



उपूक्षे का तिमाही सिस्टम स्टेटस रिपोर्ट
अक्टूबर'20 -दिसंबर'20

**Quarterly System Operation Report of North
Eastern Region October'20 - December'20**

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

Power System Operation Corporation Limited

(A Government of India Enterprise)

उत्तर पूर्वी क्षेत्रीय भार प्रेषण केन्द्र

North Eastern Regional Load Despatch Centre

उत्प्रेक्षे का तिमाही सिस्टम स्टेटस रिपोर्ट / Quarterly Report of North Eastern Region
अवधि के लिए / for the period w.e.f 01-Oct-20 to 31-Dec-20

"पर जारी / Issued on : 20 Jan 2021

1. पावर अंश की गुणवत्ता (वोल्टेज और आवृत्ति प्रोफाइल) / Quality of Power (Voltage and Frequency Profile) excerpt

1.1 वोल्टेज प्रोफाइल पीयू में / Voltage Profile in pu

माह / 'Month	मीसा 400 केवी / Misa 400 kV			बलीपारा 400 केवी / Balipara 400 kV			बोन्गैगांव 400 केवी Bongaigaon 400 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
October'2	1.030	0.993	0.00%	1.045	0.985	0.00%	1.050	0.980	0.00%
November'	1.030	0.990	0.00%	1.040	0.980	0.00%	1.055	1.005	0.00%
December'	1.045	0.988	0.00%	1.043	0.968	0.00%	1.048	0.968	0.00%

माह / 'Month	रंगानदी 400 केवी Ranganadi 400 kV			पालताना 400 केवी Palatana 400 kV			सिलचर 400 केवी' Silchar 400 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
October'2	1.050	0.983	2.21%	1.043	0.983	0.00%	1.050	0.995	0.00%
November'	1.043	0.983	0.00%	1.048	0.998	0.00%	1.053	1.000	0.00%
December'	1.048	0.963	0.02%	1.045	0.995	0.00%	1.050	0.968	0.01%

माह / 'Month	विश्वनाथ चाराली 400 केवी Biswanath Charali 400 kV			अजरा' 400 केवी /Azara 400 kV			बीजीटीपीपी 400 केवी / BgTPP 400 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
October'2	1.050	0.980	0.00%	1.048	0.963	0.00%	1.073	0.978	0.00%
November'	1.045	0.980	0.00%	1.045	1.008	0.00%	1.040	0.970	1.52%
December'	1.040	0.960	0.00%	1.045	1.015	0.00%	1.063	0.963	0.00%

माह / 'Month	बारनीहाट 400 केवी / Byrnihat 400 kV			मीसा 220 केवी / Misa 220 kV			एजिबिपिपि' 220 केवी AGBPP 220 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
October'2	1.043	0.978	0.000	1.045	0.968	0.00%	1.091	1.000	0.00%
November'	1.043	0.980	0.036	1.045	0.973	0.00%	1.086	0.964	0.00%
December'	1.055	0.988	0.000	1.055	0.909	0.00%	1.077	0.964	0.00%

माह / 'Month	मोकोक्चुंग 220 केवी Mokokchung 220 kV			आइजोल 132 केवी / Aizawl 132 kV			इम्फल 400 केवी/ Imphal 400 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
October'2	1.077	0.973	0.00%	1.038	0.939	0.00%	1.053	0.978	0.53%
November'	1.077	0.977	0.00%	1.045	0.932	0.00%	1.053	0.980	0.09%
December'	1.055	0.959	0.00%	1.068	0.924	0.00%	1.073	0.968	0.73%

1.2 आवृत्ति प्रोफाइल % में (विभिन्न सीमाओं में अवधि) / Frequency Profile (in %) (Duration in different ranges)

माह / 'Month	f < 49.9 Hz	49.9 Hz < f < 50.05 Hz	50.05 Hz < f	FDI (% of Time)
October'2020	3.907	81.888	14.204	18.111
November'2020	4.380	79.855	15.764	20.144
December'2020	4.790	75.750	19.455	24.245

2. बिजली आपूर्ति की स्थिति / Power Supply Position

a) Peak Demand Met and Unrestricted Demand (MW)

