec from Behiating end on operation of DP, ZII.

As informed by AEGCL, fault is between CT and Line Isolator (RØ-YØ) of 132 kV Dibrugarh – Behiating Line.

Following observations:

- 220 kV Behiating-Tinsukia I & II lines tripped from Behiating end within 265 msec of inception of fault. It is unclear which protection system operated at Behiating.
- 2. 220/132 kV Behiating ICT-I&II tripped. As per EL, O/C started at 09:05:53.386 Hrs. HV side CB open at 09:05:53.600 Hrs.
- 3. Tripping of upstream 220 kV Behiating-Tinsukia D/C lines & 220/132 kV Behiating ICT-I&II for fault in 132 kV Dibrugarh-Behiating line seems to be unwanted.

AEGCL is requested to update the findings and review the protection setting of 220 kV Behiating-Tinsukia D/C lines & 220/132 kV ICT-I&II at Behiating to prevent further re-occurrence of such events.

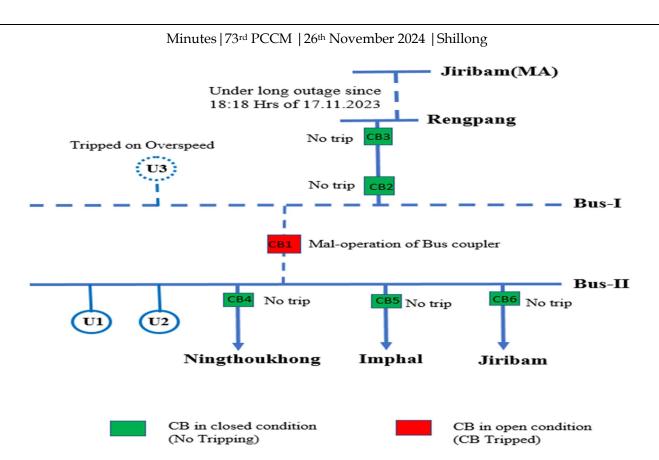
Deliberation of the sub-committee

- 1. AEGCL informed that fault is between CT and Line Isolator (RØ-YØ) of 132 kV Dibrugarh Behiating Line.
- 2. AEGCL informed that O&M of Behiating substation is under NERPSIP and as per the NERPSIP team, LBB logic was fulfilled in 220 kV Behiating-Tinsukia I line due to master trip operated signal high intentionally in the logic and LBB protection operated at 220 kV Behiating due to which 220 kV Behiating-Tinsukia I & II lines and 220/132 kV Behiating ICT-I&II tripped. He further informed that the issue of master trip high has been resolved by NERPSIP.
- 3. NERLDC highlighted the absence of Carrier inter-trip scheme in 132 kV Dibrugarh-Behiating line. The same needs to be reviewed by AEGCL.
- 4. Forum asked AEGCL to review the protection setting at Behiating S/S thoroughly.

B.12 Grid Disturbance in Rengpang area in Manipur on 29-10-2024:

Rengpang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Rengpang line. 132 kV Jiribam -Rengpang line was under outage since 18:18 Hrs of 17.11.2023.

Prior to the event, 132 kV Loktak-Rengpang line & Loktak Unit-3 were connected to 132 kV Loktak Bus-I. 132 kV Loktak-Ningthoukhong, 132 kV Loktak-Imphal & 132 kV Loktak-Jiribam lines were connected to 132 kV Loktak Bus-II.



At 22:26 Hrs of 29-10-2024, Bus coupler breaker of Loktak mal-operated (as informed by NHPC verbally) due to which 132 kV Loktak Bus-I got isolated and Rengpang area got separated due to load-generation mismatch in this area.

NHPC, Loktak is requested to furnish the reason of mal-operation of Bus coupler at Loktak.

Deliberation of the sub-committee

NHPC informed that the Bus coupler (BC) mal-operated because of some problem in wiring of the tripping circuit of breaker. He further updated that the issues have been resolved and the CB/BC will be charged today.

The forum opined that had the feeders been segregated equally between the buses, the GD would not have occurred. The forum advised NHPC to follow the practice of segregation of feeders. NHPC assured to follow the practice.

B.13 Frequent operation of auto-recloser/tripping of 400 kV Silchar-Misa D/C lines during Sept'24 & Oct'24:

During September'24 to October'24, there were 6 numbers of Auto-Reclosure/tripping of 400 kV Misa-Silchar D/C lines.

The details of tripping are shown below:

Sl. No.	Name of element	Tripping time	Reason	
1	400 kV Silchar-Misa I line	00:07 Hrs of 08.09.2024	AR operated successfully both ends	
2	400 kV Silchar-Misa II line	06:04 Hrs of 08.09.2024	Phase-phase fault cleared within 51 msec on ZI from both ends	
3	400 kV Silchar-Misa II line	09:09 Hrs of 21.10.2024	Phase-Earth fault. AR attempted at both ends after 1.25 sec and tripped on reclaim time	
4	400 kV Silchar-Misa II line	09:30 Hrs of 22.10.2024	AR operated successfully both ends	
5	400 kV Silchar-Misa II line	01:25 Hrs of 24.10.2024	AR operated successfully both ends	
6	400 kV Silchar-Misa II line	17:39 Hrs of 24.10.2024	AR operated successfully both ends	

Such frequent tripping compromises grid operational security and impacts the circuit breaker (CB) also. This repetitive CB operation puts stress on the CB and GIS equipment, potentially reducing their lifespan.

NTL is requested to ensure the healthiness of the line, share the reason of such tripping and corrective measures taken.

Deliberation of the sub-committee

NTL stated that patrolling has been carried out but no specific reason for the tripping could be found out. Further, NTL opined that the faults might be due to vegetation which are outside corridor but might have come in induction zone during windy condition.

B.14 Non-operation of Special Protection Scheme (SPS) for reliable power supply to Arunachal Pradesh via Chapakhowa-Roing line:

On 21st October'24, at 16:48 Hrs and 17:24 Hrs, SPS related to 132 kV Tinsukia-Ledo & 132 kV Tinsukia-Rupai lines operated while 132 kV Tinsukia-Ledo line was under shutdown.

During both the instances, loading of 132 kV Tinsukia-Rupai line exceeded the predefined loading limit as per SPS for reliable power supply to Arunachal Pradesh via Chapakhowa-Roing line. Subsequently, SPS operation signals were triggered and received at 132 kV Rupai GSS. However, due to non-healthiness of OPGW link in 132 kV Rupai-Chapakhowa line, SPS stage 1 operation signals were not received at

132 kV Chapakhowa due to which 132 kV Chapakhowa-Roing D/C lines along with 20 MVAR Bus Reactor at Roing GSS did not trip.

SPS stage 2 operated at 132 kV Rupai S/S resulting in tripping of 2 nos. of 33 kV feeders of Rupai S/S.

AEGCL is requested to provide update on the healthiness of OPGW link in 132 kV Rupai-Chapakhowa line.

