



# उपक्षे का तिमाही सिस्टम स्टेटास रिपोर्ट जनवरी '21 - मार्च'21

## Quarterly System Operation Report of North Eastern Region Jan'21 - Mar'21

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**



उपक्षे का तिमाही सिस्टम स्टेटस रिपोर्ट / Quarterly Report of North Eastern Region  
अवधि के लिए / for the period w.e.f 01-Jan-21 to 31-Mar-21

"पर जारी / Issued on : 20 Apr 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			बोनगैगांव 400 केवी Bongaigaon 400 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
January'2021	1.038	0.973	0.00%	1.040	0.980	0.00%	1.045	0.988	0.00%
February'2021	1.043	0.970	0.00%	1.048	0.973	0.00%	1.050	0.965	0.00%
March'2021	1.050	0.983	0.00%	1.043	0.980	0.00%	1.048	0.983	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
January'2021	1.060	0.978	0.71%	1.045	0.988	0.00%	1.045	0.973	0.00%
February'2021	1.045	0.970	0.00%	1.040	0.980	0.00%	1.043	0.975	0.00%
March'2021	1.065	0.978	1.49%	1.038	0.978	0.00%	1.050	0.975	0.00%

माह / 'Month	विश्वनाथ चाराली 400 केवी Biswanath Charali 400 kV			अज़रा' 400 केवी /Azara 400 kV			बीजीटीपीपी 400 केवी / BgTPP 400 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
January'2021	1.043	0.975	0.00%	1.045	0.975	0.00%	1.048	0.990	0.00%
February'2021	1.045	0.970	0.00%	1.045	0.988	0.00%	1.050	0.995	0.00%
March'2021	1.048	0.975	0.00%	1.045	1.000	0.00%	1.053	0.978	0.11%

माह / 'Month	बारनीहाट 400 केवी / Byrnihat 400 kV			मीसा 220 केवी / Misa 220 kV			एजिबिपिपी 220 केवी AGBPP 220 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
January'2021	1.048	0.990	0.00%	1.041	0.968	0.00%	1.077	1.014	0.00%
February'2021	1.048	0.995	0.04%	1.032	0.968	0.00%	1.073	0.995	0.00%
March'2021	1.053	0.988	0.04%	1.032	0.968	0.00%	1.064	0.955	0.00%

माह / 'Month	मोकोकचुंग 220 केवी/ Mokokchung 220 kV			आइजोल 132 केवी / Aizawl 132 kV			एम्फल 400 केवी/ Imphal 400 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
January'2021	1.068	0.968	0.00%	1.061	0.902	0.02%	1.060	0.968	0.11%
February'2021	1.055	0.973	0.00%	1.061	0.924	0.00%	1.053	0.973	0.01%
March'2021	1.066	0.973	0.00%	1.076	0.932	0.00%	1.055	0.975	0.05%

माह / 'Month	न्यू कोहीमा 400 केवी/ New Kohima 400 kV			मरियानी 400 केवी / Mariani(PG) 400 kV			पीके बारी 400 केवी/ PK Bari(STERLITE) 400 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
January'2021	1.909	1.755	0.00%	-	-	-	-	-	-
February'2021	1.914	1.759	0.01%	1.050	0.965	0.00%	1.049	1.000	0.01%
March'2021	1.914	1.768	0.00%	1.048	0.970	0.00%	1.050	0.965	0.05%

माह / 'Month	सुरजमानीनगर 400 केवी/ Surajmaninagar 400 kV		
	Max	'Min	VDI
January'2021	0.000	0.000	0.00%
February'2021	1.049	0.975	0.00%
March'2021	1.050	0.977	0.00%

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)
January'2021	4.600	76.080	19.320	23.810
February'2021	6.890	76.490	16.620	23.510
March'2021	6.850	73.430	19.720	26.570

2. बिजली आपूर्ति की स्थिति / Power Supply Position

a) Peak Demand Met and Unrestricted Demand (MW)