MONTH	STATE	PK REQ	PK DMD MET	SHORTAGE %
October'2020	अरुणाचल प्रदेश / Arunachal Pradesh	130	125	3.7
	असम / Assam	1987	1987	0.0
	मणिपुर / Manipur	219	214	2.3
	मेघालय / Meghalaya	336	336	0.0
	मिजोरम / Mizoram	109	109	0.0
	नगालैंड / Nagaland	160	155	2.9
	त्रिपुरा / Tripura	314	314	0.0
	क्षेत्र / Region	3254	3240	0.4
November'2020	Pradesh	149	134	10.1
	असम / Assam	1724	1724	0.0
	मणिपुर / Manipur	232	227	2.2
	मेघालय / Meghalaya	353	353	0.0
	मिजोरम / Mizoram	121	121	0.0
	नगालैंड / Nagaland	151	143	5.3
	त्रिपुरा / Tripura	270	270	0.0
	क्षेत्र / Region	2999	2971	0.9
December'2020	Pradesh	81	81	0.0
	असम / Assam	1437	1437	0.0
	मणिपुर / Manipur	252	249	1.2
	मेघालय / Meghalaya	384	384	0.0
	मिजोरम / Mizoram	127	127	0.0
	नगालैंड / Nagaland	155	150	3.2
	त्रिपुरा / Tripura	239	239	0.0
	क्षेत्र / Region	2676	2668	4

b) Energy Met and Requirement (MU)

MONTH	STATE	Energy REQ	Energy MET	SHORTAGE %
October'2020	अरुणाचल प्रदेश / Arunachal Pradesh	60.59	60.27	0.53
	असम / Assam	1075.89	1051.79	2.24
	मणिपुर / Manipur	77.76	77.41	0.45
	मेघालय / Meghalaya	149.09	149.09	0.00
	मिजोरम / Mizoram	61.68	61.36	0.52
	नगालैंड / Nagaland	80.29	79.93	0.45
	त्रिपुरा / Tripura	243.38	243.20	0.07
	क्षेत्र / Region	1748.68	1723.05	1.47
November'2020	अरुणाचल प्रदेश / Arunachal Pradesh	64.66	64.39	0.42
	असम / Assam	754.73	737.29	2.31
	मणिपुर / Manipur	84.14	83.75	0.46
	मेघालय / Meghalaya	174.71	174.71	0.00
	मिजोरम / Mizoram	53.05	52.76	0.55
	नगालैंड / Nagaland	64.41	64.06	0.54
	त्रिपुरा / Tripura	179.95	179.92	0.02
	क्षेत्र / Region	1375.65	1356.88	1.36
December'2020	अरुणाचल प्रदेश / Arunachal Pradesh	69.96	69.31	0.93
	असम / Assam	744.02	725.92	2.43
	मणिपुर / Manipur	105.01	104.48	0.50
	मेघालय / Meghalaya	201.68	201.18	0.25
	मिजोरम / Mizoram	61.91	61.59	0.52
	नगालैंड / Nagaland	69.16	68.78	0.55
	त्रिपुरा / Tripura	165.35	165.33	0.01
	क्षेत्र / Region	1417.10	1396.60	1.45

3. जलाशय स्तर व ऊर्जा सामग्री विवरण / Water Level & Energy Content details

जलाशय / Reservoir	As on 31-Dec-19		As on 31-Dec-20	
	जलाशय स्तर / Water Level	एमयू सामग्री / MU Content	जलाशय स्तर / Water Level	एमयू सामग्री / MU Content
खंडोंग / Khandong	721.8	30.5	715.8	17.0
कोपिली / Kopili	0.0	-	0.0	-
लोकतक / Loktak	767.7	75.5	769.2	-
बारापानी / Barapani	974.6	27.8	977.6	36.0
गुमती / Gumti	91.0	19.4	0.0	-
डोयांग / Doyang	317.5	17.0	323.3	34.0

4. राज्यों द्वारा अनुसूची बनाम वास्तविक ड्रॉ / Schedule vs Actual Drawl by States

Month	State	Schedule Drawl (MU)	Actual Drawl (MU)	Deviation (MU)
October'2020	अरुणाचल प्रदेश / Arunachal Pradesh	55.999	60.265	4.266
	असम / Assam	939.567	954.645	15.078
	मणिपुर / Manipur	76.834	77.413	0.579
	मेघालय / Meghalaya	4.248	-6.018	-10.266
	मिजोरम / Mizoram	36.621	35.218	-1.403
	नगालैंड / Nagaland	74.109	72.731	-1.377
	त्रिपुरा / Tripura	179.702	176.845	-2.857
November'2020	अरुणाचल प्रदेश / Arunachal Pradesh	62.383	64.391	2.008
	असम / Assam	638.508	646.854	8.346
	मणिपुर / Manipur	82.207	83.750	1.544
	मेघालय / Meghalaya	85.246	83.576	-1.669
	मिजोरम / Mizoram	27.911	27.482	-0.429
	नगालैंड / Nagaland	57.521	57.422	-0.100
	त्रिपुरा / Tripura	97.527	84.088	-13.439
December'2020	अरुणाचल प्रदेश / Arunachal Pradesh	68.890	69.314	0.424
	असम / Assam	596.032	608.745	12.712
	मणिपुर / Manipur	104.339	104.482	0.143
	मेघालय / Meghalaya	127.963	128.134	0.171
	मिजोरम / Mizoram	44.724	46.640	1.916
	नगालैंड / Nagaland	62.291	62.706	0.415
	त्रिपुरा / Tripura	84.005	74.911	-9.094

