

ते प्रोफाइल / Quality of Power (Voltage and Frequency Profile) excerpt

र प्रोफाइल पीयू में / Voltage Profile in pu

माह / 'Month	मिसा 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
October'2021	1.038	0.990	0.00%	1.035	0.988	0.00%	1.038	0.998	0.00%
November'2021	1.038	0.990	0.00%	1.045	0.993	0.00%	1.045	1.005	0.00%
December'2021	1.043	0.985	0.00%	1.038	0.988	0.00%	1.048	1.005	0.00%

माह / 'Month	रंगानदी 400 केवी Ranganadi 400 kV			पालटाना 400 केवी Palatana 400 kV			सिलचर 400 केवी Silchar 400 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
October'2021	1.055	0.990	0.76%	1.030	0.998	0.00%	1.045	0.985	0.00%
November'2021	1.065	1.005	0.48%	1.030	1.000	0.00%	1.048	1.000	0.00%
December'2021	1.055	0.993	0.09%	1.030	0.998	0.00%	1.053	0.995	0.01%

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
October'2021	1.045	0.980	0.00%	1.033	1.000	0.00%	1.048	0.985	0.00%
November'2021	1.055	0.990	0.01%	1.028	1.003	0.00%	1.058	1.015	1.45%
December'2021	1.048	0.983	0.00%	1.038	0.983	0.00%	1.055	1.010	1.47%

माह / 'Month	बारनीहाट 400 केवी / Byrnihat 400 kV			एम्फल 400 केवी/ Imphal 400 kV			सुरजमानीनगर 400 केवी/ Surajmaninagar 400 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
October'2021	1.050	0.978	0.00%	1.048	0.980	0.00%	1.028	0.983	0.00%
November'2021	1.053	1.005	0.09%	1.050	0.988	0.00%	1.028	0.988	0.00%
December'2021	1.050	1.003	0.00%	1.050	0.983	0.00%	1.043	0.983	0.00%

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
October'2021	1.045	0.983	0.00%	1.045	0.988	0.000%	1.030	0.975	0.00%
November'2021	1.048	0.985	0.00%	1.045	0.988	0.00%	1.033	0.990	0.00%
December'2021	1.050	0.975	0.00%	1.043	0.980	0.00%	1.038	0.983	0.00%

माह / 'Month	मोकोक्चुंग 220 केवी/ Mokokchung 220 kV			एजिविपिपि 220 केवी / AGBPP 220 kV			मिसा 220 केवी / Misa 220 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
October'2021	1.055	0.968	0.00%	1.073	0.995	0.00%	1.032	0.973	0.00%
November'2021	1.077	0.914	0.00%	1.082	0.968	0.00%	1.073	0.959	0.00%
December'2021	1.041	0.977	0.00%	1.091	0.909	0.00%	1.032	0.977	0.00%

माह / 'Month	कहीलीपारा 132 केवी / Kahilipara 132 kV			निरजुली 132 केवी / Nirjuli 132 kV			एम्फल 132 केवी / Imphal 132 kV		
	Max	'Min	VDI	Max	Min	VDI	Max	'Min	VDI
October'2021	1.053	0.955	0.00%	1.038	0.962	0.00%	1.045	0.932	0.00%
November'2021	1.053	0.985	0.00%	1.045	0.977	0.00%	1.038	0.977	0.00%
December'2021	1.053	0.962	0.00%	1.038	0.962	0.00%	1.045	0.962	0.00%

माह / 'Month	आइजोल 132 केवी / Aizawl 132 kV		
	Max	'Min	VDI
October'2021	1.038	0.947	0.00%
November'2021	1.038	0.955	0.00%
December'2021	1.045	0.939	0.00%

ओं 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'2021	11.10	74.50	14.39	25.50
November'2021	8.02	74.09	17.89	25.91
December'2021	6.92	73.14	19.95	26.86

a) Peak Demand Met and Unrestricted Demand (MW)

