

पावर सिस्टम ऑपरेशन कॉर्पोरेशन लिमिटेड  
(भारत सरकार का उद्यम)  
POWER SYSTEM OPERATION CORPORATION LIMITED  
(A Government of India Enterprise)



उत्तर पूर्वी क्षेत्रीय भार प्रेषण केंद्र : लोअर नंगरा, लापालांग, शिलांग-793006, (मेघालय)  
North Eastern Regional Load Despatch Centre: Lower Nongrah, Lapalang, Shillong - 793006, (Meghalaya)  
Ph : 0364-2537470, 2537427, Fax - 2537486 Website : www.nerlhc.org, Email - nerlhc@posoco.in, CIN : U40105DL2009GOI188682

संदर्भ: उपक्षेत्रीय एस.ओ-2/2022/12/ 2783

दिनांक/Date: 25.02.22

सेवा में/To:

- वितरण सूची के अनुसार / As per Distribution List

प्रतिलिपि/Copy to:

Member Secretary, NERPC, NERPC Complex, Dong Parmaw, Shillong – 793006

**विषय/Sub:** जनवरी '22 महीने के लिए उत्तर-पूर्वी क्षेत्रीय ग्रिड में ग्रिड व्यवधान और ग्रिड घटनाओं की रिपोर्ट, मूल कारण विश्लेषण और उपचार उपायों का सुझाव / Report on Grid Disturbances & Grid Incidents of North-Eastern Regional Grid, Root cause analysis and suggested remedial measures for **January'22**

महोदय / Sir,

उत्तर-पूर्वी क्षेत्रीय ग्रिड में ग्रिड व्यवधान और ग्रिड घटनाओं की रिपोर्ट मासिक आधार पर तैयार और अपलोड किया जा रहा है। जनवरी '22 महीने के लिए उत्तर-पूर्वी क्षेत्रीय ग्रिड में ग्रिड व्यवधान और ग्रिड घटनाओं की रिपोर्ट उ.पू.क्ष.भा.प्रे.के. के वेब साईट <https://www.nerlhc.in/grid-disturbance-report/> में उपलब्ध है।


तत्वों की ट्राइपिंग, ग्रिड व्यवधान और ग्रिड घटनाओं का मूल कारण बिजली उपयोगिताओं द्वारा प्रस्तुत आंकड़ों के आधार पर पहचाना जाता है और तदनुसार इन घटनाओं के लिए उपचारात्मक उपायों का सुझाव दिया जाता है। आपके अंत में विश्लेषण के अनुसार मूल कारणों में किसी भी अंतर के मामले में, आपको 1 सप्ताह के भीतर जरूरी औचित्य के साथ मूल कारणों को अवगत कराने का अनुरोध किया जाता है।

Report on Grid Disturbances & Grid Incidents of North-Eastern Regional Grid is being prepared and uploaded in NERLDC website on monthly basis. Report on Grid Disturbances & Grid Incidents of North-Eastern Regional Grid for the month of **January'22** is available at <https://www.nerlhc.in/grid-disturbance-report/>.

Root causes of tripping of elements, Grid Disturbances & Grid Incidents are identified based on the data submitted by Power Utilities and accordingly remedial measures are suggested for these events. In case of any difference in root cause as per analysis at your end, you are requested to intimate us the root cause with necessary justifications within 1 week.

सादर/With Regards

भवदीय /Yours faithfully



(एस सी डे / S.C. De)

वरिष्ठ महाप्रबंधक (एस.ओ)/ Sr. G.M. (SO-II)  
उपक्षेत्राधिकारी, शिलांग / NERLDC, Shillong