5.A तिमाही के दौरान अंतर-क्षेत्रीय एक्सचेंज /Inter-Regional Exchanges during the quarter

Figures in MU

MONTH	220 KV		400 KV		400 KV	
	Birpara-Salakati D/C		Binaguri-B'gaon D/C		Alipurduar-B'gaon D/C	
	Exp	Imp	Exp	Imp	Exp	Imp
October'2020	0.142	55.677	-174.928	175.491	-157.671	162.813
November'2020	2.142	32.095	-109.511	119.732	-117.747	133.000
December'2020	20.448	1.793	93.199	4.946	140.039	7.783

5.B. तिमाही के दौरान अंतर-देश एक्सचेंज /Inter-Country Exchanges during the quarter

Figures in MU

MONTH	Bangladesh (in MU)		Bhutan (in MU)		Myanmar (in MU)	
	Exp	Imp	Exp	Imp	Exp	Imp
October'2020	96.750	0	0.000	64.690	0.778	0
November'2020	68.860	0	0.410	19.440	0.719	0
December'2020	60.000	0	7.290	2.610	0.741	0

6. एनईआर प्रणाली में ग्रीड घटनाएं Grid Incidents in NER system

The section may detail near miss situations, incidents of multiple elements outage, natural calamities affecting the power system, oscillations observed in the system etc.

A. Grid Disturbance

Sl No	Region	Outage		Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards
		Date	Time				
1	NER	04-10-2020	17:15	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 17:15 Hrs on 04.10.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	21	GD 1
2	NER	05-10-2020	03:56	Capital area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Lekhi - Pare Line. (132 kV Pare - Itanagar line & 132 kV Ranganadi - Itanagar line were under outage due to tower collapse since 12.07.20 & 132 kV Nirjuli - Gohpur line was kept open to control loading of 132 kV Lekhi - Pare Line). At 03:56 Hrs on 05.10.20, 132 kV Lekhi - Pare Line tripped. Due to tripping of this element, Capital area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	GD 1
3	NER	05-10-2020	05:50	Rangia area of Assam Power System was connected with the rest of NER Grid through 220 kV BTPS - Rangia 1&2 lines, 132 kV Rangia - Motonga line and 132 kV Dhaligaon- Bornagar line. 132 kV Kamalpur -Rangia D/C, 132 kV Rangia- Rowta line, 132 kV Rowta - Sipahar line and 132kV Nalbari-Dhaligaon line were kept open due to system requirement. At 05:50 Hrs on 05.10.2020, 220 kV BTPS - Rangia 1&2 lines, 132 kV Rangia - Motonga line and 132 kV Dhaligaon- Bornagar line tripped. Due to tripping of these elements, Rangia area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area."	0	80	GD 1
4	NER	09-10-2020	14:20	Hailakandi area of Assam Power System was connected with the rest of NER Grid through 132 kV Hailakandi-Panchgram line, 132 kV Dullavchera-Hailakandi line &132 kV Hailakandi-Silchar D/C lines. At 14:20 Hrs on 09.10.2020, 132 kV Hailakandi-Panchgram line, 132 kV Dullavchera-Hailakandi line &132 kV Hailakandi-Silchar D/C Lines tripped. Due to tripping of these elements, Hailakandi area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	24	GD 1
5	NER	10-10-2020	08:04	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 08:04 Hrs on 10.10.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	18	GD 1
6	NER	10-10-2020	12:23	Capital area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Lekhi - Pare Line. (132 kV Pare - Itanagar line & 132 kV Ranganadi - Itanagar line were under outage due to tower collapse since 12.07.20 & 132 kV Nirjuli - Gohpur line was kept open to control loading of 132 kV Lekhi - Pare Line). At 12:23 Hrs on 10.10.20, 132 kV Lekhi - Pare Line tripped. Due to tripping of this element, Capital area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	42	GD 1
7	NER	12-10-2020	14:36	Leshka Power Station of Meghalaya Power System was connected with rest of NER Grid through 132 kV Khleihriat - Leshka D/C lines . At 14:36 hrs of 12.10.2020, 132 kV Khleihriat - Leshka D/C tripped. Due to tripping of these lines, Leshka Power Station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch..	84	0	GD 1