MONTH	STATE	PK REQ	PK DMD MET	SHORTAGE %
October'2021	अरुणाचल प्रदेश / Arunachal Pradesh	162	140	13.6
	असम / Assam	2121	2121	0.0
	मणिपुर / Manipur	219	217	0.9
	मेघालय / Meghalaya	368	368	0.0
	मिजोरम / Mizoram	128	128	0.0
	नगालैंड / Nagaland	155	151	2.6
	त्रिपुरा / Tripura	327	327	0.0
	क्षेत्र / Region	3479	3451	0.8
November'2021	अरुणाचल प्रदेश / Arunachal Pradesh	170	142	16.1
	असम / Assam	1636	1636	0.0
	मणिपुर / Manipur	223	223	0.0
	मेघालय / Meghalaya	378	378	0.0
	मिजोरम / Mizoram	131	131	0.0
	नगालैंड / Nagaland	152	152	0.0
	त्रिपुरा / Tripura	253	253	0.0
	क्षेत्र / Region	2943	2916	0.9
December'2021	अरुणाचल प्रदेश / Arunachal Pradesh	146	146	0.0
	असम / Assam	1475	1475	0.0
	मणिपुर / Manipur	246	244	0.8
	मेघालय / Meghalaya	391	391	0.0
	मिजोरम / Mizoram	144	144	0.0
	नगालैंड / Nagaland	154	152	1.8
	त्रिपुरा / Tripura	227	227	0.0
	क्षेत्र / Region	2782	2777	0.2

b) Energy Met and Requirement (MU)

MONTH	STATE	Energy REQ	Energy MET	SHORTAGE %
October'2021	अरुणाचल प्रदेश / Arunachal Pradesh	85	85	0.0
	असम / Assam	1000	997	0.3
	मणिपुर / Manipur	82	82	0.3
	मेघालय / Meghalaya	180	179	0.2
	मिजोरम / Mizoram	54	54	0.1
	नगालैंड / Nagaland	75	75	0.0
	त्रिपुरा / Tripura	241	241	0.0
	क्षेत्र / Region	1717	1713	0.2
November'2021	अरुणाचल प्रदेश / Arunachal Pradesh	81	81	0.0
	असम / Assam	689	689	0.0
	मणिपुर / Manipur	85	82	3.5
	मेघालय / Meghalaya	196	196	0.0
	मिजोरम / Mizoram	54	54	0.0
	नगालैंड / Nagaland	66	66	0.0
	त्रिपुरा / Tripura	173	173	0.0
	क्षेत्र / Region	1344	1341	0.2
December'2021	अरुणाचल प्रदेश / Arunachal Pradesh	81	81	0.0
	असम / Assam	695	695	0.0
	मणिपुर / Manipur	101	101	0.1
	मेघालय / Meghalaya	223	223	0.0
	मिजोरम / Mizoram	61	61	0.0
	नगालैंड / Nagaland	70	70	0.0
	त्रिपुरा / Tripura	163	163	0.0
	क्षेत्र / Region	1396	1395	0.0

सामग्री विवरण / Water Level & Energy Content details

जलाशय / Reservoir	As on 31-Dec-20		As on 31-Dec-21	
	जलाशय स्तर / Water Level	एमयू सामग्री / MU Content	जलाशय स्तर / Water Level	एमयू सामग्री / MU Content
खांडोग / Khandong	715.8	17.0	715.4	20.0
कोपिली / Kopli	0.0	-	0.0	-
लोकतक / Loktak	769.2	-	767.3	37.0
बारापानी / Barapani	977.6	36.0	977.6	35.0
गुमती / Gunti	0.0	-	91.0	25.0
डोयांग / Doyang	323.3	34.0	317.2	16.0

