

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)
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संदर्भ: उपक्षेत्राधिकारी एस.ओ-2/2022/12/2928

दिनांक/Date: 29.03.22

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: फ़रवरी '21 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 February'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। फ़रवरी '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.nerldc.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 February'22 is available at <https://www.nerldc.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. (S.O)
उपक्षेत्रभाप्रेके, शिलांग / NERLDC, Shillong

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Grid Disturbances in NER Grid from 01-February-2022 to 28-February-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	NER	Surajmaninagar(TSECL) area of Tripura Power System	TSECL	13-02-2022 05:57:00	13-02-2022 08:55:00	02:58:00	<p>Surajmaninagar(TSECL) Area of Tripura Power System including South Comilla (Bangladesh) load was connected with the rest of NER Grid through 132 kV Palatana - Surajmaninagar line, 132 kV Agartala - Surajmaninagar D/C lines, 132 kV Budhjungnagar - Surajmaninagar line and 132 kV Surajmaninagar(ST)- Surajmaninagar Line.</p> <p>At 05:57 Hrs dtd 13.02.2022, 132 kV Bus of Surajmaninagar S/S of Tripura became dead due to tripping of all the connected lines on LBB protection at Surajmaninagar end. Due to tripping of these elements, Surajmaninagar(TSECL) Area of Tripura Power System including South Comilla (Bangladesh) load was separated from rest of NER Grid and subsequently collapsed due to no source in this area.</p> <p>Power Supply to Surajmaninagar(TSECL) Area of Tripura Power System was restored by charging 132 kV Agartala-Surajmaninagar(TSECL) D/C at 08:55 hrs on 13.02.2022. Further power was extended to Bangladesh at 12:28 hrs on 13.02.2022..</p>	0	81	0	0.2403	GD-I	240	5.2(R) and 5.9.6 (a) of IEGC & 3 (e) of CEA Grid Standard Regulations
2	NER	Luangmual, Melriat & Lunglei areas of Mizoram Power System	P&ED, Mizoram	17-02-2022 01:16	17-02-2022 03:51	02:35:00	<p>Luangmual, Melriat & Lunglei areas of Mizoram Power System were connected with the rest of NER Grid through 132 kV Aizawl(PG)- Luangmual Line. 132 kV Serchip-Lunglei was under out of service to avoid overloading of 132 kV Aizawl-Luangmual line.</p> <p>At 01:16 hrs on 17.02.2022, 132 kV Aizawl(PG) -Luangmual line tripped . Due to tripping of this element, Luangmual, Melriat & Lunglei areas of Mizoram Power System were separated from rest of NER Grid and subsequently collapsed due to no source available in these areas.</p> <p>Power supply was extended to Luangmual, Melriat & Lunglei areas of Mizoram Power System by charging 132 kV Aizawl(PG) -Luangmual line at 03:51 hrs on 17.02.2022.</p>	0	26	0	0.0672	GD-I	305	5.2(R) and 5.9.6 (a) of IEGC & 3 (e) of CEA Grid Standard Regulations
3	NER	Bornagar area of Assam Power System	AEGCL	24-02-2022 12:52	24-02-2022 13:05	00:13:00	<p>Bornagar area of Assam Power System was connected with the rest of NER Grid through 132 kV Dhaligaon-Bornagar Line. 132 kV Bornagar-Rangia line was under shutdown due to Corridor clearance.</p> <p>At 12:52 hrs on 24.02.2022, 132 kV Dhaligaon-Bornagar line tripped . Due to tripping of this element, Bornagar area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this area.</p> <p>Power was extended to Bornagar area of Assam Power System by charging 132 kV Dhaligaon-Bornagar Line at 13:05 Hrs on 24.02.2022.</p>	0	41	0	0.0089	GD-I	440	3 (e) of CEA Grid Standard Regulations
4	NER	Nongstoin and Mawngap areas of Meghalaya Power System	MePTCL	24-02-2022 22:22	24-02-2022 22:31	00:09:00	<p>Nongstoin and Mawngap areas of Meghalaya Power System was connected with the rest of NER Grid through 132kV Nangalbibra - Nongstoin line, 132kV Umiam I - Mawngap D/C lines. 132kV Mawlai - Mawngap line were under outage to control the overloading of 132kV Umiam III - Umiam I D/C lines.</p> <p>At 22:22 hrs on 24.02.2022, 132kV Nangalbibra - Nongstoin line, 132kV Umiam I - Mawngap D/C lines tripped. Due to tripping of these elements, Nongstoin and Mawngap areas of Meghalaya Power System were separated from rest of NER Grid and subsequently collapsed due to no source available in these areas.</p> <p>Power was extended to Nongstoin and Mawngap areas of Meghalaya Power System by charging 132 kV Nangalbibra - Nongstoin line at 23:31 Hrs on 24.02.2022.</p>	0	24	0	0.0036	GD-I	80	5.2(R) of IEGC