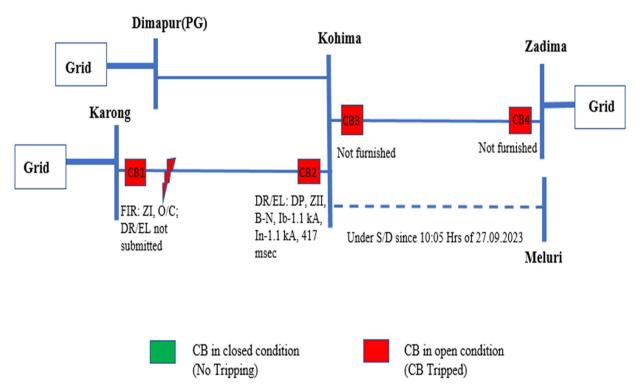
Deliberation of the sub-committee

AEGCL stated, regarding healthiness of the OPGW link on the 132 kV Rupai-Chapkhowa line, that the link is under purview of NERPSIP Powergrid. The forum stated that the matter will be taken up separately with the NERPSIP.

Also, the forum opined that the flow of signal from Rupai to Chapakhowa may be explored through PLCC also.

B.15 Tripping of 132 kV Karong-Kohima line & 132 kV Kohima- Zadima line on 02-Nov-2024:

At 10:58 Hrs of 02-Nov-2024, 132 kV Karong-Kohima & Kohima- Zadima lines tripped.



As per FIR, submitted by MSPCL, tripping occurred at Karong end on operation of OC, ZI.

As per DR analysis, metallic B-N fault (Ib-1.1 kA, In-1.1 kA) initiated at 10:57:30.743 Hrs and cleared within 417 msec from Kohima end on operation of DP, ZII from Kohima end which indicates that fault is in 132 kV Karong-Kohima Line.

At the same time, 132 kV Kohima-Zadima line tripped which is unwanted. DoP, Nagaland/MSPCL is requested to share:

- Root cause of tripping of 132 kV Karong-Kohima line.
- Reason for non-submission of DR/tripping of 132 kV Kohima- Zadima line from Zadima.
- FIR, DR & EL of Kohima & Zadima end for 132 kV Kohima-Zadima line. DR & EL at Karong end for 132 kV Karong-Kohima line.

Deliberation of the sub-committee

MSPCL informed that the root cause analysis will be provided shortly to NERLDC. Regarding tripping at Zadima, DoP Nagaland informed that the DR could not be downloaded from the relay due to some issues. Also, due to lack of manpower in Zadima S/S, proper information regarding tripping of 132 kV Kohima-Zadima line could not be received.

NERLDC stated that due to non-availability of DR etc., analysis of the event could not be done.

The forum strongly urged DoP Nagaland and MSPCL to provide the required data to NERLDC at the earliest. Forum also opined that the B/U protection settings at Zadima end need to be revised and asked DoP Nagaland to revise the same in coordination with NERPSIP under guidance of NERPC and NERLDC.

B.16 Mock Testing of SPS in NER:

In line with the Regulation of IEGC-23, the following mock testing are already performed/ planned in the North Eastern Region are as follows: -

Serial	Scheme	Date of Mock Testing
Number	Scheme	Performed
1	SPS related to outage of 220 kV Azara- Sarusajai DC/220 kV Misa-Samaguri DC	23-Jun-24
2	Related to the tripping of Bus Reactors at 400 kV S M Nagar (ISTS) to prevent under voltage situation	05-Aug-24

3	Related to the tripping of Bus Reactors at 400 kV P K Bari (ISTS) to prevent under voltage	06-Aug-24	
	situation		
4	Related to outage of any one circuit of 132 kV	26-Sep-24	
_	Dimapur(PG)- Dimapur(NA) D/C	20-5cp-2+	
5	Related to the safe evacuation of power from	10-Oct-24	
	BgTPP(NTPC) generation	10 000 21	
6	Related to the outage of any one circuit of the	Planned on 22 nd Nov'24	
	132 KV Khliehriat (PG)- Khliehriat D/C line		

List of SPS scheme for which yearly mock testing yet to be planned (as updated in $73^{\rm rd}$ PCCM by the utilities): -

Sl. No.	Scheme	Remarks
1	SPS related to the outage of 132 kV Panyor HEP-Ziro Line - disconnection of 33kV Load at Ziro	Operated Correctly in April'24
2	Outage of 220 kV BTPS (Salakati) – Rangia I & II - load shedding	Operated Correctly in Aug'24
3	Related to Generation evacuation from Monarchak(NEEPCO) Power Plant - Tripping of STG at Monarchak	Operated Correctly in July'24
4	Related to outage of any one circuit of 220 kV Balipara-Sonabil D/C	Operated Correctly in Mar'24 (Triggering criteria 2)

5	SPS related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia-Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed.	Operated Correctly in Sep'24 (Triggering criteria 2)
6	Tripping of 400kV Palatana-Silchar D/C-when both modules of Palatana are in service causes tripping of HV side breaker of 2x125 MVA, 400/132 kV ICT at Palatana	SPS is kept OFF
7	SPS related to overloading of 220kV BTPS-Salakati D/C- Tripping of 220kV Agia – Boko and 220kV Agia – Mirza	SPS is kept OFF
8	Reverse power flow more than 60 MW from LV to HV side of 2 X 315 MVA, 400/220 kV Azara ICTs causes tripping of 400/220 kV, 2x315 MVA ICTs at Azara (AEGCL)	`
9	Tripping of 132 kV Umiam Stg-I to Umiam Stg-III D/C lines causes instantaneous load shedding near Mawphlang area	SPS is kept OFF (operated in May'24)
10	Related to the tripping of Bus Reactors at 400 kV Imphal (PG)	After commissioning of GIS. Jan'25
11	Related to Outage of any one of the 400/132kV 2x360MVA ICTs at Panyor Lower Hydro Power Station	By Dec'24

	Minutes 73 rd PCCM 26 th November 2024 Shi	llong
12	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)	By Jan'25
13	Related to Outage of both 400/132 kV, 2x125 MVA ICTs at Palatana - Entire load disconnection of South Comilla by way of tripping of 132kV SM Nagar-South Comilla D/C	By Jan'25
14	Related to the outage of any one circuit of the 132 kV Khliehriat (PG)- Khliehriat D/C line	Done on 22nd November'24
15	Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C	2 nd week of Dec'24
16	SPS related to 132 kV Surajmaninagar(ISTS)-Surajmaninagar(TSECL) line to prevent	Implemented on 11.11.2024 after

It is requested the forum to avoid mock testing of SPS scheme operated correctly in 2024 and propose the tentative dates of mock testing of remaining SPS so that it can be completed within March'25 in compliance with IEGC-23.

necessary testing

Deliberation of the sub-committee

overloading

Utilities updated about the SPS testing schedule in the table as above.

Agenda from NLDC

B.17 Uniform Protection protocol

The Uniform Protection Protocol has been approved by 15th NPC on 14.11.24 It is requested to please include following agendas from NLDC:

- 1) Review of protection setting of following power system elements
 - · 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.

Deliberation of the sub-committee

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 ben constituted in 71st PCCM for the purpose and the first meeting of the sub-group will be held shortly.

B.18 parameter standardization of Disturbance Recorder (DR)

States may update on status of uniform adoption parameter standardization of Disturbance Recorder (DR), as finalized in FOLD.