साम वास्तविक ड्रा / Schedule vs Actual Drawl by States

Month	State	Schedule Drawl (MU)	Actual Drawl (MU)	Deviation (MU)
October'2021	अरुणाचल प्रदेश / Arunachal Pradesh	66.146	72.000	5.854
	असम / Assam	833.931	837.882	3.951
	मणिपुर / Manipur	80.963	82.005	1.042
	मेघालय / Meghalaya	79.308	78.575	-0.732
	मिजोरम / Mizoram	29.550	25.848	-3.702
	नागालैंड / Nagaland	62.972	63.415	0.442
	त्रिपुरा / Tripura	135.606	128.627	-6.979
November'2021	अरुणाचल प्रदेश / Arunachal Pradesh	64.346	68.112	3.766
	असम / Assam	561.339	564.341	3.001
	मणिपुर / Manipur	81.058	81.744	0.686
	मेघालय / Meghalaya	146.506	146.574	0.068
	मिजोरम / Mizoram	41.554	37.403	-4.151
	नागालैंड / Nagaland	61.649	60.043	-1.606
	त्रिपुरा / Tripura	61.721	49.292	-12.429
December'2021	अरुणाचल प्रदेश / Arunachal Pradesh	67.036	76.396	9.360
	असम / Assam	571.529	572.980	1.451
	मणिपुर / Manipur	99.712	101.071	1.359
	मेघालय / Meghalaya	178.422	181.832	3.410
	मिजोरम / Mizoram	47.575	43.716	-3.859
	नागालैंड / Nagaland	67.410	66.578	-0.832
	त्रिपुरा / Tripura	76.958	65.196	-11.762

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'2021	0.127	46.906	162.500	163.363	92.582	104.068
November'2021	0.138	22.780	102.578	102.774	67.928	74.139
December'2021	0.075	25.243	131.968	132.177	115.425	118.851

देशीय 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'2021	89.300	0	0.000	37.190	0.800	0
November'2021	65.000	0	0.000	14.230	0.800	0
December'2021	57.635	0	0.925	3.950	0.692	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 Generation	Load Loss(MW)	Category as per CEA Category as per CEA
		Date	Time				
1	NER	03-Oct-2021	07:27	<p>Along, Pasighat, Roing, Tezu & Namsai areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Daporijo-Along line.</p> <p>At 07:27 Hrs on 03.10.2021, 132 kV Daporijo-Along line tripped. Due to tripping of this element, Along, Pasighat, Roing, Tezu & 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.</p> <p>Power was extended to Along, Pasighat, Roing, Tezu & Namsai areas of Arunachal Pradesh Power System by charging 132 kV Daporijo-Along line at 13:07 Hrs on 03.10.2021.</p>	0	16	GD-I
2	NER	04-10-2021	13:02	<p>Tenga and Khupi areas of Arunachal Pradesh Power System and Dikshi HEP were connected with the rest of NER Grid through 132 kV Balipara-Tenga Line.</p> <p>At 13:02 Hrs on 04.10.2021, 132 kV Balipara-Tenga Line tripped. Due to tripping of this element, Tenga and Khupi areas of Arunachal Pradesh Power System and Dikshi HEP were separated from the rest of NER Grid and subsequently collapsed due to load-generation mismatch in these areas.</p> <p>Power was extended to Tenga and Khupi areas of Arunachal Pradesh Power System and Dikshi HEP by charging 132 kV Balipara-Tenga line at 13:22 Hrs on 04.10.2021.</p>	22	12	GD-I
3	NER	06-10-2021	11:39	<p>Monarchak Power Station and Rabindranagar area of Tripura Power System were connected with the rest of NER Grid through 132 kV Monarchak - Udaipur line. 132kV Monarchak-Rokhia line was under shutdown.</p> <p>At 11:39 Hrs on 06.10.2021, 132 kV Monarchak - Udaipur line tripped. Due to tripping of this element, Monarchak Power Station and Rabindranagar area of Tripura Power System were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.</p> <p>Power was extended to Monarchak Power Station and Rabindranagar area of Tripura Power System by charging 132 kV Monarchak - Udaipur line and 132 kV Monarchak - Rabindranagar line at 20:35 Hrs on 06.10.2021.</p>	65	6	GD-I
4	NER	08-10-2021	10:22	<p>Mokokchung (DoP, Nagaland) area of Nagaland Power System and Doyang HEP were connected to the rest of NER Grid through 132 kV Mokokchung(PG)-Mokokchung(DoP, Nagaland) D/C Lines, 132kV Dimapur(PG)-Doyang 2 & 132 kV Doyang - Sanis Lines. 132kV Dimapur(PG)-Doyang-1 was tripped at 04:06 Hrs on 08.06.21 and was declared faulty and also there was no generation of Doyang scheduled during the disturbance.</p> <p>At 10:22 Hrs on 08.10.2021, 132 kV Mokokchung(PG)-Mokokchung(DoP, Nagaland) D/C Lines, 132kV Dimapur(PG)-Doyang 2 & 132 kV Doyang - Sanis Lines tripped. Due to tripping of these elements, 132 kV Mokokchung (DoP, Nagaland) area of Nagaland Power System and Doyang HEP were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in this area..</p> <p>Power was extended to 132 kV Mokokchung (DoP, Nagaland) area of Nagaland Power System by charging 132 kV Mokokchung(PG) - Mokokchung(NL) 1 & 2 Line at 11:14 Hrs. of 08.10.2021 and to Doyanf HEP by charging 132 kV Dimapur(PG) - Doyang -2 at 10:42 Hrs. on 08.10.2021.</p>	20	30	GD-I
5	NER	08-10-2021	11:21	<p>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.</p> <p>At 11:21 Hrs on 08.10.2021, 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.</p> <p>Power was extended to Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System by charging 132 kV Along-Pasighat Line at 11:47 Hrs on 08.10.2021</p>	0	14	GD-I