8	NER	13-10-2020	16:42	New Umtru Power Station of Meghalaya Power System was connected with rest of NER Grid through 132kV New Umtru - Umtru line and 132kV New Umtru - EPIP II line. At 16:42 hrs of 13.10.2020, 132kV New Umtru - Umtru line and 132kV New Umtru - EPIP II lines tripped. Due to tripping of these lines, New Umtru Power Station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	40	0	GD 1
9	NER	14-10-2020	14:47	Part of Meghalaya Power System (NEHU, NEIGRIHMS, Mustem, Mawlyndep, Mawlai, Mawngap and Umiam substations) and Umiam St I, Umiam St II, Umiam St III and Umiam St IV Generating stations were connected with rest of NER Grid through 132 kV Umtru - Umiam St III- 1 & 2 lines and 132 kV Nongstoin - Mawngap 1 line. 132 kV Umtru - Umiam St IV- 1 & 2 lines were under planned shutdown since 09:00 Hrs on 14.10.2020. 132 kV Khleihriat - Mustem line and 132 kV Khleihriat - NEIGRIHMS line were under outage since 14:27 Hrs and 14:31 Hrs on 14.10.2020 respectively. At 14:47 Hrs on 14.10.20, 132 kV Umtru - Umiam St III- 1 & 2 lines and 132 kV Nongstoin - Mawphlang 1 line tripped. Due to tripping of these elements, part of Meghalaya Power System and Umiam St I, Umiam St II, Umiam St III and Umiam St IV Generating stations were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch	43	88	GD 1
10	NER	15-10-2020	09:42	"Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along - Pasighat line. At 09:42 Hrs on 15.10.2020, 132 kV Along - Pasighat line tripped. Due to tripping of this element, Pasighat area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area."	0	13	GD 1
11	NER	15-10-2020	12:56	"Capital area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Lekhi - Pare Line. (132 kV Pare - Itanagar line & 132 kV Ranganadi - Itanagar line were under outage due to tower collapse since 12.07.20 & 132 kV Nirjuli - Gohpur line was kept open to control loading of 132 kV Lekhi - Pare Line). At 12:56 Hrs on 15.10.20, 132 kV Lekhi - Pare Line tripped. Due to tripping of this element, Capital area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area."	0	30	GD 1
12	NER	16-10-2020	11:07	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 11:07 Hrs on 16.10.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	17	GD 1
13	NER	17-10-2020	12:48	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 12:48 Hrs on 17.10.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	19	GD 1
14	NER	19-10-2020	03:58	Churachandpur area of Manipur Power System was connected with the rest of NER Grid through 132 kV Ningthoukhong - Churachandpur 1 & 2 lines. 132 kV Kakching - Kongba line kept open for system requirement. At 01:54 Hrs on 19.10.2020, 132 kV Ningthoukhong - Churachandpur 1&2 lines tripped. Due to tripping of these elements, Churachandpur Area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	14	GD 1
15	NER	19-10-2020	03:58	"Golaghat & Bokajan areas of Assam Power System were connected with the rest of NER Grid through 132 KV Mariani(AS) - Golaghat line. 132 kV Bokajan -Dimapur(PG) line kept open to facilitate long shutdown of 220/132 kV, 100 MVA ICT-1 at Dimapur (PG) Substation. At 03:58 Hrs on 19.10.2020, 132 KV Mariani(AS) - Golaghat line tripped. Due to tripping of this element, Golaghat & Bokajan areas of Assam Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas."	0	25	GD 1