Deliberation of the sub-committee

The forum noted that the parameter standardization of DR has been made part of the NERPC Protection protocol and strongly urged the states to implement the same at the earliest.

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

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

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

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

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

In 70th PCCM,_NERLDC informed that only Nagaland, Manipur and Mizoram are submitting the monthly progress report, while Arunachal Pradesh and Tripura have not yet shared any monthly report. The forum strongly urged Ar. Pradesh and Tripura to provide the reports within two working days.

NERLDC informed in 72nd PCCM that only Manipur has sent the monthly progress report for July and August'24. The forum urged the other states to provide the monthly reports at the earliest and on priority to NERPC and NERLDC.

Deliberation of the sub-committee

NERLDC informed that no state has provided the progress report for the month of Oct'24. He added that Tripura has not submitted any monthly progress report so far. The forum strongly asked the states to submit the monthly report and ensure compliance with CERC order.

Tripura assured to start providing the reports 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:

As updated in 73rd PCCM

S1 N	Element Name	Trippin g date and time	Relay End1	Relay End2	A/R not Operated	Remarks from Utility (72 nd PCCM)
1	132 kV Agartala - Surajmanina gar 2 Line	17-11- 2023 15:10	DP,ZI,Y-B,FD:5.81km, AR successfu	DP,ZI,R- Y,FD:11.98 KM	Surajman inagar	The Relay Testing kit has been received last week. AR (without carrier) to be

	Minutes 73 rd PCCM 26 th November 2024 Shillong					
						enabled by Dec'24
2	132 kV Dimapur - Doyang 2	29-03- 2024 13:10	DP, Z1, R- Y, FD: 72.6km	DP, Z1, R- Y	Doyang	CB procurement underway. By March'25
3	220 kV AGBPP - Mariani (PG) Line	01-05- 2024 03:12	Z1, B-N, 24.97 Kms	DP, ZI, B- E, FD: 131.4 KM, Operated Sucessful ly	AGBPP	WIP, completion by Nov'24
4	132 kV Badarpur - Karimganj Line	05-05- 2024 13:48	DP, ZII, Y-E, FD:27.25K M, Carrier Aided tripping & AR Operated Successfull y	DP, ZI, Y- E, FD: 0.2km	Karimganj	Relay shifting, from Jorhat. Work will be completed in the upcoming shutdown.
5	400 kV Byrnihat- Silchar Line	02-09- 2024 16:53	DP, ZII, Y-N	DP, ZI, B- N, Carrier send	Both ends	Sil: tie breaker stuck, LBB operated so no AR. Byrnihat: DT received, so no AR

Minutes 73 rd PCCM 26 th November 2024 Shillong							
							Spring charge
							status high, so
	220	kV					no AR attempt.
	Mariani-	ΚV	13-09-	DP, ZI, B-	DP, ZII, B-		Issue in the
6	Samaguri Line	2024	N, AR	N, Carrier	Samaguri	contactor.	
			12:17	successful	aided trip		Contactor to be
							changed if and
							when next
							incident occurs.
	220	kV	27-09-				Will check for
7	Amguri-N7		2024	DP, ZI, B-N	DP, ZII, B-	Both ends	both ends and
'	Line	110	11:50	DI, ZI, D-N	N	Dom chas	update by next
	LIIIC		11.50				PCC

Sub-committee noted as above

C.3 PLCC issues follow up:

Update as provided by utilities in 72nd PCCM

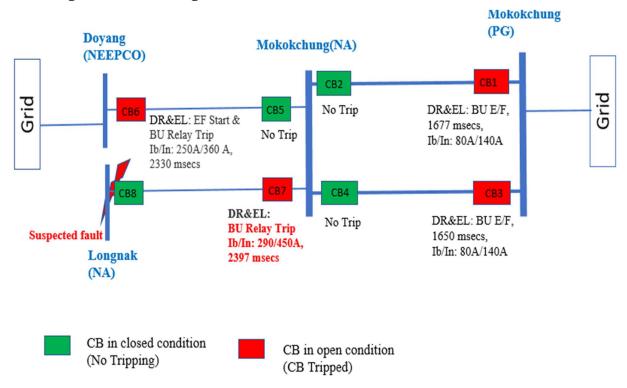
S1.	Line	Utility	Update
No			
1	132 kV Dimapur-Kohima	DoP	DPR (for DTPC) is completed except
		Nagaland	for budgetary offer. Offer has not
			been received from Hitachi yet.
2	132 kV Melriat-Zemabawk	Mizoram	For Wave Trap order has been placed
			with GE. Order will be received after
			4 months as communicated by GE.
			Forum had suggested that both
			PLCC and DTPC has to be enabled.
			POWERGRID shall install only the
			PLCC. CVT installed.

			Regarding	the	DTPC,	DPR
			completed,	to be	sent to	PSDF
			shortly.			
3	132 kV Roing-Pashighat	DoP Ar.	PGCIL upda	ated that	OEM wil	l visit in
		Pradesh	15-20 da	ys. P	LCC w	rill be
			commission	ed by D	ec'24.	

Sub-committee noted as above

C.4 Grid Disturbance in Mokokchung(NL) and Longnak areas of Nagaland power system on 07-09-2024:

At 15:43 Hrs of 07-09-2024, 132 kV Mokokchung (PG) - Mokokchung (NL) D/C Lines, 132 kV Doyang - Mokokchung (NL) Line and 132 kV Mokokchung(NL)-Longnak Line tripped due to which grid disturbance occurred in Mokokchung(NL) and Longnak areas of Nagaland.



Analysis based on DR signal:

• Mokokchung(PG): Y-N fault initiated at 15:42:32.784 Hrs. CB opens in 1.67 sec by opening 132 kV Mokokchung(PG)-Mokokchung(NL) 1&2 line on

operation of B/U E/F. Fault current of Ib: 80-90A & In: 140A observed in each line.

- Doyang(NEEPCO): CB opens in 2.3 sec on operation of backup relay trip. Fault current of Ib: 200-250A & In: 230A observed.
- Mokokchung(NL): CB opens in 2.3-2.4 seconds on operation of backup E/F.
 Fault current of Ib: 290A & In: 450A observed.

As per report from DoP Nagaland, insulation failure of 132/33 kV ICT-II in between HV to body at Longnak observed. R-Phase jumper Open at fault distance of 10 Km in 132 kV Mokokchung-Longnak Line and same has rectified at 13:30 hrs on 09.09.2024.

Following observations:

- Protection system of 132/33 kV ICT-II at Longnak failed to isolate fault in ICT which was cleared by operation of Backup Relay at Mokokchung(PG), Doyang(NEEPCO) & Mokokchung(NL). The same needs to be checked by DoP Nagaland.
- 2. 132 kV Mokokchung(NL)-Longnak line tripped from Mokokchung(NL) end within 2.4 sec for fault in 132/33 kV Longnak ICT-II. As per existing setting, B/U EF pickup 75A, TMS: 0.20. With this setting the fault should clear from Mokokchung SS (for 132 kV Longnak Line) within 767 msec with neutral current of 450 A. NERLDC has already shared mail on 16th September'24 to DoP Nagaland to carry out the following
 - i) The reason of non-clearance of fault and its corrective measures to prevent repetition. Also, requested to test the relay to ensure the healthiness of the protection system.
 - ii) Non-operation of distance protection at Mokokchung(NL) end for 132 kV Mokokchung(NL)-Longnak line needs to be checked.