MONTH	STATE	PK REQ	PK DMD MET	SHORTAGE %
January'2021	अरुणाचल प्रदेश / Arunachal Pradesh	149	149	0.0
	असम / Assam	1461	1461	0.0
	मणिपुर / Manipur	239	239	0.0
	मेघालय / Meghalaya	376	376	0.0
	मिजोरम / Mizoram	128	128	0.0
	नगालैंड / Nagaland	134	134	0.0
	त्रिपुरा / Tripura	228	228	0.0
	क्षेत्र / Region	2715	2715	0.0
February'2021	Pradesh	156	144	7.6
	असम / Assam	1485	1485	0.0
	मणिपुर / Manipur	231	231	0.0
	मेघालय / Meghalaya	377	377	0.0
	मिजोरम / Mizoram	132	132	0.0
	नगालैंड / Nagaland	152	149	2.2
	त्रिपुरा / Tripura	241	241	0.0
	क्षेत्र / Region	2774	2759	0.5
March'2021	Pradesh	143	128	10.3
	असम / Assam	1747	1730	1.0
	मणिपुर / Manipur	216	216	0.0
	मेघालय / Meghalaya	348	348	0.0
	मिजोरम / Mizoram	109	109	0.0
	नगालैंड / Nagaland	150	149	0.8
	त्रिपुरा / Tripura	256	256	0.0
	क्षेत्र / Region	2969	2935	12.1

b) Energy Met and Requirement (MU)

MONTH	STATE	Energy REQ	Energy MET	SHORTAGE %
January'2021	अरुणाचल प्रदेश / Arunachal Pradesh	74.29	74.29	0.00
	असम / Assam	728.42	728.09	0.05
	मणिपुर / Manipur	103.58	103.26	0.31
	मेघालय / Meghalaya	208.94	208.92	0.01
	मिजोरम / Mizoram	79.49	63.41	20.23
	नगालैंड / Nagaland	65.87	65.87	0.00
	त्रिपुरा / Tripura	168.88	168.88	0.00
	क्षेत्र / Region	1429.48	1412.73	1.17
February'2021	अरुणाचल प्रदेश / Arunachal Pradesh	67.05	66.77	0.42
	असम / Assam	684.47	673.29	1.63
	मणिपुर / Manipur	83.48	83.19	0.35
	मेघालय / Meghalaya	179.92	175.79	2.30
	मिजोरम / Mizoram	54.94	54.64	0.55
	नगालैंड / Nagaland	59.92	59.64	0.47
	त्रिपुरा / Tripura	158.32	158.32	0.00
	क्षेत्र / Region	1288.10	1271.64	1.28
March'2021	अरुणाचल प्रदेश / Arunachal Pradesh	72.42	71.82	0.83
	असम / Assam	837.63	792.84	5.35
	मणिपुर / Manipur	78.24	77.88	0.46
	मेघालय / Meghalaya	186.21	171.98	7.64
	मिजोरम / Mizoram	53.42	53.07	0.66
	नगालैंड / Nagaland	64.20	63.78	0.65
	त्रिपुरा / Tripura	221.00	220.58	0.19
	क्षेत्र / Region	1513.13	1451.96	4.04

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

जलाशय / Reservoir	As on 31-Mar-20		As on 31-Mar-21	
	जलाशय स्तर / Water Level	एमयू सामग्री / MU Content	जलाशय स्तर / Water Level	एमयू सामग्री / MU Content
खांडोंग / Khandong	709.6	6.0	713.6	13.0
कोपिली / Kopili	0.0	-	0.0	-
लोकतक / Loktak	767.1	36.0	767.7	73.0
बारापानी / Barapani	967.8	11.0	974.9	29.0
गुमती / Gumti	86.9	6.0	0.0	-
डोयांग / Doyang	307.7	2.0	322.1	30.0