6	NER	09-10-2021	11:35	<p>Jawaharnagar area of Assam Power System was connected with rest of NER grid through 220 kV Jawaharnagar - Samaguri Line. 220 kV Jawaharnagar - Sarusajai Line was under planned shutdown.</p> <p>At 11:35 Hrs on 09.10.21, 220 kV Jawaharnagar - Samaguri Line tripped. Due to tripping of this element, Jawaharnagar area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in these area.</p> <p>Power was extended to Jawaharnagar area of Assam Power System by charging 220 kV Jawaharnagar - Samaguri Line at 11:42 Hrs on 09.10.2021</p>	0	24	GD-I
7	NER	11-10-2021	17:09	<p>Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Daporijo-Along Line.</p> <p>At 17:09 Hrs on 11.10.2021, 132 kV Daporijo-Along Line tripped. Due to tripping of this element, Along, 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.</p> <p>Power was extended to Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System by charging 132 kV Daporijo-Along Line at 12:22 Hrs on 12.10.2021.</p>	0	23	GD-I
8	NER	13-10-2021	04:14	<p>Udaipur area of Tripura Power System was connected with the rest of NER grid through 132 kV Palatana - Udaipur line & 132 kV Monarchak-Udaipur line.</p> <p>At 04:14 Hrs on 13.10.21, 132 kV Palatana - Udaipur line & 132 kV Monarchak-Udaipur line tripped. Due to tripping of these elements, Udaipur area of Tripura Power System were separated from rest of NER Grid and subsequently collapsed due to no source in the area.</p> <p>Power was extended to Udaipur area of Tripura Power System by charging 132 kV Palatana - Udaipur at 13:11 hrs on 13.10.21</p>	0	12	GD-I
9	NER	13-10-2021	04:23	<p>Monarchak Power Station, Rabindranagar and Rokhia areas of Tripura Power System were connected with rest of NER grid through 132 kV Rokhia - Agartala 1 line, 132 kV Rokhia - Agartala 2 line and 132 kV Monarchak - Rokhia line. 132 kV Monarchak - Udaipur Line & 132 kV Palatana - Udaipur were under outage after tripping at 04:14 Hrs of 13.10.21.</p> <p>At 04:23 Hrs on 13.10.21, 132 kV Rokhia - Agartala 1 line, 132 kV Rokhia - Agartala 2 line and 132 kV Monarchak - Rokhia line tripped. Due to tripping of these elements, Monarchak Power Station, Rabindranagar and Rokhia areas of Tripura Power System were separated from rest of NER Grid and subsequently collapsed due load generation mismatch in these areas.</p> <p>Power was extended to Rokhia and Monarchak and subsequently to radially connected Rabindranagar areas of Tripura Power System by charging 132 kV Rokhia - Agartala 1 line at 04:49 Hrs and by charging Monarchak - Rohia Line at 05:05 Hrs on 13.10.21 respectively.</p>	97	18	GD-I
10	NER	13-10-2021	07:09	<p>Monarchak Power Station, Rabindranagar and Rokhia areas of Tripura Power System were connected with rest of NER grid through 132 kV Rokhia - Agartala 1 line, 132 kV Rokhia - Agartala 2 line and 132 kV Monarchak - Rokhia line. 132 kV Monarchak - Udaipur Line & 132 kV Palatana - Udaipur were under outage after tripping at 04:14 Hrs of 13.10.21.</p> <p>At 07:09 Hrs on 13.10.21, 132 kV Rokhia - Agartala 1 line, 132 kV Rokhia - Agartala 2 line, 132 kV Monarchak - Rokhia line tripped. Due to tripping of these elements, Monarchak Power Station, Rabindranagar and Rokhia areas of Tripura Power System were separated from rest of NER Grid and subsequently collapsed due load generation mismatch in these areas.</p> <p>Power was extended to Rokhia and Monarchak and subsequently to radially connected Rabindranagar areas of Tripura Power System by charging by charging 132 kV Rokhia - Agartala 1 line at 07:34 Hrs and by charging Monarchak - Rohia Line at 14:52 Hrs on 13.10.21 respectively</p>	19	25	GD-I