Similar incident occurred at 21:36 Hrs of 07.09.2024.

DoP Nagaland may update.

In 72nd PCCM, Nagaland informed that the fault was in the 132/33kV transformer at the Longnak SS. The forum noted –

- i. The transformer differential protection should have isolated the fault and requested DoP Nagaland to check the protection system of the ICT
- ii. There was delayed operation of the B/U protection at Mokokchung(NA) and requested Nagaland to revise the settings in coordination with NERPC and NERLDC
- iii. B/U protection at Doyang should have operated faster than that at Mokokchung (PG) as the fault current was higher and requested NEEPCO, PGCIL to coordinate the settings.

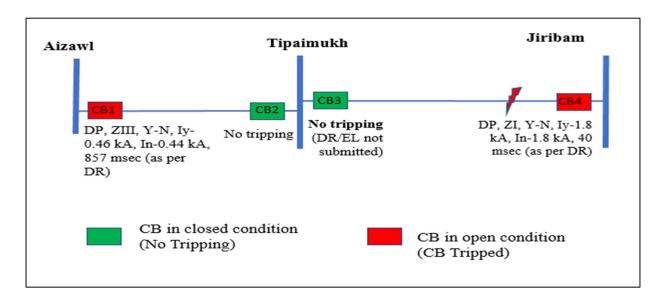
Deliberation of the sub-committee

DoP Nagaland updated that the fault was in the 132 kV Mokokchung-Longnak line, not the ICTs at Longnak as informed in previous PCCM. He further stated that delayed clearance of fault occurred due to some issues with Master Trip relay and the same will be relaced by 1st week of Dec'24.

Regarding coordination of B/U protection at Mokokchung(PG) and Doyang substations, the forum directed PGCIL and NEEPCO take necessary actions at the earliest.

C.5 Tripping of 132 kV Aizawl-Tipaimukh line on 30th August, 2024

At 09:32 Hrs of 30.08.2024, 132 kV Aizawl-Tipaimukh and 132 kV Jiribam-Tipaimukh lines tripped.



As per DR analysis, Y-N fault in 132 kV Jiribam-Tipaimukh line cleared within 40 msec from Jiribam end on operation of DP, ZI. Carrier signal was sent to Tipaimukh end from Jiribam. However, CB at Tipaimukh end did not trip until 800 msec from inception of fault which led to clearing of fault by tripping of healthy 132 kV Aizawl-Tipaimukh line from Aizawl end on operation of DP, ZIII within 857 msec.

Similar incident occurred on 25.08.2024.

MSPCL is requested to furnish the reason for non-opening of CB at Tipaimukh end for 132 kV Jiribam-Tipaimukh line and remedial actions taken.

In 71st PCCM, Manipur representative informed that checking by local staffs was done recently but expert visit was required. He further informed the forum that due to landslide issue road was not approachable for them to send any skilled staff to Tipaimukh SS to download DR/EL for the event for further analysis and submission to NERLDC. He further stated that access to Tipaimukh was through Aizawl only. Therefore, Manipur requested the forum to provide support either from Mizoram or NERTS.

Forum requested Mizoram & NERTS to provide necessary support to Manipur at earliest.

In 73rd PCCM, MSPCL informed that support from PGCIL and Mizoram is required to access the site. Mizoram and PGCIL requested MSPCL to formally initiate the request to them for the support.

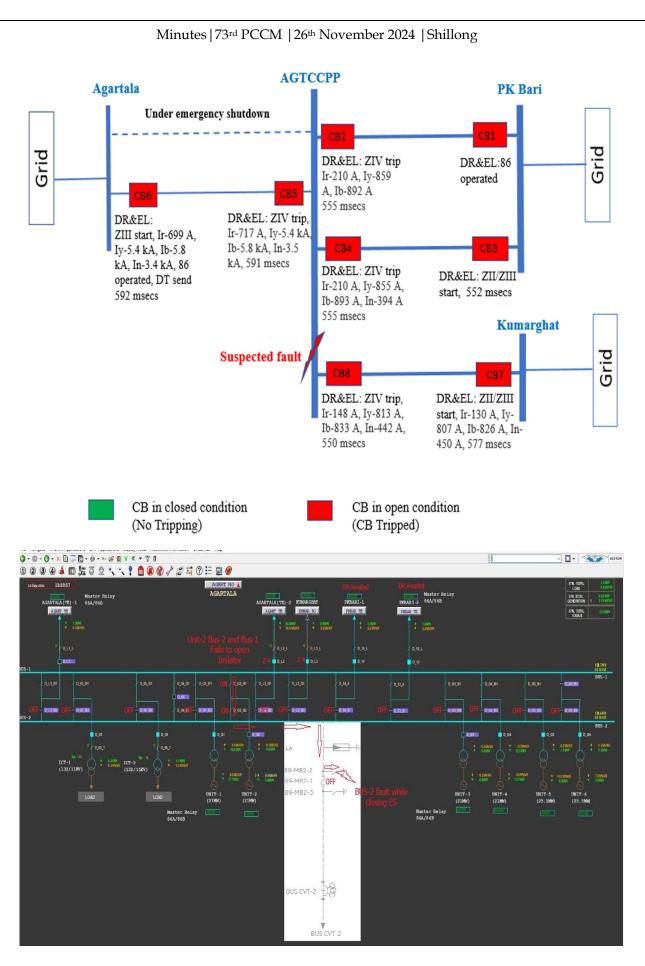
MSPCL may update

Deliberation of the sub-committee

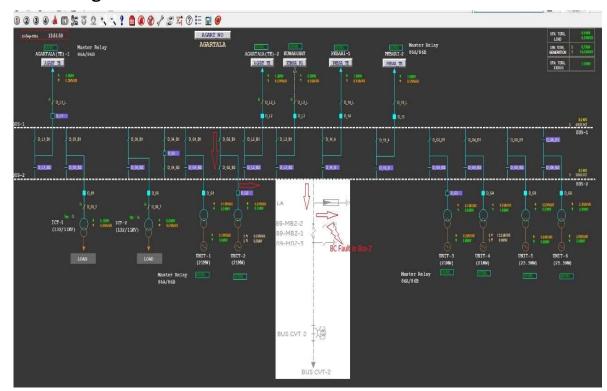
Mizoram and PGCIL informed that no request from Manipur has been initiated for MSPCL side for support in accessing the site. The forum asked MSPCL to initiate the necessary communication in this regard.

C.6 Grid Disturbance in AGTCCPP generating station of NEEPCO on 12-09-2024:

At 13:43 Hrs of 12-09-2024, 132 kV AGTCCPP - Kumarghat Line, 132 kV Agartala - AGTCCPP 2 Line and 132 kV AGTCCPP - P K Bari D/C lines tripped due to which AGTCCPP generating station of Tripura power system was blackout due to loss of evacuation path.