16	NER	19-10-2020	05:18	"Golaghat & Bokajan areas of Assam Power System were connected with the rest of NER Grid through 132 kV Mariani(AS) - Golaghat line. 132 kV Bokajan -Dimapur(PG) line kept open to facilitate long shutdown of 220/132 kV, 100 MVA ICT-1 at Dimapur (PG) Substation.At 05:18 Hrs on 19.10.2020, 132 kV Mariani(AS) - Golaghat line tripped. Due to tripping of this element, Golaghat & Bokajan areas of Assam Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	15	GD 1
17	NER	23-10-2020	03:51	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line.At 03:51 Hrs on 23.10.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this are	0	18	GD 1
18	NER	24-10-2020	09:08	Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal(Yurembam) - Karong line and 132 kV Kohima - Karong line.At 09:08 Hrs on 24.10.2020, 132 kV Imphal(Yurembam) - Karong line and 132 kV Kohima - Karong line tripped. Due to tripping of these elements, Karong area of Manipur Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	GD 1
19	NER	29-10-2020	11:37	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line.At 11:37 Hrs on 29.10.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	19	GD 1
20	NER	30-10-2020	09:39	Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal(MA) - Karong line and 132 kV Karong-Kohima line.At 09:39 Hrs on 30.10.2020, 132 kV Imphal(MA) - Karong line and 132 kV Karong-Kohima line tripped. Due to tripping of these elements, Karong area of Manipur Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	10	GD 1
21	NER	04-11-2020	14:59	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 14:59 Hrs on 04.11.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	20	GD 1
22	NER	07-11-2020	05:17	Kohima (Capital) area of Nagaland Power System & Karong area of Manipur Power System were connected with rest of NER Grid through 132 Kohima -Wokha line,132 kV Karong -Kohima line & 132 kV Imphal(MA)- Karong line.(132 kV Dimapur(PG)- Kohima line was under continous S/D since 02/11/20) At 05:17 Hrs on 07.11.20, 132 Kohima -Wokha,132 kV Karong -Kohima line &132 kV Imphal (MA)- Karong line tripped. Due to tripping of these elements, Kohima (Capital) area of Nagaland Power System & Karong area of Manipur Power System were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	24	GD 1
23	NER	12-11-2020	10:18	Along area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Daporijo- Along line. At 10:18 Hrs on 12.11.2020, 132 kV Daporijo- Along line tripped. Due to tripping of this element, Along area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	GD 1

24	NER	16-11-2020	12:39	Capital area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Lekhi - Pare Line. (132 kV Pare - Itanagar line & 132 kV Ranganadi - Itanagar line were under outage due to tower collapse since 12.07.20 & 132 kV Nirjuli - Gohpur line was kept open to control loading of 132 kV Lekhi - Pare Line). At 12:39 Hrs on 16.11.20, 132 kV Lekhi - Pare Line tripped. Due to tripping of this element, Capital area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	26	GD 1
25	NER	17-11-2020	14:00	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 14:00 Hrs on 17.11.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	18	GD 1
26	NER	17-11-2020	14:41	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 14:41 Hrs on 17.11.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	17	GD 1
27	NER	23-11-2020	14:54	Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal(MA) - Karong line and 132 kV Karong-Kohima line. At 14:54 Hrs on 23.11.2020, 132 kV Imphal(MA) - Karong line and 132 kV Karong-Kohima line tripped. Due to tripping of these elements, Karong area of Manipur Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	GD 1
28	NER	05-12-2020	19:09	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line and 132 kV Tenga - Khupi Line. At 19:09 Hrs on 05.12.2020, 132 kV Balipara - Tenga line and 132 kV Tenga - Khupi Line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	25	GD 1
29	NER	07-12-2020	16:56	Yiangangpokpi area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal(Yurembam)- Yiangangpokpi 1 & 2 lines. 132 kV Thoubal - Kakching line and 132 kV Kakching-Kongba line kept open to avoid overloading of 132 kV Loktak - Ningthoukhong line. At 16:56 Hrs on 07.12.2020, 132 kV Imphal(Yurembam)- Yiangangpokpi 1 & 2 lines tripped. Due to tripping of these elements, Yiangangpokpi area of Manipur Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	46	GD 1
30	NER	13-12-2020	09:54	Zuangtui area of Mizoram Power System was connected with the rest of NER Grid through 132 kV Melriat - Zuangtui line. 132 kV Lunglei-Serchip line kept open due to system requirement by P&ED Mizoram. At 09:54 Hrs dtd 13.12.2020, 132 kV Melriat - Zuangtui line tripped. Due to tripping of this element, Zuangtui area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area. Zuangtui Area of Mizoram Power System was restored by charging 132 kV Melriat - Zuangtui line at 09:59 Hrs on 13.12.2020 0	0	30	GD 1