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

Month	State	Schedule Drawl (MU)	Actual Drawl (MU)	Deviation (MU)
January'2021	अरुणाचल प्रदेश / Arunachal Pradesh	74.997	71.091	-3.906
	असम / Assam	575.405	580.228	4.823
	मणिपुर / Manipur	102.290	103.261	0.971
	मेघालय / Meghalaya	149.252	148.964	-0.288
	मिजोरम / Mizoram	47.656	48.794	1.138
	नगालैंड / Nagaland	61.187	61.062	-0.126
	त्रिपुरा / Tripura	74.913	63.202	-11.712
February'2021	अरुणाचल प्रदेश / Arunachal Pradesh	65.210	64.211	-0.999
	असम / Assam	539.256	544.373	5.117
	मणिपुर / Manipur	84.185	83.189	-0.997
	मेघालय / Meghalaya	120.738	125.010	4.272
	मिजोरम / Mizoram	41.860	42.570	0.710
	नगालैंड / Nagaland	57.427	56.511	-0.916
	त्रिपुरा / Tripura	59.954	49.788	-10.167
March'2021	अरुणाचल प्रदेश / Arunachal Pradesh	69.322	69.201	-0.121
	असम / Assam	650.692	653.332	2.641
	मणिपुर / Manipur	80.433	77.885	-2.548
	मेघालय / Meghalaya	135.890	136.071	0.181
	मिजोरम / Mizoram	43.667	44.236	0.569
	नगालैंड / Nagaland	62.860	60.714	-2.146
	त्रिपुरा / Tripura	106.019	100.438	-5.581

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
January'2021	24.453	0.694	-176.928	176.500	-160.120	165.900
February'2021	21.043	0.472	-112.811	124.870	-120.745	135.000
March'2021	20.831	1.053	95.166	10.800	145.900	8.890

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
January'2021	62.050	0	15.670	0.830	0.740	0
February'2021	60.620	0	19.340	0.420	0.645	0
March'2021	98.400	0	16.890	3.540	0.736	0

## 6. एनईआर प्रणाली में गिड 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

SI No	Region	Outage		Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards
		Date	Time				
1	NER	1/5/2021	15:01	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 15:01 Hrs on 05.01.2021, 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
2	NER	1/9/2021	19:20	Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along - Pasighat line. At 19:40 Hrs on 09.01.2021, 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	20	GD 1
3	NER	1/16/2021	13:05	Kameng area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 400 kV Balipara - Kameng line I & II. At 13:05 Hrs on 16.01.2021, 400 kV Balipara - Kameng line I & II tripped. Due to tripping of these elements, Kameng area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	155	0	GD 1
4	NER	1/22/2021	9:36	Kongba & Thoubal area of Manipur Power System was connected with the rest of NER Grid through 132 kV Yiangangpokpi -Kongba line. 132 kV Thoubal-Kakching line is under planned outage. At 09:36 Hrs on 22.01.2021, 132 kV Yiangangpokpi -Kongba line tripped. Due to tripping of this element, Kongba & Thoubal area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	40	GD 1
5	NER	1/27/2021	18:52	Yiangangpokpi, Hundung, Kongba & Thoubal area of Manipur Power System was connected with the rest of NER Grid through 132 kV Yurembam -Yiangangpokpi D/C line. 132 kV Thoubal-Kakching line is kept opened in order to avoid the overloading of Loktak-Ningthoukhong line. At 18:52 Hrs on 27.01.2021, 132 kV Yurembam-Yiangangpokpi D/C line tripped. Due to tripping of this element, Yiangangpokpi, Hundung, Kongba & Thoubal area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area."	0	56	GD 1
6	NER	1/30/2021	7:07	Yiangangpokpi, Hundung, Kongba & Thoubal area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal(Yurembam)- Yiangangpokpi D/C lines. (132 kV Thoubal - Kakching is kept open to avoid overloading of 132kv Loktak-Ningthoukhong line ). At 07:07 hrs on 30.01.2021, 132 kV Imphal(Yurembam)- Yiangangpokpi D/C lines tripped. Due to tripping of this element Yiangangpokpi, Hundung, Kongba & Thoubal area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	56	GD 1
7	NER	2/8/2021	15:15:00	Along area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Daporijo- Along line. At 15:15 Hrs on 08.02.2021, 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	11	GD 1
8	NER	2/9/2021	19:13:00	Along area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Daporijo- Along line. At 19:13 Hrs on 09.02.2021, 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	26	GD 1