SLD during fault



SLD during blackout

Analysis based on DR:

- **AGTCCPP:** R-Y-B-N fault cleared within 555 msec on operation of ZIV for all the lines.
- **PK Bari-I:** 86 relay operated. It is not clear which protection cleared the fault.
- **PK Bari II:** ZII/ZIII start, 86 operated.
- **Agartala II:** ZIII started at Agartala end and 86 relay operated at 13:43:57.563 Hrs. Also, DT send signal high at 13:43:57.563 Hrs. It is not clear which protection cleared the fault.
- **Kumarghat:** ZII operated at 13:45:06.511 Hrs and CB open after 503 msec.

Suspected BUS-2 fault in 132 kV AGTCCPP switchyard while availing emergency shutdown of 132 kV Bus-I as all the lines connected to AGTCCPP tripped on ZIV from AGTCCPP end.

POWERGRID/NEEPCO is requested to:

- Update the root cause of the events and remedial measures taken to prevent in future.
- Furnish the reason of DT send signal from Agartala to AGTCCPP for 132 kV Agartala-AGTCCPP II line.

 Update the reason of non-submission of detailed report of the event as per IEGC 2023.

In 72nd PCCM, NEEPCO informed the forum that the incident caused during the maintenance activities at AGTCPP. However, non-operation of Interlock during Earth Switch operation was undesirable. He further stated that analysis report will be submitted shortly. The forum noted that such actions are very dangerous and strictly urged NEEPCO to be cautious with SOP. The forum also noted that the BB protection did not operate and 86 relay operation at P K Bari is unwanted.

The forum referred the matter to PSAG of NER for further analysis.

Deliberation of the sub-committee

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

C.7 Hands on training on PDMS and PSCT software for carrying out system study:

In order to review the protection settings of NER grid, it is necessary to carry out detailed system study of NER grid using PDMS and PSCT software.

In view of this, an offline hands-on training of the software is required for NERLDC protection team from M/s PRDC.

M/s PRDC is requested to arrange a hands-on training session on PSCT and PDMS software for carrying out necessary studies in the month of November'24.

In 72nd PCCM, the forum requested M/s PRDC to conduct a physical training program on the matter. M/s PRDC stated that the training will be conducted in last week of November. The forum opined that the training may be conducted in NERLDC, Guwahati. NERLDC agreed.

M/s PRDC may update

Deliberation of the sub-committee

M/s PRDC updated that the training could not be conducted in Nov'24 owing to server and power supply related issues. He further stated that the training will be conducted in Jan'25.

C.8 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	STATUS:	
			Enable/Disable,		
			Operated/No	Operated	
			(Condition/Logic	Wise)	

At present, there are 19 numbers of SPS under operation and 1 number of SPS under implementation as listed tabulated below:

S1. No.	SPS under operation	Long term measures	sps mapping status in SCADA (YES/No) as per 69th PCCM
	Tripping of 400kV Palatana-	After commissioning of 400	
1	Silchar D/C-	kV Palatana -	
1	when both modules of Palatana are	Surajmaninagar line-1,	
	in service causes tripping of HV	there is no requirement of	Done

	side breaker of 2x125 MVA, 400/132 kV ICT at Palatana	this SPS and hence, it is to be kept OFF. However, the SPS at Palatana is to be kept ON during shut down of 400 kV Palatana- Surajmaninagar(ISTS) line- 1	
2	Reverse power flow more than 60 MW from LV to HV side of 2 X 315 MVA, 400/220 kV Azara ICTs causes tripping of 400/220 kV, 2x315 MVA ICTs at Azara (AEGCL)	After upgradation of 220 kV BTPS-Salakati D/C lines. (Need to disable after system study of the present condition)	
3	Tripping of 132 kV Umiam Stg-I to Umiam Stg-III D/C lines causes instantaneous load shedding near Mawphlang area	After commissioning of 220 kV Killing-Mawngap D/C lines and re-conductoring of 132kV Lumshnong-Panchgram line, SPS is kept OFF	done
4	SPS related to overloading of 220kV BTPS- Salakati D/C- Tripping of 220kV Agia – Boko and 220kV Agia – Mirza	After upgradation of 220 kV BTPS-Salakati D/C lines, this SPS is kept OFF	done
5	Related to the safe evacuation of power from BgTPP(NTPC) generation - BGTPP generation reduction to 600 MW	-	Done
6	Related to Generation evacuation from Monarchak(NEEPCO) Power Plant - Tripping of STG at Monarchak under outage of any one	Commissioning of 132 kV Monarchak- Surajmaninagar line	
	circuit of 132 kV Monarchak –	, ,	By No'24

	Rokhia line & 132 kV Monarchak-		
	Udaipur		
		Commissioning of 400 kV	
	Outage of 220 kV BTPS (Salakati) –	Rangia SS and LILO of 400	
7	Rangia I & II - load shedding	kV Bongaigaon-Balipara 1	
		& 2 Line at Rangia.	done
	Related to the tripping of Bus		Facing
	Reactors at 400 kV S M Nagar		SCADA
	(ISTS) - Tripping of both circuits of		integration
8	400 kV SM Nagar-PK Bari D/C will	-	issue at P
	trip 2 x 125 MVAR Bus Reactors at		K Bari. To
	SM Nagar (ISTS) to prevent under		be done by
	voltage situation		15 th
	_		Dec'24
	Related to the tripping of Bus		
	Reactors at 400 kV P K Bari		
	(ISTS)		
9	Tripping of both circuits of 400kV	-	
	PK Bari (ISTS) – Silchar(PG) D/C		
	will trip 2 x 125 MVAR Bus Reactors		Same as
	at P K Bari(ISTS) to prevent under voltage situation		Same as point 8
	Related to the tripping of Bus		point o
	Reactors at 400 kV Imphal (PG)		
	Tripping of 400 kV New Kohima –		
10	Imphal D/C during outage of 400	-	
	kV Silchar – Imphal D/C will lead to		
	the tripping of 125 MVAR and 80		
	MVAR Bus Reactor at Imphal(PG)		Done
	Related to Outage of any one of	After restoration of 132 kV	
11	the 400/132kV 2x360MVA ICTs	Panyor -Itanagar & 132 kV	
11	at Panyor Lower Hydro Power	Panyor -Pare line	Ву
ĺ			

$Minutes \,|\, 73^{rd} \,PCCM \,\,|\, 26^{th} \,November \,2024 \,\,|\, Shillong$