11	NER	14-Oct-2021	11:06	<p>Karbi Langpi Generating Station of Assam Power System was connected with the rest of NER Grid through 220 kV Sarusajai-Karbi Langpi 1 line and 220 kV Sarusajai-Karbi Langpi 2 line</p> <p>At 11:06 Hrs on 14.10.2021, 220 kV Sarusajai-Karbi Langpi 1 line and 220 kV Sarusajai-Karbi Langpi 2 line tripped. Due to tripping of these elements, Karbi Langpi Generating Station of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path.</p> <p>Power was extended to Karbi Langpi area of Assam Power System by charging 220 kV Sarusajai-Karbi Langpi 2 line at 11:17 Hrs on 14.10.21</p>	51	0	GD-I
12	NER	14-Oct-2021	12:28	<p>Karbi Langpi Generating Station of Assam Power System was connected with the rest of NER Grid through 220 kV Sarusajai-Karbi Langpi 1 line and 220 kV Sarusajai-Karbi Langpi 2 line</p> <p>At 12:28 Hrs on 14.10.2021, 220 kV Sarusajai-Karbi Langpi 1 line and 220 kV Sarusajai-Karbi Langpi 2 line tripped. Due to tripping of these elements, Karbi Langpi Generating Station of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path.</p> <p>Power was extended to Karbi Langpi area of Assam Power System by charging 220 kV Sarusajai-Karbi Langpi 1 line and 220 kV Sarusajai-Karbi Langpi 2 line at 12:40 Hrs on 17.10.21.</p>	51	0	GD-I
13	NER	15.10.2021	11:54	<p>Kohima area of Nagaland Power System & Karong area of Manipur Power System were connected with the rest of NER Grid through 132 kV Imphal (Yurembam)-Karong & 132 kV Dimapur(PG)-Kohima lines. 132 kV Kohima-Meluri line was under shutdown due to tower on the verge of collapse & 132 kV Kohima-Wokha was under planned shutdown.</p> <p>At 11:54 Hrs on 15.10.2021, 132 kV Imphal (Yurembam)-Karong line & 132 kV Dimapur(PG)-Kohima line tripped. Due to tripping of these elements, Kohima 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 available in these areas.</p> <p>Power was extended to Kohima area of Nagaland Power System & Karong area of Manipur Power System by charging 132 kV Imphal (Yurembam)-Karong and 132 kV Karong-Kohima at 12:02 Hrs on 15.10.21.</p>	0	21	GD-I
14	NER	15.10.2021	12:14	<p>Kohima area of Nagaland Power System & Karong area of Manipur Power System were connected with the rest of NER Grid through 132 kV Imphal (Yurembam)-Karong line & 132 kV Karong-Kohima line. 132 kV Kohima-Meluri line was under shutdown due to tower on the verge of collapse, 132 kV Kohima-Wokha was under planned shutdown, 132 kV Dimapur - Kohima line was under outage since 11:54 Hrs on 15.10.2021.</p> <p>At 12:14 Hrs on 15.10.2021, 132 kV Imphal (Yurembam)-Karong and 132 kV Karong-Kohima tripped. Due to tripping of these elements, Kohima 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 available in these areas.</p> <p>Power was extended to Karong area of Manipur Power System by charging 132 kV Imphal (Yurembam)-Karong at 12:18 hrs on 15.10.21. Power was extended to Kohima area of Nagaland Power System by charging 132 kV Dimapur - Kohima at 12:23 hrs on 15.10.21.</p>	0	20	GD-I
15	NER	16-10-2021	12:51	<p>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.</p> <p>At 12:51 Hrs on 16.10.2021, 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 the area.</p> <p>Power was extended to Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System by charging 132 kV Along - Pasighat Line at 13:20 Hrs on 16.10.2021.</p>	0	13	GD I