9	NER	2/17/2021	11:04	Lumshnong Area of Meghalaya Power System was connected to the rest of NER grid through 132 kV Lumshnong - Panchgram line. 132 kV Khliehriat(MePTCL) - Lumshnong line was kept open to maintain Silchar gate flow during the shutdown of 400 kV Silchar-Killing line. At 11:04 hrs of 17.02.2021, 132 kV Lumshnong - Panchgram line tripped. Due to tripping of these elements, Lumshnong Area of Meghalaya Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	19	GD 1
10	NER	2/18/2021	14:54	Panchgram Area of Assam Power System was connected to the rest of NER grid through 132 kV Lumshnong - Panchgram line & 132 kV Hailakandi-Panchgram line. 132 kV Badarpur-Panchgram line was kept under emergency shutdown for replacement of R-ph Male & Female contact of the line isolator installed in PG Bay at Panchgram S/S. At 14:54 hrs of 18.02.2021, 132 kV Lumshnong - Panchgram line & 132 kV Hailakandi-Panchgram line tripped. Due to tripping of these elements, Panchgram Area of Assam Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	24	GD 1
11	NER	2/19/2021	15:06	Churachandpur area of Manipur Power System was connected with the rest of NER Grid through 132 kV Ningthoukhong-Churachandpur D/C. 132 kV Kakching - Thoubal T/L was in open condition due to system requirement. At around 15:06 Hrs of 19.02.2021, 132 kV Ningthoukhong - Churachandpur D/C. 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	26	GD 1
12	NER	2/24/2021	18:50	Loktak area of Manipur Power System was connected with the rest of NER Grid through 132kV Loktak-Jiribam, 132kV Loktak-Imphal, 132kV Loktak-Ningthoukhong, 132kV Loktak-Rengpang. 132 kV Jiribam-Rengpang was under prolonged outage. At around 18:50 Hrs on 24.02.2021, 132kV Loktak-Jiribam, 132kV Loktak-Imphal, 132kV Loktak-Ningthoukhong, 132kV Loktak-Rengpang, Loktak Unit-I, II & III tripped. Due to tripping of these elements, Loktak area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	104	2	GD 1
13	NER	2/28/2021	11:21	Luangmual, Melriat & Lunglei areas of Mizoram Power System were radially connected with the rest of NER Grid through 132kV Aizawl-Luangmual line. 132 kV Serchhip-Lunglei line was under open condition to avoid overloading of 132 KV Aizawl-Luangmual line. At around 11:21 Hrs on 28.02.2021, 132 KV Aizawl-Luangmual line tripped due to puncture of 33 kV LT cable of 132/33 kV, 12.5 MVA Transformer at Luangmual. Due to tripping of this element, Luangmual, Melriat & Lunglei areas of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	31	GD 1
14	NER	3/2/2021	5:12	Churachandpur area of Manipur Power System was connected with the rest of NER Grid through 132 kV Ningthoukhong-Churachandpur D/C. 132 kV Kakching - Thoubal T/L was in open condition due to system requirement. At around 05:12 hrs on 02.03.2021, 132 kV Ningthoukhong - Churachandpur D/C 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	18	GD 1
15	NER	3/2/2021	8:55	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 08:55 Hrs on 02.03.2021, 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	11	GD 1
16	NER	3/6/2021	9:33	BTPS area of Assam Power System comprises of downstream load of 132 kV bus of Dhaligaon, Kokrajhar, Gossaigaon, Gauripur, Bilasipara and Bornagar S/S was connected with the rest of NER Grid through 220/132 kV, 100 MVA ICT I & 160 MVA ICT II at BTPS(AS). 132 kV Bornagar- Rangia line and 132 kV Dhaligaon-Nalbari line were kept opened for system requirements. At 09:33 Hrs on 06.03.2021, 220/132 kV, ICT I & II at BTPS along with 220 kV Salakati-BTPS D/C tripped. Due to tripping of this element, BTPS area was separated from rest of NER grid and collapsed due to no source in this area.	0	90	GD 1