Grid Disturbances in NER Grid from 01-February-2022 to 28-February-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
5	NER	Kohima area of Nagaland Power System	DoP, Nagaland	25-02-2022 17:12	25-02-2022 17:44	00:32:00	<p>Kohima area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Kohima - Wokha line and 132 kV Karong - Kohima line. 132 kV Dimapur-Kohima line was under emergency shutdown for rectification of CB of 132 kV Dimapur - Kohima line at Kohima due to malfunctioning of mechanical gears.</p> <p>At 17:12 Hrs on 25.02.2022, 132 kV Kohima - Meluri line, 132 kV Kohima - Wokha line and 132 kV Karong - Kohima line tripped . Due to tripping of these elements, Kohima area of Nagaland Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this area.</p> <p>Power was extended to Kohima area by charging 132 kV KarongKohima line at 17:44 Hrs on 25.02.2022.</p>	0	28	0	0.0149	GD-I	80	NIL
6	NER	Capital load (Shillong) along with Nehu, Mawlai, NEIGHRIHMS, Umiam and Cherrapunji areas of Meghalaya Power System	MePTCL	25-02-2022 19:11	25-02-2022 19:21	00:10:00	<p>Capital load (Shillong) along with Nehu, Mawlai, Neighrihms, Umiam, Cherrapunji areas of Meghalaya Power System were connected with the rest of NER Grid through 132 kV Umiam III- Umiam I D/C lines, 132 kV Neighrihms-Khleihriat line and 132 kV Umiam I-Mawngap D/C lines. 132 kV Mawngap- Mawlai line were opened to reduce overloading of 132 kV Umiam III - Umiam I D/C lines. 132 kV Nehu-Mawlyndep line was opened to reduce overloading of 132 kV Khleiriat-Mustem line.</p> <p>At 19:11 hrs on 25.02.2022, 132 kV Umiam III-Umiam I D/C lines, 132 kV Neighrihms-Khleihriat line and 132 kV Umiam I-Mawngap D/C lines tripped . Due to tripping of these elements, Capital load (Shillong) along with Nehu, Mawlai, Neighrihms, Umiam, Cherrapunji areas of Meghalaya Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas.</p> <p>Power was extended to Nehu by charging 132kV Umiam III - Umiam I 1 line at 19:21 Hrs, 132 kV Umiam I - Umiam line at 19:23 hrs and 132kV Umiam - Nehu line at 19:24 Hrs on 25.02.2022.</p>	13	91	0.0022	0.0152	GD-I	80	5.9.6 (a) of IEGC
7	NER	Kohima area of Nagaland Power System	DoP, Nagaland	25-02-2022 22:05	25-02-2022 22:52	00:47:00	<p>Kohima area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Kohima - Wokha line and 132 kV Karong - Kohima line. 132 kV Dimapur-Kohima line was under emergency shutdown for rectification of CB at Kohima end due to malfunctioning of mechanical gears.</p> <p>At 22:05 Hrs on 25.02.2022, 132 kV Kohima - Meluri line, 132 kV Kohima - Wokha line and 132 kV Karong - Kohima line tripped . Due to tripping of these elements, Kohima area of Nagaland Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in this area.</p> <p>Power was extended to Kohima area of Nagaland Power System by charging 132 kV Karong-Kohima line at 22:52 Hrs on 25.02.2022.</p>	0	15	0	0.0118	GD-I	120	NIL

Grid Disturbances in NER Grid from 01-February-2022 to 28-February-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
NIL												

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-February-2022 to 28-February-2022 as per CEA Grid Standards

Sl. No.	Category of GD	Total Counts
1	GI 1	0
2	GI 2	0
3	GD 1	7
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/>