**वितरण सूची / Distribution List:**

1. Sr. Executive Engineer, SLDC T&D Division-2, Department of Power, Arunachal Pradesh- 791111
2. CGM, SLDC Assam, AEGCL, Near 132 kV Grid Substation, Kahilipara, Guwahati – 781019
3. GM, SLDC Manipur, MSPCL, Keishampat, Imphal West, Manipur - 795001
4. Superintending Engineer (SLDC), SLDC Meghalaya, NEHU Substation, Shillong – 793022
5. Superintending Engineer, SLDC Mizoram, Power House, Electric Veng, Aizawl, Mizoram – 796001
6. Executive Engineer (Transmission), SLDC Nagaland, DoP Nagaland, Electricity Colony, Full Nagarjan, Dimapur, Nagaland – 797112
7. DGM (System Operation), SLDC Agartala, TSECL, 79-Tilla, Tripura (West), Agartala – 799006
8. DGM(MRT), MRT Circle, AEGCL, Narengi, Guwahati
9. DGM (Substation Division No. 1), MSPCL, Keishampat, Imphal
10. Executive Engineer (System Protection), MePTCL, Umiam
11. Executive Engineer (MRT), Power & Electricity Department, Mizoram, Aizawl
12. SDO (Testing & Communication), Department of Power, Govt. of Nagaland, Kohima
13. DGM (Testing & Communication), TSECL, Agartala, Tripura
14. Executive Director, NERTS, Shillong, POWERGRID
15. Director (Project), NETC, Delhi
16. Manager (Electronics & Communication), Loktak Power House, NHPC, Manipur
17. Sr. Mgr (Electrical), OTPC, Palatana, Tripura
18. Additional General Manager (Electrical & Maintenance), BgFPP, Salakati, Kokrajhar, Assam - 783369
19. Sr. Mgr,PH & SY,(O&M) , Ranganadi, Hoz,Yayee, Arunachal Pradesh
20. Sr.Mgr (Electrical), Kopili Power House Maintenance, Umrangshu, Dimahasao, Assam
21. Sr. Mgr (Electronics & Control and Instrumentation), TGBP, Monarchak, Tripura
22. Sr. Mgr (Operations), AGTCCPP, R.C.Nagar, Tripura
23. Dy. Manager (Maintenance), Khandong, Umrangshu, Assam
24. Manager (Generation & Switchyard Division), Doyang, Wokha, Nagaland
25. Sr.Mgr (Electrical), PEM Division, AGBPP, NEEPCO, Bokuloni Chariali, Assam
26. Engineer(O&M), Sterlite Power Transmission limited, Bhopal, MP-462023
27. Vice President, AM, Sterlite Power Transmission limited, Bhopal, MP-462023
28. C.E.O. (Project's) Kohima Mariani Transmission Ltd. Guwahati, Assam