	Disconnection of One Unit of		
	Panyor (135 MW) and One Unit of		
	Pare (55 MW)		
	SPS related to outage of 220 kV		
	Azara-Sarusajai DC/220 kV Misa-		
	Samaguri DC -		
	1) On tripping of 220 kV Azara-	Commissioning of 400 kV	
12	Sarusajai D/C: 140-150 MW load	Sonapur Substation. LILO	
	disconnection is to be done at	of 400 kV Bongaigaon-	
	Sarusajai and Kahilipara areas	Byrnihat Line at Sonapur.	1. This
	2) On tripping of 220 kV Misa-		month
	Samaguri DC: Load reduction of		2. By
	50-60 MW at Samaguri area		Dec'24
	SPS related to the outage of 132		
	kV Panyor HEP-Ziro Line -	Commissioning of 132 kV	
13	Tripping of 132 kV Panyor-Ziro will	Khupi - Along Link/220 kV	
	cause disconnection of 33kV Load	AGBPS-Namsai D/C	
	at Ziro		done
	Related to outage of any one circuit	Reconductoring of 132 kV	
14	of 132 kV Dimapur(PG)-	Dimapur(PG)-	Done
	Dimapur(NA) D/C	Dimapur(NA) D/C	
		Reconductoring of 220 kV	
	Related to outage of any one circuit	Balipara-Sonabil D/C lines	
15	of 220 kV Balipara-Sonabil D/C	with higher ampacity and	
	of 220 kV Banpara-Sofiabil D/C	Utilisation of 2 X 160 MVA	
		ICTs at Balipara	By Dec'24
	Related to Outage of 400 kV		
	Palatana - Surajmani Nagar line	Upgradation of 132 kV	
16	(charged at 132 kV) - Tripping of	Surajmaninagar(TSECL) to	
10	400 kV SM Nagar – Comilla D/C	,	
	(charged at 132 kV) during outage	TOU KV	
	of 400 kV Palatana – SM		Done
	(charged at 132 kV) during outage	400 kV	Done

Related to Outage of both 400/132 kV, 2x125 MVA ICTs at Palatana Entire load disconnection of South Comilla by way of tripping of 132kV SM Nagar-South Comilla D/C Done		Willtutes 75 to CCW 20 to No	veniber 2024 Stimong	
Related to Outage of both 400/132 kV, 2x125 MVA ICTs at Palatana - Entire load disconnection of South Comilla by way of tripping of 132kV SM Nagar- South Comilla D/C Related to the outage of any one circuit of the 132 KV Khliehriat (PG)- Khliehriat D/C line Related to outage of any one circuit of 132 kV Leshka - Khliehriat D/C SPS related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia- Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(ISECL) line to		Nagar(TSECL) line (charged at 132		
400/132 kV, 2x125 MVA ICTs at Palatana - Entire load disconnection of South Comilla by way of tripping of 132kV SM Nagar- South Comilla D/C Related to the outage of any one circuit of the 132 KV Khliehriat (PG)- Khliehriat D/C line Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C line SPS related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia- Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps., 8-10 MW of load at 132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(TSECL) line to		kV)		
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Palatana - Entire load disconnection of South Comilla by way of tripping of 132kV SM Nagar-South Comilla D/C Related to the outage of any one circuit (PG)- Khliehriat D/C line D/C line Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C SPS related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Tripping of either 132KV Tinsukia-Ledo or 132KV Tinsukia - Ledo or 132kV Tinsukia - Ledo or 132kV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia-Rupai line wind current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(ISECL) line to		Related to Outage of both		
disconnection of South Comilla by way of tripping of 132kV SM Nagar-South Comilla D/C Related to the outage of any one circuit of the 132 KV Khliehriat (PG)-Khliehriat D/C line Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C line Related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia-Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line with current in the line crosses 300Amps., 8-10 MW of load at 132kV Rupai GSS will be shed. Pone Surajmaninagar(TSECL) to 400 kV Surajmaninagar(TSECL) line to Surajmaninagar(TSECL) to 400 kV Surajmaninagar(TSECL) line to		400/132 kV, 2x125 MVA ICTs at		
disconnection of South Comilla by way of tripping of 132kV SM Nagar-South Comilla D/C Related to the outage of any one circuit of the 132 KV Khliehriat (PG)-Khliehriat D/C line Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C line Reconductoring of 132 kV Khliehriat D/C line Reconductoring of 132 kV Khliehriat D/C line Reconductoring of 132 kV Khliehriat D/C line SPS related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia-Ledo or 132KV Tinsukia-Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(ISECL) line to	1.77	<u>Palatana</u> - Entire load		
way of tripping of 132kV SM Nagar- South Comilla D/C Related to the outage of any one circuit of the 132 KV Khliehriat (PG)- Khliehriat D/C line Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C SPS related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Tripping of either 132KV Tinsukia-Ledo or 132KV Tinsukia-Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(ISTS)-Surajmaninagar(TSECL) line to	17	disconnection of South Comilla by		
Related to the outage of any one circuit of the 132 KV Khliehriat (PG)-Khliehriat D/C line D/C line month Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C Khliehriat – Leshka D/C By Dec'24 SPS related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia-Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(ISECL) line to		way of tripping of 132kV SM Nagar-	400 KV	
circuit of the 132 KV Khliehriat (PG)-Khliehriat (PG)-Khliehriat D/C line Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C Khliehriat – Leshka D/C By Dec'24 SPS related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia-Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(ISECL) line to		South Comilla D/C		Done
Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C Khliehriat – Leshka D/C By Dec'24 SPS related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia-Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(ISTS)-Surajmaninagar(TSECL) line to		Related to the outage of any one	Reconductoring of 132 KV	
Related to outage of any one circuit of 132 kV Leshka – Khliehriat D/C Khliehriat – Leshka D/C By Dec'24 SPS related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia-Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(ISTS)-Surajmaninagar(TSECL) line to	18	circuit of the 132 KV Khliehriat	Khliehriat (PG)-Khliehriat	This
of 132 kV Leshka – Khliehriat D/C SPS related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia- Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		(PG)- Khliehriat D/C line	D/C line	month
of 132 kV Leshka – Khliehriat D/C SPS related to reliable power supply to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia- Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to	10	Related to outage of any one circuit	Reconductoring of 132 kV	
to Arunachal Pradesh from Assam through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia- Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. Done SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to	19	of 132 kV Leshka – Khliehriat D/C	Khliehriat – Leshka D/C	By Dec'24
through the Roing-Chapakhowa DC line: Triggering criteria-1: Tripping of either 132KV Tinsukia- Ledo or 132KV Tinsukia-Rupai line 20 with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		SPS related to reliable power supply		
line: Triggering criteria-1: Tripping of either 132KV Tinsukia- Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps., 8-10 MW of load at 132kV Rupai GSS will be shed. Done SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		to Arunachal Pradesh from Assam		
Triggering criteria-1: Tripping of either 132KV Tinsukia- Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. Done SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		through the Roing-Chapakhowa DC		
Tripping of either 132KV Tinsukia- Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. Done SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		line:		
Ledo or 132KV Tinsukia-Rupai line with current exceeding 300A in 132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps., 8-10 MW of load at 132kV Rupai GSS will be shed. Done SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		Triggering criteria-1:		
with current exceeding 300A in 132kV Tinsukia - Ledo or 132kV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. Done SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		Tripping of either 132KV Tinsukia-		
132kV Tinsukia - Ledo or 132KV Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps. , 8-10 MW of load at 132kV Rupai GSS will be shed. Done SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		Ledo or 132KV Tinsukia-Rupai line		
Tinsukia - Rupai line, Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps., 8-10 MW of load at 132kV Rupai GSS will be shed. Done SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to	20	with current exceeding 300A in		
Triggering criteria-2: Overloading of 132 kV Tinsukia-Rupai line when current in the line crosses 300Amps., 8-10 MW of load at 132kV Rupai GSS will be shed. Done SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		132kV Tinsukia - Ledo or 132KV		
132 kV Tinsukia-Rupai line when current in the line crosses 300Amps., 8-10 MW of load at 132kV Rupai GSS will be shed. Done SPS related to 132 kV Surajmaninagar(ISTS)-Surajmaninagar(TSECL) line to		Tinsukia - Rupai line,		
current in the line crosses 300Amps., 8-10 MW of load at 132kV Rupai GSS will be shed. Done SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		Triggering criteria-2: Overloading of		
300Amps., 8-10 MW of load at 132kV Rupai GSS will be shed. Done SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		132 kV Tinsukia-Rupai line when		
132kV Rupai GSS will be shed. SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		current in the line crosses		
SPS related to 132 kV Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		300Amps., 8-10 MW of load at		
Surajmaninagar(ISTS)- Surajmaninagar(TSECL) line to		132kV Rupai GSS will be shed.		Done
Surajmaninagar(TSECL) line to		SPS related to 132 kV		
Surajmaninagar(TSECL) line to	21	Surajmaninagar(ISTS)-		
prevent overloading By Jan'25	2,1	Surajmaninagar(TSECL) line to		
		prevent overloading		By Jan'25