16	NER	16-10-2021	13:28	<p>Daporizo, Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Ziro - Daporijo Line.</p> <p>At 13:28 Hrs on 16.10.2021, 132 kV Ziro - Daporijo Line tripped. Due to tripping of this element, Daporizo, Along, 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.</p> <p>Power was extended to Daporizo, Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System by charging 132 kV Ziro - Daporijo Line at 17:58 Hrs on 16.10.2021.</p>	0	10	GD 1
17	NER	17.10.2021	05:05	<p>Karbi Langpi Generating Station of Assam Power System was connected with the rest of NER Grid through 220 kV Sarusajai-Karbi Langpi 1 line and 220 kV Sarusajai-Karbi Langpi 2 line</p> <p>At 05:05 Hrs on 17.10.2021, 220 kV Sarusajai-Karbi Langpi 1 line and 220 kV Sarusajai-Karbi Langpi 2 line tripped. Due to tripping of these elements, Karbi Langpi Generating Station of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path.</p> <p>Power was extended to Karbi Langpi area of Assam Power System by charging 220 kV Sarusajai-Karbi Langpi 1 line and 220 kV Sarusajai-Karbi Langpi 2 line at 05:17 & 05:20 Hrs on 17.10.21 respectively.</p>	0	85	GD-I
18	NER	20.10.2021	01:41	<p>Kohima and Wokha areas of Nagaland Power System & Karong area of Manipur Power System were connected with the rest of NER Grid through 132 kV Dimapur(PG)-Kohima (DoP, Nagaland) line, 132 kV Imphal (Yurembam)-Karong line & 132kV Sanis-Wokha line. 132 kV Kohima-Meluri line was under shutdown due to tower on the verge of collapse.</p> <p>At 01:41 Hrs on 20.10.2021, 132 kV Dimapur(PG)-Kohima (DoP, Nagaland) line, 132 kV Imphal (Yurembam)-Karong line & 132 kV Sanis-Wokha line tripped. Due to tripping of these elements, Kohima and Wokha areas of Nagaland Power System & Karong area of Manipur 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 Kohima and Wokha areas of Nagaland Power System by charging 132 kV Dimapur(PG) - Kohima line at 03:02 Hrs and 132kV Kohima - Wokha at 03:08 Hrs respectively and Power was extended to Karong area of Manipur Power System by charging 132 kV Yurembam(Imphal) - Karong line at 02:06 Hrs on 20.10.21</p>	0	13	GD-I
19	NER	21-Oct-2021	16:14	<p>Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal (Yurembam)-Karong & 132 kV Karong-Kohima lines.</p> <p>At 16:14 Hrs on 21.10.2021, 132 kV Imphal (Yurembam)-Karong & 132 kV Karong-Kohima lines tripped. Due to tripping of these elements, Karong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in the area.</p> <p>Power was extended to Karong area of Manipur Power System by charging 132 kV Imphal (Yurembam)-Karong at 16:18 hrs on 21.10.2021.</p>	0	16	GD-I
20	NER	28-Oct-2021	13:18	<p>Kolasib area of Mizoram Power System was connected with the rest of NER Grid through 132 kV Badarpur-Kolasib line & 132 kV Aizawl - Kolasib line.</p> <p>At 13:18 Hrs on 28.10.2021, 132 kV Badarpur-Kolasib line & 132 kV Aizawl - Kolasib lines tripped. Due to tripping of these elements, Kolasib area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.</p> <p>Power was extended to Kolasib area of Mizoram Power System by charging 132kV Badarpur - Kolasib line at 14:00 Hrs on 28.10.2021</p>	58	3	GD-I