31	NER	25-12-2020	16:28	<p>Yiangangpokpi area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal(Yurembam)-Yiangangpokpi 1 & 2 lines. (132 kV Thoubal - Kakching and 132 kV Kakching-Kongba line was under open condition to avoid overloading of 132kv Loktak-Ningthoukhong line). Also, 132 kV Yangpokpi-Hundung line was faulty from 15:20 Hrs of 25-12-2020.</p> <p>At 16:28 hrs, 132kV Yangpokpi-Kongba line and 132 kV Imphal(Yurembum-Yangpokpi -2 tripped while charging 132 kV Yiangangpokpi-Hundung line . Due to tripping of this element, Kongba, Thoubal & Hundung area of Manipur Power system was seperated from rest of NER grid and subsequently collapsed due to no source in this area.</p> <p>Power was extended to Kongba S/S from Yiangangpokpi S/S by charging 132 kV Yiangangpokpi - Kongba T/L at 16:40 hrs. 132 kV Hundung S/S is still under blackout.</p>	0	48	GD 1
32	NER	25-12-2020	16:58	<p>Yiangangpokpi area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal(Yurembam)-Yiangangpokpi 1 & 2 lines. (132 kV Thoubal - Kakching and 132 kV Kakching-Kongba line was under open condition to avoid overloading of 132kv Loktak-Ningthoukhong line). Also, 132 kV Yangpokpi-Hundung line was faulty from 15:20 Hrs of 25-12-2020.</p> <p>At 16:58 hrs, 132 kV Yiangangpokpi - Kongba line tripped along with 132 kV Imphal(Yurembum) - Yiangangpokpi II line.Due to tripping of this element, Kongba & Thoubal area of Manipur Power system was seperated from rest of NER grid and subsequently collapsed due to no source in this area.</p> <p>Power was extended to Kongba S/S from Yiangangpokpi S/S by charging 132 kV Yiangangpokpi - Kongba T/L at 17:12 hrs.</p>	0	53	GD 1
33	NER	25-12-2020	23:19	<p>Churachandpur area of Manipur Power System was connected with the rest of NER Grid through 132 kV Ningthoukhong-Churachandpur I & II lines (132 kV Kakching - Thoubal & 132 kV Kakching - Kongba line was in open condition due to system requirement)</p> <p>At around 23:19 hrs, 132 kV Ningthoukhong - Churachandpur D/C tripped. Due to tripping of this element, Churachandpur area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.</p> <p>Power was extended to Churachandpur by charging 132 kV Ningthoukhong - Churachandpur D/C at 23:27 hrs and subsequently the radially connected substations were restored by 23:50 hrs.</p>	0	22	GD 1

B. Grid Incidence

1	NER	03-10-2020	02:35	AGBPP Unit-2 tripped at 02:35 Hrs on 03-10-2020 due to tripping of Gas Compressor 3 (Due to breaking of Fan belt of Cooling system). Revision done from Block No.19 on 03-10-2020	24	0	GI 2
2	NER	08-10-2020	01:13	AGTCCPP Unit 3 tripped at 01:13 Hrs on 08-10-20 due to Gas Fuel Control Pressure low. Revision done from Block No.13 on 08-10-20	29	0	GI 1
3	NER	08-10-2020	12:19	BgTPP Unit-3 tripped at 12:39 Hrs on 08-10-20 due to Loss of Fuel. Revision done from Block No.50 on 08-10-20.	300	0	GI 2
4	NER	09-10-2020	01:02	AGTCCPP Unit-3 tripped at 01:02 Hrs on 09-10-2020 due to Flame fault. Revision done from Block No.9 on 09-10-2020	20	0	GI 1
5	NER	14-10-2020	01:25	AGTCCPP Unit-5 tripped at 01:25 Hrs on 14-10-2020 due to Lube oil pressure low. Revision done from Block No.15 on 14-10-2020.	19	0	GI 1
6	NER	14-10-2020	01:45	AGTCCPP Unit- 6 tripped at 01:45 Hrs on 14-10-2020 due to Exhaust steam pressure high. Revision done from Block No.15 on 14-10-2020.	22	0	GI 1
7	NER	14-10-2020	04:47	Kameng Unit-1 tripped at 04:47 Hrs on 14-10-2020 due to Faulty field Breaker. Revision done from Block No.29 on 14-10-2020.	155	0	GI 2
8	NER	20-10-2020	07:31	Kameng Unit I tripped at 07:31 Hrs on 20-10-20 due to Reverse Power Protection Operation . Revision of schedule done from Block No.37 on 20-10-20	150	0	GI 2
9	NER	20-10-2020	12:22	BgTPP Unit 3 tripped at 12:22 Hrs on 20-10-20 due to tripping of primary air fan . Revision of schedule done from Block No.57 on 20-10-20	130	0	GI 2
10	NER	23-10-2020	12:03	AGTCCPP Units 3 & 6 tripped at 12:03 Hrs on 23-10-20 due to tripping of cooling fan. Revision done from Block No.57 on 23-10-20	15	0	GI 1
11	NER	03-11-2020	12:30	Kameng Unit II tripped at 12:30 Hrs on 03-11-20 due to over current. Revision of schedule done from Block No.59 on 03-11-20	114	0	GI 2
12	NER	11-11-2020	03:27	Khandong Unit-2 tripped at 03:27 Hrs on 11-11-2020 due to problem in DVR. Revision done from Block No.27 on 11-11-2020.	24.5	0	GI 1
13	NER	13-11-2020	06:22	AGBPP Unit-4 tripped at 06:22 Hrs on 13-11-2020 due to tripping of Gas compressor-4. Revision done from Block No.33 on 13-11-2020.	30.5	0	GI 2
14	NER	14-11-2020	19:25:00	AGBPP Unit-3,4& STG II tripped at 19:25 Hrs on 14-11-2020 due to tripping of Gas compressor-3. Revision done from Block No.85 on 14-11-2020.	45.2	0	GI 2
15	NER	15-11-2020	03:17	AGBPP Unit-1 tripped at 03:17 Hrs on 15-11-2020 due to tripping of Gas compressor-1. Revision done from Block No.21 on 15-11-2020.	24	0	GI 2
16	NER	18-11-2020	18:41:00	BgTPP Unit-1 tripped at 18:41 Hrs on 18-11-2020 due to tripping of Boiler. Revision done from Block No.83 on 18-11-2020	193	0	GI 2
17	NER	20-11-2020	00:59:00	Kameng Unit-2 tripped at 00:59 Hrs on 20.11.20 due to tripping of GT. Revision done from Block No.15 on 20-11-2020.	148	0	GI 2
18	NER	21-11-2020	04:22	Palatana Unit ST-I tripped at 04:22 Hrs on 21.11.20 due to Stator Earth Fault. Revision done from Block No.25 on 21-11-2020.	161	0	GI 2
19	NER	22-11-2020	23:09	Kameng Unit 2 tripped at 23:09 Hrs on 22.11.20 due to operation of Generating Transformer Buchholz Relay. Revision done from Block No.05 on 23-11-2020.	127	0	GI 2
20	NER	24-11-2020	04:22	AGBPP Unit 1, 2, 3, 4, 5, 7 & 8 tripped at 04:22 Hrs on 24.11.20 due to auxiliary power failure . Revision done from Block No.25 on 24-11-2020.	190	0	GI 2
21	NER	30-11-2020	02:49	Palatana Unit GT-II tripped at 02:49 Hrs on 30.11.20 due to Stator Earth Fault. Revision done from Block No.19 on 30-11-2020.	319	0	GI 2
22	NER	14-12-2020	21:47	Palatana Unit 4 tripped at 21:47 Hrs on 14.12.20 due to HP/IP front general bearing vibration high . Revision done from Block No.95 on 14-12-2020.	119	0	GI 2