S1.	SPS under implementation	Long term measures	
No.	of 5 under implementation	bong term measures	
	Related to Outage of one circuit of		
1	400 kV Surajmani Nagar (TSECL)-	Upgradation of Comilla SS to 400 kV	
1	South Comilla line (Charged at 132	level	
	kV)		

Utilities may further update

D. ITEMS FOR STATUS UPDATE

D.1. Status of auto-reclosure on z-1 operation for important lines:

In the discussions of the Sub-group on 12-04-2021 the following points were noted:

- **a.** Auto-Reclosure is very much required for maintaining system stability, reliability and uninterrupted power supply.
- **b.** Presently it will take some time for the state utilities to implement the PLCC and establish carrier communication between stations.
- **c.** The operation of Auto-Reclosure on Z-I operation at the local end independent of carrier healthiness is required.

In the 57th and 56th PCC meeting the forum approved the implementation of Auto-Reclosure on Z-1 without carrier check for all lines except the lines with generating stations at both the ends and requested the utilities to implement the AR scheme at the earliest.

Status as updated in 73rd PCCM

S1	State	Important	Status (72 nd /71 st	Status as per 73 rd
no		Transmission	PCCM)	PCCM
		lines where AR		
		has to be enabled		
		at the earliest		
1.	Arunachal	132kV Balipara-	PLCC implementation	3 Ph AR has been
	Pradesh	Tenga, 132kV	under PSDF	enabled on the
		Ziro-Daporijo-	underway.	lines. PLCC
		Along-Pashighat	3-Ph AR has been	implementation
		link	enabled on the lines	underway.
			(without carrier)	
2.	Assam	All 220kV and	Process underway.	220kV -all done
		132kV lines	220kV – Completed	except for Amguri-
			except for Kathalguri-	NTPS and Tinsukia-
			tinsukia line which	Kathalguri lines

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			will be done within 2	
			months. Delay is due	132kV –
			to the shutdown issue	Completed except
			with Discoms.	for 2 lines. The
			132kV – completed	same will be
			except for Dhemaji	completed shortly
			and Majuli	
			Substations, to be	
			done by Oct'24.	
3.	Manipur	132kV Imphal-	1. In 71st PCCM	
		Ningthounkong	Manipur	
			updated that	
			132kV Imphal-	
			Ningthounkong	
			line work has	
			been completed	
			& 4 additional	
			line have been	
			considered for	
			AR	
			implementation	
			which work will	
			be completed	
			by end of	
			Sept'24.	
			DPR for PLCC under	
			preparation. To be	
			completed shortly.	
4.	Meghalaya	Annexure (D.1)	Matter was	AR on Lumshnong -
			thoroughly discussed	Panchgram line will
			in State protection	be enabled after
			committee.	FTC is completed

			Report of the meeting	
			has been submitted	
			to NERPC.	
			It was further	
			updated that AR on	
			132kV Lumshnong-	
			khliehriat line and	
			Lumshnong-	
			Panchgram lines will	
			be enabled by next	
			week.	
5.	Tripura	132kV Agartala-S	Relay testing kit has	Relay testing kit
		M Nagar (TSECL),	been repaired but not	received. AR to be
		132kV Agartal-	received yet.	enabled by Dec'24.
		Rokhia DC,	Target-Sept.'24	
		132kV, 132kV		
		Agartala-		
		Budhjungnagar		

Sub-committee noted as above

D.2. <u>Installation of line differential protection for short lines:</u>

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 73rd PCCM -

Name of utility	Last updated status (72 nd /71 st	Status as per 73 rd PCCM
	PCCM)	

AEGCL	AEGCL updated that PSDF monitoring group has suspended funding for LDP for 1 year. AEGCL requested MS, NERPC to take up with NPC, CEA to provide funding for the same considering the special case of NER. MS, NERPC stated that funding	Pending with PSDF
	for the LDP considering the special case of NER has been taken up as resolution by RPC forum	
MSPCL	DPR under preparation, to be submitted within one month.	DPR has been approved & NIT to be floated
MePTCL	LDP operation for 9 feeders. For Neighrims-NEHU line, waiting for dark fiber. For other lines, OPGW not available commissioned after OPGW link is established. (Annexure D.2) 7 Feeder operational for rest OPGW work is pending OPGW to be installed on 16 lines. LDP will be enabled after that.	Regarding OPGW installation, MePTCL updated that DPR has been prepared and it would be submitted to PSDF committee for funding by next month for inclusion in reliable communication scheme. For NEHU-NEighrims line, NERPSIP informed the forum that fiber for this line is not under the scope of NERPSIP. Therefore, forum suggested MePTCL to cover this in any other scheme.
P&ED Mizoram	Lines identified 132kV Khamzawl - Khawiva.	DPR prepared and will be sent to PSDF shortly.

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	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.	
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.	 NEEPCO updated that GE engineers had visited the site and work had been completed. Report has been submitted to NERPC. Agenda may be dropped
TSECL		DPR has been sent to PSDF committee for funding.

Sub-committee noted as above

D.3. Status against remedial actions for important grid events:

Status as updated in the 73rd PCCM:

& us update Arunachal n. panels l.	DoP updated that PSDF funding will be short closed due to long pending payment issues
Arunachal n. panels	that PSDF funding will be short closed due to long pending
n. panels	that PSDF funding will be short closed due to long pending
panels	funding will be short closed due to long pending
-	short closed due to long pending
1.	due to long pending
	pending
	payment issues
	and delays. He
	further stated
	that State is
	considering
	funding of the
	project through
	its own
	funding. PLCC
	work to be
	tentatively
	completed by
	end of this
	year.
galand	Offer from
is under	Hitachi is still
tion for	awaited.
y July'24	
	is under tion for