Grid Disturbances in NER Grid from 01-January-2022 to 31-January-2022														
Sl. No.	Region	Affected Areas	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards	Fault Clearing Time in msec	Violation of Regulation / Standard
1		Lumshnong area of Meghalaya Power System	MePTCL	07-01-2022 07:39:00	07-01-2022 08:08:00	00:29:00	Lumshnong area of Meghalaya Power System is connected with rest of NER grid through 132 kV Khleihriat-Lumshnong Line. 132 kV Panchgram -Lumshnong Line was under outage since 07:18 hrs on 07.01.22.  At 07:39 hrs on 07.01.22, 132 kV Khleihriat-Lumshnong Line tripped. Due to tripping of this element, Lumshnong area of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in the area.  Power supply was extended to Lumshnong area of Meghalaya Power System by charging 132 kV Khleihriat-Lumshnong Line at 08:08 hrs on 07.01.22.	0	56	0	0.0271	GD-I	160	-
2		Lumshnong area of Meghalaya Power System	MePTCL	18-01-2022 07:09	18-01-2022 07:24	00:15:00	Lumshnong area of Meghalaya Power System was connected with rest of NER grid through 132 kV Panchgram -Lumshnong Line & 132 kV Khleihriat-Lumshnong Line  At 07:09 hrs on 18.01.22, 132 kV Panchgram -Lumshnong Line and 132 kV Khleihriat-Lumshnong Line tripped. Due to tripping of these elements, Lumshnong area of Meghalaya Power System got separated from rest of NER Grid and subsequently collapsed due to no source in the area.  Power supply was extended to Lumshnong area of Meghalaya Power System by charging 132 kV Khleihriat-Lumshnong Line at 07:24 hrs. on 18.01.22.	0	41	0	0.0103	GD-I	240	3 (e) of CEA Grid Standard Regulations
3		Lumshnong area of Meghalaya Power System	MePTCL	20-01-2022 16:30	20-01-2022 16:38	00:08:00	Lumshnong area of Meghalaya Power System was connected with rest of NER grid through 132 kV Khleihriat-Lumshnong Line. 132 kV Panchgram -Lumshnong Line was under outage since 16:07 hrs on 20.01.2022  At 16:30 hrs on 20.01.22, 132 kV Khleihriat-Lumshnong Line tripped. Due to tripping of this element, Lumshnong area of Meghalaya Power System got separated from rest of NER Grid and subsequently collapsed due to no source in the area.  Power was extended to Lumshnong area of Meghalaya Power System by charging 132 kV Khleihriat-Lumshnong Line at 16:38 hrs on 20.01.2022	0	35	0	0.0047	GD-I	320	3 (e) of CEA Grid Standard Regulations
4		Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System	DoP, Arunachal Pradesh	25-01-2022 18:20	25-01-2022 19:48	01:28:00	Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Along - Pasighat Line.  At 18:20 hrs on 25.01.2022, 132 kV Along - Pasighat Line tripped. Due to tripping of this element, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.  Power was extended to Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System by charging 132 kV Along - Pasighat Line at 19:48 hrs on 25.01.2022.	0	15	0	0.0220	GD-I	120	5.2(R) and 5.9.6 (a) of IEGC
5		Zuangtui, Serchhip and Saitual areas of Mizoram Power System	P&ED, Mizoram	31-01-2022 07:32:00	31-01-2022 13:47:00	06:15:00	Zuangtui, Serchhip and Saitual areas of Mizoram Power System were connected with the rest of NER Grid through 132 kV Melriat(PG) - Zuangtui Line. 132 kV Serchip - Lunglei (Khawiva) Line was in opened condition since 15:30 hrs on 29.09.2021 to avoid overloading of 132 kV Aizawl - Luangmual Line and 132kV Melriat(PG) -Zuangtui Line  At 07:32 hrs on 31.01.2022, 132 kV Melriat - Zuangtui Line tripped. Due to tripping of this element, Zuangtui, Serchhip and Saitual areas of Mizoram Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.  Power was extended to Zuangtui, Serchhip and Saitual areas of Mizoram Power System by charging 132 kV Melriat(PG) - Zuangtui Line at 13:47 hrs on 31.01.2022	0	52	0	0.3250	GD-I	120	5.2(R) and 5.9.6 (a) of IEGC

Note: Root Cause and Remedial Measures for these events is available in the following link: <https://www.nerdc.in/root-cause-remedial-measures-of-grid-events/>

**Grid Incidents in NER Grid from 01-January-2022 to 31-January-2022**

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
1	NER	AGTCCPP Unit-3	NEEPCO	03-01-2022 06:17	03-01-2022 08:00	01:43	AGTCCPP Unit-3 tripped at 06:17 hours on 03-01-22 due to inlet air differential pressure high . Revision done from Block No. 33 on 03-01-22.	30	0	0.0515	0	GI-I
2	NER	AGTCCPP Unit 1, 2, 3, 4, 5 & 6	NEEPCO	10-01-2022 05:15	10-01-2022 07:00	01:45	AGTCCPP Unit 1, 2, 3, 4, 5 & 6 tripped at 05:15 hours on 10-01-22 due to sudden low gas pressure alarm. Revision done from Block No. 29 on 10-01-22.	130	0	0.2275	0	GI-I
3	NER	AGBPP Unit 2	NEEPCO	26-01-2022 14:49	26-01-2022 16:30	01:41	AGBPP Unit 2 tripped at 14:49 hours on 26-01-22 due to tripping of Gas Compressor 1. Revision done from Block No. 67 on 26-01-22.	60	0	0.101	0	GI-II

Note: Root Cause and Remedial Measures for these events is available in the following link: <https://www.nerldc.in/root-cause-remedial-measures-of-grid-events/>

**The following numbers of Grid Disturbances(GD) & Grid Incidents (GI) occurred in NER during the period w.e.f 01-January-2022 to 31-January-2022 as per CEA Grid Standards**

<b>Sl. No.</b>	<b>Category of GD</b>	<b>Total Counts</b>
1	GI 1	2
2	GI 2	1
3	GD 1	5
4	GD 2	0
5	GD 3	0
6	GD 4	0
7	GD 5	0

Note: Root Cause and Remedial Measures for these events is available in the following link:  
<https://www.nerldc.in/root-cause-remedial-measures-of-grid-events/>