23	NER	18-12-2020	10:32	BgTPP Unit 3 tripped at 10:32 Hrs on 18.12.20 due to tripping of Boiler. Revision done from Block No.49 on 18-12-2020.	220	0	GI 2
24	NER	28-12-2020	18:08	Kameng HEP - UNIT 1 tripped at 18:08 Hrs on 28.12.20 due to Stator Earth fault. Revision done from Block No.79 on 28-12-2020.	150	0	GI 2

7. High Voltage

The following lines were opened to maintain voltage profile of 400 kV Bus(s) at Misa, Balipara, Bongaigaon, Biswanath Chariali & Ranganadi within IEGC band:-

Nil

8. Lines opened to control overloading :

a	132 kV Imphal-Ningthoukhong
b	132 kV Kamalpur – Ambassa line
c	132kV Nirjuli-Gohpur Line
d	132 kV Umtru – Kahilpara D/C and 132 kV Umtru Sarusajai D/C

9. Lines under long outage :

a	132 kV Panchgram-Srikona (out since 14.01.19)
b	132kV Jiribam – Rengpang

10. Transformers/ICTs/Reactor under long outage :

a	420 kV, 63 MVAR Bus Reactor at Byrnihat
b	420 kV, 63 MVAR line reactor of Palatana-Silchar-I at 400 kV Palatana (under force outage since 25.04.2019)

11. Transmission line constraint :

a	220 kV BTPS-Salakati I & II lines(POWERGRID)
b	132 kV Biswanath Chariali (PG) – Biswanath Chariali (AS) I & II line (POWERGRID)

12. Transformation Constraints :

Transformation capacity at the following location is inadequate as these transformers were overloaded frequently during peak hours:-

a	400/132 kV, 2x125 MVA ICT at Palatana
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13.'N-1 criterion not satisfied for the following Transformers :

a	220/132 kV, 160 MVA ICT at Kopili
b	400/132 kV, 2x125 MVA ICT at Palatana

14. Generation Constraints

Major Generation outage :

SI No	Name of Power Station	Unit No	Rating in MW	Owner	Outage		Restoration		Reason/Remarks
					Date	Time (Hrs)	Date	Time (Hrs)	
1	Kameng	Unit 2	150.00	NEEPCO	03-11-2020	12:30	05-11-2020	13:47	UAT Tripped on OC
2	AGBPP	Unit 6	33.50	NEEPCO	03-11-2020	20:31	10-11-2020	12:26	Due to high vibration in turbine
3	Palatana Unit ST-I	STG 1	131.00	OTPC	21-11-2020	04:22	25-11-2020	03:17	Stator Earth Fault
4	Monarchak Unit ST	STG	35.58	NEEPCO	22-12-2020	04:30	24-12-2020	12:41	High oil temperature