3.	Leshka-Khleihriat DC multiple tripping in April	TLSA installation along the line to be	MePTCL	DPR returned by PSDF.
	to September	done by MePTCL	(DPR submitted,	
			Approval pending.)	
4.	132 kV Loktak-Jiribam	> 5MVA TRAFO (Aux.	NHPC	Not received yet
	line, 132 kV Loktak-	Transformer) to be		due to
	Imphalline,132 kV	repaired	TX manufacturing	landslide issue.
	Loktak-Ningthoukhong	->5MVA Auxiliary	underway. To be	
	line, 132 kV Loktak-	TRAFO panel to be	completed by	
	Rengpang line & Loktak	repaired by NHPC	Dec'24	
	Units 1,2 and 3 on			
	3rdAug			
5.	Grid Disturbance at	NHPC-Loktak	NHPC	R & M work to
	Loktak HEP on 03rd	informed that LBB	(LBB to be	start in Nov'24
	Aug'22	has been included	commissioned	
		under R&U scheme	under R&U project)	
		and the same shall be	Renovation would	
		commissioned by	start in Nov.'24 and	
		Mar'23	to be completed by	
			Oct.'25. Forum	
			stressed to take	
			LBB on priority.	
6.	Outage of 220 KV Bus	Bus-Bar protection of	MePTCL	Card received
	Bar Protection Scheme	220kV bus at Killing	BBR defective.	but found
	at 400/220/132 KV	SS	Order placed in	defective. New
	Killing SS		Oct'23, will arrive	Card will be
			in around 7	sent by the
			months, i.e. by May	OEM shortly.
			or June'24	
7.	Non-operation of AR for	Rectification of PLCC	MePTCL	
	various lines at	issues by MePTCL		OEM visited,
	Byrnihaat end on 25th		Visit of OEM next	PLCC defective,
	and 26th June'23	Consultation with	week. To be	will procure at
		OEM underway for	completed by	earliest
		resolution	May'24	

8.	Tripping of 132kV	BB protection to be	AEGCL	New bays have
	Kahilipara- Sarusajai 1,	implemented at	DPR is under	to be integrated
	2 and 3 line, 132kV	Kahilipara with	preparation for	to ABB relay, so
	Kahilipara Main bus 1,	procurement of 5 core	PSDF.	new cards have
	132kV Kahilipara	CTs	CT under	to be procured,
	transfer Bus 1 and		procurement, to be	commissioning
	132kV Kahilipara-		completed by end	may go beyond
	Kamalpur line on		of this year	Dec'24
	2.08.2021			
9.	AR issue at Gohpur end	Panel replacement	AEGCL -	Done, Agenda
	for 132kV Nirjuli-	underway	By April'24	may be
	Gohpur line			dropped
10.	Non-operation of AR at	Pneumatic CBs to be	NEEPCO-	March'25
	Doyang HEP	replaced	August 2024	
11.	Generation evacuation	SPS to be	MePGCL to	Done, Agenda
	issue at Leshka due to	implemented	implement the SPS	may be
	tripping of any line of		by May'24	dropped
	132kV Leshka-			
	Khliehriat DC line			
12	Multiple trippings fn the	Differential protection	MePGCL	DPR has been
	lines connected to	on the link line to be	To be discussed in	prepared and
	Leshka station in	implemented.	internal OCC	submitted to
	April'24 have been	Also, AR on the link	meeting first.	higher
	observed due to delayed	line to be implemented	DPR under	authority
	clearance of faults in the		preparation, to be	
	link line (GT to		prepared within	
	Switchyard, 550 meters)		one month	
13	Multiple tripping of 132	B/U protection	MePTCL	Done, Agenda
	kV Panchgram-	settings coordination	To be done shortly	may be
	Lumshnonong line in	for the 132kV		dropped
	April'24 has been	downstream		
	observed due to delayed	industrial feeders has		
	clearance of	to be done		
	downstream fault in			
	Lumshnong			
L				

14	Issue with CB at P K	Pneumatic CB at P K	TSECL	NERPSIP
	Bari end for	Bari end to be	(Work in progress)	informed the
	Dharmangar line	replaced with spring		forum that M/s
	(agenda item C.5 of 69th	charging type CB		Siemens was
	PCCM.)			working and
	Powergrid has reduced			work would be
	timing of zone settings			completed
	at Kumaraghat end for P			within one
	K Bari line. The settings			month
	will be reverted as soon			
	as the breaker issues is			
	resolved by TSECL			
15	At 12:38 Hrs of	Pneumatic CBs at	DoP Ar. Pradesh	Covered under
	09.07.2024, 132 kV	Along end for Basar	(replacement	PSDF scheme
	Along - Pasighat Line,	line to replaced with	within 2 months)	& parallelly
	132 kV Roing-Pasighat	Spring type by Oct'24.		exploring for
	Line & 132 kV Along-	LBB relay to be		State funding
	Basar Line tripped	rectified at Along SS		also
	leading to blackout of			
	Along & Pasighat areas			
	of Arunachal Pradesh			
16.	At 14:56 Hrs of 17-07-	Neigrihms end for	MePTCL	
	2024, 132 kV NEHU-	NEHU line Relay to be		
	NEIGRIHMS line & 132	replaced shortly		
	kV Khleihriat-			
	NEIGRIHMS line tripped			
	leading to blackout of			
	NEIGRIHMS area.			

Sub-committee noted as above

Annexure-I
List of Participants in the 73rd PCC Meeting held on 26.11.2024

SN	Name & Designation	Organization	Contact No.
1	Sh. Hibu Bama, EE (E), TD No.II	Ar. Pradesh	08119858317
2	Sh. Pranab J. Baishya, AGM, APGCL	Assam	09365643696
3	Sh. Abhishek Kalita, Dy.Mgr, AEGCL	Assam	08486213068
4	Sh. Sagolsem Kripachariya Singh, DGM, MSPCL	Manipur	08413948551
5	Sh. Lalawmpuia Chawngthu, AE	Mizoram	08730843706
6	Sh. Lalsangliana, JE	Mizoram	06009605796
7	Sh. Kitbok Syrti, EE (SP), MePTCL	Meghalaya	08974595356
8	Sh. Y.Kharpuri, AEE, CSD, MePGCL	Meghalaya	09774507325
9	Sh. Kitbok Kynjing, AEE, MePTCL	Meghalaya	09485170070
11	Sh. Alex E.Ngullie, JE	Nagaland	08837080321
12	Sh. Akumtemjen Jamir, Asst.Mgr	Nagaland	07085961125
13	Sh. Abhijit Dey, Mgr, TPTL	Tripura	09862029400
14	Sh. Amaresh Mallick, ED	NERLDC	09436302720
15	Sh. Subhra Ghosh, Asst.Mgr,	NERLDC	08415857079
16	Sh. Manash Jyoti Baishya, Ch.Manager	PGCIL	09435555740
17	Sh. Manas Pratim Sharma, Sr.Mgr	NEEPCO	08729901871
18	Sh. Palto Das, Lead Operation	OTPC	09856994128
19	Sh. Samriddhi Gogoi, Associate	INDIGRID	09101330587
	-	NTPC	_
	-	NHPC	-
20	Sh. Basab Maity, Engg. (PSS)	PRDC	09732416233
21	Sh. Souvik Datta, Engineer	PRDC	09064497926
22	Sh. Alikpanth De, Dy.Director	NERPC	09681932906
23	Sh. Vikash Shankar, AD-I	NERPC	09455331756
24	Sh. Ashim Goswami, AD-II	NERPC	08638966481