21	NER	04-Nov-2021	17:01	<p>Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal (Yurembam)-Karong line. 132 kV Karong-Kohima line was under forced outage.</p> <p>At 17:01 Hrs on 04.11.2021, 132 kV Imphal (Yurembam)-Karong tripped. Due to tripping of this element, Karong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source available in the area.</p> <p>Power was extended to Karong area of Manipur Power System by charging 132 kV Imphal (Yurembam)-Karong line at 17:07 Hrs on 04.11.2021.</p>	0	18	GD-I
22	NER	06-Nov-2021	08:54	<p>Karong area of Manipur Power System & Kohima area of Nagaland Power System were connected with the rest of NER Grid through 132 kV Dimapur(PG)-Kohima line, 132 kV Wokha-Kohima line and 132 kV Yurembam(Imphal) - Karong line. 132 kV Kohima-Meluri line was hand tripped by Nagaland due to Tower on verge of collapse.</p> <p>At 08:54 Hrs on 06.11.2021, 132 kV Dimapur(PG)-Kohima line, 132 kV Wokha-Kohima line and 132 kV Yurembam(Imphal) - Karong line tripped. Due to tripping of these elements, Karong area of Manipur Power System & Kohima area of Nagaland 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 Karong area of Manipur Power System & Kohima area of Nagaland Power System by charging 132 kV Yurembam-Karong line at 09:07 Hrs on 06.11.2021 and 132 kV Dimapur - Kohima line at 09:59 Hrs on 06.11.2021 .</p>	0	27	GD-I
23	NER	07-11-2021	10:40	<p>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.</p> <p>At 10:40 Hrs on 07.11.2021,132 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.</p> <p>Power was extended to Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System by charging 132 kV Along - Pasighat line at 11:21 Hrs on 07.11.2021.</p>	0	11	GD-I
24	NER	08-11-2021	11:01	<p>Kohima area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Karong-Kohima line, 132 kV Kohima-Wokha line and 132 kV Dimapur(PG) - Kohima line. 132 kV Kohima-Meluri line was hand tripped by Nagaland due to Tower on verge of collapse.</p> <p>At 11:01 hrs on 08.11.2021,132 kV Karong-Kohima line, 132 kV Kohima-Wokha line and 132 kV Dimapur(PG) - Kohima line tripped . Due to tripping of these elements, Kohima area of Nagaland Power System was separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas.</p> <p>Power was extended to Kohima area of Nagaland Power System by charging 132 kV Karong-Kohima line at 11:50 Hrs on 08.11.2021.</p>	0	15	GD-I
25	NER	11-11-2021	15:09	<p>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.</p> <p>At 15:09 Hrs on 11.11.2021,132 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.</p> <p>Power was extended to Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System by charging 132 kV Along - Pasighat line at 15:25 Hrs on 11.11.2021.</p>	0	11	GD-I