15. Generation Capacity Addition :

During Oct'20-Dec'20

SI No	पावर स्टेशन का नाम / Name of Power Station	यूनिट संख्या / Unit No	मेगावाट क्षमता / Capacity in MW	Owner / स्वामी	चालू तिथि / Commissioning Date	वाणिज्यिक परिचालन की तिथि / Date of Commercial Operation
Nil						

16. Transmission/Transformation/Reactive Capacity Addition :

During Oct-Dec'20

SI No	तत्व का नाम / Name of Element	रेटिंग/क्षमता एमवर/एमवीए/केवी Rating/ Capacity in MVAR/MVA/kV	उपयोगिता / Utility	कमिशनिंग की तारीख / Commissioning date
1	132/33 kV 50 MVA Transformer at Dhaligaon S/s	132/33 KV	AEGCL	03.10.2020
2	132/33 kV 40 MVA Transformer at Barnagar S/s	132/33 KV	AEGCL	07.10.2020
3	132 kV Kokrajhar – Bilasipara II line	132/33 KV	AEGCL	28.10.2020
4	220 KV Bay of 400/220 KV 500 MVA ICT 1 at NEW Mariani S/s	400/220 KV	POWERGRID	03.11.2020
5	132 KV BTPS-Kokrajhar II line	132 KV	AEGCL	07.11.2020
6	400 KV Imphal - New Kohima CKT 1 & 2	400 kV	KMTL	10.11.2020
7	400 KV 125 MVAR Bus Reactor I & II at New Kohima S/s	400 kV	KMTL	10.11.2020
8	400 KV Bus I & II at New Kohima S/s	400 kV	KMTL	10.11.2020
9	400/220 KV 500 MVA ICT I & II at New Kohima S/s	400 kV	KMTL	10.11.2020
10	220 KV Main Bus I, Main Bus II & Transfer Bus at New Kohima S/s	400 kV	KMTL	10.11.2020
11	132/33 kV 25 MVA Transformer at Bokajan S/s	132/33 KV	AEGCL	22.11.2020
12	400 kV New Kohima - New Mariani line 1 & 2	400 kV	KMTL	07.12.2020
13	132 kV Budhjung Nagar (TSECL)-Surajmani Nagar(Sterlite) line 1 & 2	132 KV	TSECL	28.12.2020
14	00 kV New Mariani Ckt I & Ckt II Main bay at New Kohima Substation	400 kV	KMTL	07.12.2020
15	400 kV New Mariani Ckt I & Ckt II Tie bay at New Kohima Substation	400 kV	KMTL	07.12.2020
16	400 kV Misa I & II Main Bay at Silchar Substation	400 kV	POWERGRID	07.12.2020

17	400 kV Tie Bay of Misa I & II and Future Melriat at Silchar Substation	400 kV	POWERGRID	07.12.2020
18	400 kV Future Melriat Bay at Silchar Substation	400 kV	POWERGRID	07.12.2020
19	400 kV Silchar I & II Main Bay at Misa Substation	400 kV	POWERGRID	11.12.2020
20	400 kV New Mariani 1 Main Bay at Misa Substation	400 kV	POWERGRID	11.12.2020
21	80 MVAR Silchar 1 & 2 Line Reactor Bay at Misa Substation	400 kV	POWERGRID	11.12.2020
22	400 kV New Mariani II Main Bay at Misa Substation	400 kV	POWERGRID	11.12.2020
23	400 kV Tie Bay of Silchar 1 & 2 and New Mariani 1 & 2 at Misa Substation	400 kV	POWERGRID	11.12.2020
24	400 kV/220kV ICT 2 at New Mariani Substation	400 kV	POWERGRID	23.12.2020
25	420 kV Bus Reactor 2 Bay at New Mariani Substation	400 kV	POWERGRID	25.12.2020
26	80 MVAR Silchar 1 & 2 Line Reactor at Misa Substation	400 kV	POWERGRID	11.12.2020
27	400 kV Main Bus-II at New Mariani Substation	400 kV	POWERGRID	23.12.2020
28	400 kV Main Bus-I at New Mariani Substation	400 kV	POWERGRID	25.12.2020
29	132 kV Main Bus-I & Bus -II at Surajmaninagar Substation	400 kV	STERLITE	28.12.2020