17	NER	3/7/2021	12:05	Tenga & Khupi areas of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 12:05 Hrs on 07.03.2021, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Tenga & Khupi areas of Arunachal Pradesh Power System were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas.	3.8	17	GD 1
18	NER	3/10/2021	16:14	"Yiangangpokpi, Kongba, Hundung and Thoubal Area of Manipur Power system was connected with the rest of NER Grid through 132 kV Imphal-Yiangangpokpi D/C line. At 16:14 Hrs on 10.03.2021, 132 kV Imphal-Yiangangpokpi D/C line tripped. Due to tripping of these elements, Yiangangpokpi, Kongba, Hundung and Thoubal Areas of Manipur Power System were separated from the rest of NER Grid and subsequently collapsed due to no source in these areas.	0	25	GD 1
19	NER	3/12/2021	12:30	Kongba and Thoubal Area of Manipur Power system were connected with the rest of NER Grid through 132 kV Yiangangpokpi - Kongba line. At 12:30 Hrs on 12.03.2021, 132 kV Yiangangpokpi - Kongba line tripped. Due to tripping of this element, Kongba and Thoubal Areas of Manipur Power System were separated from the rest of NER Grid and subsequently collapsed due to no source in these areas.	0	13	GD 1
20	NER	3/13/2021	11:48	Mokokchung, Sanis and Wokha Areas of Nagaland Power system were connected with the rest of NER Grid through 132 kV Mokokchung (PG) - Mokokchung (DoP, Nagaland) 1&2 lines, 132 kV Doyang - Mokokchung (DoP, Nagaland) line, 132 kV Kohima-Wokha line & 132kV Doyang-Sanis line. 132 kV Mariani (AS) - Mokokchung (DoP, Nagaland) line kept idle charged at Mokokchung (DoP, Nagaland) end. At 11:48 Hrs on 13.03.2021, 132 kV Mokokchung (PG) - Mokokchung (DoP, Nagaland) 1&2 lines, 132 kV Doyang - Mokokchung (DoP, Nagaland) line, 132 kV Kohima-Wokha line & 132kV Doyang-Sanis line tripped. Due to tripping of these elements, Mokokchung, Sanis and Wokha Areas of Nagaland Power system were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas.	30	22	GD 1
21	NER	18/03/2021	5:49	Daporijo Area of Arunachal Pradesh Power system were connected with the rest of NER Grid through 132 kV Ziro- Daporijo Line. At 05:49 Hrs on 18.03.2021, 132 kV Ziro- Daporijo Line tripped. Due to tripping of these elements, Daporijo area of Arunachal Pradesh were separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	17	GD 1
22	NER	07/11/2020	5:17	Rabindranagar area of Tripura Power System & Monarchak Power Station were connected with rest of NER Grid through 132 kV Monarchak- Udaipur line and 132 kV Monarchak - Rokhia line. At 11:00 Hrs on 20.03.21, 132 kV Monarchak- Udaipur line and 132 kV Monarchak - Rokhia line tripped. Due to tripping of these elements, Rabindranagar area of Tripura Power System & Monarchak Power Station were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	98	6	GD 1
23	NER	27/03/2021	7:43	220 kV Jawaharnagar substation of Assam Power System is connected with rest of NER grid through 220 kV Jawaharnagar - Sarusajai Line & 220 kV Jawaharnagar - Samaguri Line. At 07:43 Hrs on 27.03.21, 220 kV Jawaharnagar - Sarusajai Line & 220 kV Jawaharnagar - Samaguri Line tripped. Due to tripping of these elements, Jawaharnagar area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source in the area.	0	25	GD 1
24	NER	30/03/2021	22:27:00	Churachandpur, Elangkangpokpi, Kakching & New Moreh areas of Manipur Power System is connected with rest of NER grid through 132 kV Ningthoukong - Churachandpur 1 & 2 lines. 132 KV Kakching - Thoubal line was under shutdown to avoid overloading of 132 KV Loktak - Ningthoukong line. At 22:37 Hrs on 30.03.21, 132 kV Ningthoukong - Churachandpur D/C lines tripped. Due to tripping of these elements, Churachandpur, Elangkangpokpi, Kakching & New Moreh areas of Manipur Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	20	GD 1



**B. Grid Incidence**

1	NER	1/18/2021	6:05	AGBPP Unit 2 tripped at 06:05 Hrs on 18.01.21 due to Desyn due to tripping of Gas compressor. Revision done from Block No.31 on 18-01-2021.	30	0	GI 2
2	NER	1/21/2021	6:05	AGBPP Unit 3 tripped at 06:05 Hrs on 21.01.21 due to Desyn due to Due to control system problem. Revision done from Block No.35 on 21-01-2021.	30	0	GI 2
3	NER	1/26/2021	16:44	Khandong Unit 1 tripped at 16:44 Hrs on 26.01.21 due to the problem in Generator CB. Revision done from Block No.77 on 26-01-2021.	2.7	0	GI 1
4	NER	2/5/2021	13:40:00	AGBPP Unit-5 tripped at 13:40 Hrs on 05-02-21 due to High temperature in Lubricant oil . Revision done from Block No.63 on 05-02-21	28.8	0	GI 2
5	NER	2/14/2021	12:11	AGBPP Unit-6 tripped at 12:11 Hrs on 14-02-21 due to tripping of auxilliary unit . Revision done from Block No.55 on 14-02-21	30.6	0	GI 1
6	NER	2/16/2021	17:59:00	BGTPP Unit 2 tripped due to tripping of forced draft fan. Revision done from Block No.79 on 16-02-21	227.5	0	GI 2
7	NER	2/20/2021	11:54	BGTPP Unit 1 tripped due to DC electrical fault (mal-operation). Revision done from Block No.55 on 20-02-21	125	0	GI 2
8	NER	2/28/2021	17:37	BGTPP Unit 3 tripped at 17:37 hours on 28-02-21 due to flame failure. Revision done from Block No. 77 on 28-02-21	130	0	GI 2
9	NER	3/5/2021	0:30	AGBPP Unit 6 tripped at 00:30 hours on 05-03-21. Revision done from Block No. 11 on 05-03-21	38	0	GI 2
10	NER	3/6/2021	17:56	Doyang Unit 3 tripped at 17:56 hours on 06-03-21. Revision done from Block No. 79 on 06-03-21	21	0	GI 1
11	NER	3/7/2021	14:03	BgTTP Unit 3 tripped at 14:03 hours on 07-03-21. Revision done from Block No. 63 on 07-03-21	127	0	GI 2
12	NER	3/30/2021	14:58	AGBPP Unit 2 tripped at 14:58 hours on 30-03-21. Revision done from Block No. 67 on 30-03-21.	29.9	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
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**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 – Kahilipara 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 (Pavoi) (AEGCL) I & II lines (PowerGrid)

**12. Transformation Constraints :**

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

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

**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 :

Sl No	Name of Power Station	Unit No	Rating in MW	Owner	Outage		Restoration		Reason/Remarks
					Date	Time (Hrs)	Date	Time (Hrs)	
1	AGBPP	Unit 5	33.50	NEEPCO	2/4/2021	2:12	4/2/2021	15:12	Tripped due to high lube oil header temperature
2	AGBPP	Unit 9	33.50	NEEPCO	2/4/2021	2:16	4/2/2021	16:18	Due to tripping of unit-5

15. Generation Capacity Addition :

During Jan'21-Mar'21

Sl 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
1	Kameng	3	150	NEEPCO	14.01.21	22.01.21
2	Kameng	4	150	NEEPCO	19.01.21	12.02.21

16. Transmission/Transformation/Reactive Capacity Addition :

During Jan-Mar'21

Sl. No.	तत्व का नाम / Name of Element	रेटिंग/क्षमता एमवर/एमवीए/केवी Rating/ Capacity in MVAR/MVA/kV	उपयोगिता / Utility	चार्ज करने की तारीख / Charging date
1	400 kV/132 kV ICT 1 at Surajmani Nagar (Sterlite) Substation	400/132	STERLITE	08.01.2021
2	132kV Main Bay of 315 MVA ICT-1 at SM Nagar (Sterlite)	132 kV	STERLITE	08.01.2021
3	400 kV Main Bus 2 at SM Nagar(Sterlite)	400 kV	STERLITE	09.01.2021
4	400 kV Main Bay (409) of 315 MVA ICT-1 at SM Nagar (Sterlite)	400 kV	STERLITE	09.01.2021
5	400 kV/132 kV ICT 2 at Surajmani Nagar (Sterlite) Substation	400/132	STERLITE	10.01.2021
6	400 kV Main Bay (407) of Palatana-I at SM Nagar (Sterlite)	400 kV	STERLITE	10.01.2021
7	400 kV Tie Bay (408) of Palatana-1 & 315 MVA ICT-1 at SM Nagar (Sterlite)	400 kV	STERLITE	10.01.2021

8	400 kV Main Bay (412) of 315 MVA ICT-2 at SM Nagar (Sterlite)	400 kV	STERLITE	10.01.2021
9	132kV Main Bay of 315 MVA ICT-2 at SM Nagar (Sterlite)	132 kV	STERLITE	10.01.2021
10	400 kV Main Bay (410) of Palatana-II at SM Nagar (Sterlite)	400 kV	STERLITE	10.01.2021
11	400 kV Tie Bay (411) of Palatana-II & 315 MVA ICT-2 at SM Nagar (Sterlite)	400 kV	STERLITE	10.01.2021
12	400kV 125MVAR Bus Reactor-1 Bay at Surajmaninagar (Sterlite)	400 kV	STERLITE	11.01.2021
13	400kV PK Bari-II Bay at Surajmaninagar (Sterlite)	400 kV	STERLITE	11.01.2021
14	400kV Tie Bay of PK Bari-II and 125 MVAR BR-1 at Surajmaninagar (Sterlite)	400 kV	STERLITE	11.01.2021
15	Kameng unit 3	400 kV	NEEPCO	14.01.2021
16	Kameng unit 4	400 kV	NEEPCO	19.01.2021
17	400 kV Surajmani Nagar(Sterlite)-PK Bari	400 kV	STERLITE	19.01.2021
18	400 kV SM Nagar-1 (ISTS) Main-2 Bay (421) at Palatana	400 kV	OTPC	19.01.2021
19	400 kV SM Nagar-2 (ISTS) Main-2 Bay (418) at Palatana	400 kV	OTPC	19.01.2021
20	400 kV SM Nagar-2 (ISTS) Main -1 Bay (417) at Palatana	400 kV	OTPC	19.01.2021
21	400kV Main Bus I at PK Bari	400 kV	STERLITE	20.01.2021
22	400kV Main Bus II at PK Bari	400 kV	STERLITE	20.01.2021
23	400kV Main Bay (410) of Surajmaninagar II at PK Bari	400 kV	STERLITE	20.01.2021
24	400kV Main Bay (409) of 315 MVA ICT-1 at PK Bari (Sterlite)	400 kV	STERLITE	20.01.2021
25	400kV PK Bari -I Main Bay(404) at Surajmaninagar (Sterlite)	400 kV	STERLITE	21.01.2021
26	400kV Tie Bay (408) of Surajmaninagar (Sterlite)-I & ICT-I at PK Bari-I (Sterlite)	400 kV	STERLITE	21.01.2021
27	400 kV Surajmani Nagar(Sterlite)-PK Bari	400 kV	STERLITE	21.01.2021

28	132 kV Main Bus-1 at PK Bari(Sterlite)	132 kV	STERLITE	21.01.2021
29	132 kV Main Bus-2 at PK Bari(Sterlite)	132 kV	STERLITE	22.01.2021
30	400 kV Tie Bay connecting 400kV Kohima-2 & Future at New Mariani (PG)	400 kV	POWERGRID	22.01.2021
31	132 kV Bus Coupler at PK Bari (Sterlite)	132 kV	STERLITE	22.01.2021
32	132 kV ICT-II Main Bay (105) at PK Bari (Sterlite)	132 kV	STERLITE	22.01.2021
33	400kV Main Bay (412) of 315 MVA ICT-II at PK Bari (Sterlite)	400 kV	STERLITE	22.01.2021
34	400 kV SM Nagar (ISTS)-2 & ICT-2 Tie Bay (411) at PK Bari (Sterlite)	400 kV	STERLITE	23.01.2021
35	400 kV Thoubal II Main Bay (421) at Imphal (PG)	400 kV	MSPCL	23.01.2021
36	400 kV Thoubal I Main Bay (418) at Imphal (PG)	400 kV	MSPCL	23.01.2021
37	132 kV PK Bari (TSECL) - PK Bari (ISTS) Line	132 kV	TSECL	29.01.2021
38	132 kV Ambassa (TSECL) - PK Bari (ISTS) Line	132 kV	TSECL	29.01.2021
39	132 kV PK Bari (ISTS) Bay (105) at PK Bari (TSECL) Substation	132 kV	TSECL	29.01.2021
40	400/220 kV, 500 MVA ICT 1 at New Mariani(PG) Substation	400/220	POWERGRID	03.02.2021
41	Kameng Unit 4	400	NEEPCO	12.02.2021
42	132 kV Badarpur(POWERGRID) – Karimganj line	132 kV	AEGCL	15.02.21
43	132 kV Kumarghat(POWERGRID) – Karimganj line	132 kV	AEGCL	15.02.21
44	132/33 Kv transformer at Karimganj	132/33 kV	AEGCL	15.02.21
45	132 kV AGTCCPP – PK Bari (TSECL) I & II	132 kV	STERLITE	19.02.2021
46	400 kV Silchar - Misa I & II	400 kV	STERLITE	25.02.2021
47	400kV Silchar-P.K.Bari-I	400	POWERGRID	06.03.2021
48	125MVAR BUS REACTOR-2 AT PK BARI (ISTS)	400	STERLITE	08.03.2021

49	125 MVAR BUS REACTOR-1 AT PK BARI (ISTS)	400	STERLITE	09.03.2021
50	400kV Silchar-P.K.Bari-II	400	POWERGRID	09.03.2021
51	125 MVAR Bus Reactor 1 at Mariani (PG)	400	POWERGRID	11.03.2021
52	Main Bay (406) of 400/132kV, 315 MVA ICT at Thoubal SS	400/132	MSPCL	12.03.2021
53	400kV Thoubal 1 & 1/2 Circuit Breaker Main Bus 1	400	MSPCL	12.03.2021
54	400 kV Imphal-Thoubal II	400	MSPCL	12.03.2021
55	400kV Thoubal 1 & 1/2 Circuit Breaker Main Bus 2	400	MSPCL	12.03.2021
56	400kV, 63MVAR Bus Reactor at thoubal SS	400	MSPCL	13.03.2021
57	400 kV Imphal-Thoubal I	400	MSPCL	13.03.2021
58	105 MVA spare ICT at Thoubal (B-ph)	400	MSPCL	15.03.2021
59	105 MVA Spare ICT at Surajmaninagar(ST)	400	STERLITE	16.03.2021
60	125 MVAR B/R -2 @ Surajmaninagar(ST)	400	STERLITE	26.03.2021
61	125 MVAR B/R -1 @ Surajmaninagar(ST)	400	STERLITE	29.03.2021