26	NER	29-Nov-2021	12:22	<p>Churachandpur area of Manipur Power System was connected with the rest of NER Grid through 132 kV Ningthoukhong-Churachandpur D/C lines and 132 kV Kakching - Churachandpur line.</p> <p>At around 12:22 Hrs on 29.11.2021, 132 kV Ningthoukhong - Churachandpur D/C lines and and 132 kV Kakching - Churachandpur line 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 available in this area.</p> <p>Power was extended to Churachandpur area of Manipur Power System by charging 132 kV Ningthoukhong - Churachandpur D/C line at 12:59 Hrs on 29.11.2021</p>	0	24	GD-I
27	NER	02-Dec-2021	09:38:00	<p>Karong area of Manipur Power System is connected with rest of NER grid through 132 kV Yurembam-Karong and 132 kV Kohima-Karong lines.</p> <p>At 09:38 Hrs on 02.12.21, 132 kV Yurembam-Karong and 132 kV Kohima-Karong lines tripped. Due to tripping of these elements Karong 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 supply was extended to Karong area of Manipur Power System by charging 132 kV Yurembam-Karong at 10:10 Hrs. on 02.12.21</p>	0	13	GD-I

B. Grid Incidence

Sl No	Region	Outage		Event	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
		Date	Time				
1	NER	01-10-2021	13:22:00	Khandong unit 2 tripped at 13:22 hours on 01-10-21 due to overvoltage. Revision done from Block No. 63 on 01-10-21.	25	0	GI-I
2	NER	03-10-2021	01:17	Kameng unit 2 tripped at 01:17 hours on 03-10-21 due to excitation card malfunction. Revision done from Block No. 13 on 03-10-21.	150	0	GI-II
3	NER	06-10-2021	20:51	Palatana ST-I & Palatana ST-II tripped at 20:51 hours on 06-10-21 due to opening of GT exhaust bleed valve. Revision done from Block No. 91 on 06-10-21.	218	0	GI-II
4	NER	13-10-2021	04:14	AGTCCPP Unit 2 tripped at 04:14 hours on 13-10-21 due to operation of under voltage relays. Revision done from Block No. 25 on 13-10-21.	34	0	GI-I
5	NER	16-10-2021	12:13:00	AGBPP Unit 2 tripped at 14:00 hours on 16-10-21 due to high vibration in turbine end (Bearing No.1). Revision done from Block No. 57 on 16-10-21.	29	0	GI-II
6	NER	17-10-2021	11:53:00	Khandong Unit 1 tripped at 11:53 hours on 17-10-21 due to very high thrust bearing temperature. Revision done from Block No. 55 on 17-10-21.	19.5	0	GI-I
7	NER	18-10-2021	15:53	AGBPP Unit 6 tripped at 15:53 hours on 18-10-21 due to IGB control trouble. Revision done from Block No. 71 on 18-10-21.	37	0	GI-II
8	NER	20-10-2021	18:24	Loktak Unit 1 tripped at 18:24 Hour on 20-10-21 due to over current in unit auxiliary transformer. Revision done from Block No. 83 on 20-10-21.	35	0	GI-I
9	NER	21-10-2021	11:16	Palatana Module 1 & 2 tripped at 11:16 hours on 21-10-21 due to gas fuel fault. Revision done from Block No. 53 on 21-10-21.	635	0	GI-II
10	NER	22-10-2021	08:16:00	Palatana STG-1 tripped at 08:16 hours on 22-10-21 due to HP top bottom facing high temperature high. Revision done from Block No. 41 on 22-10-21.	218	0	GI-II
11	NER	29-10-2021	19:47:00	Kopili Stg II Unit 1 tripped at 19:47 hours on 29-10-21 due to governor problem. Revision done from Block No. 89 on 29-10-21.	22	0	GI-I
12	NER	02-11-2021	20:34	Palatana GTG-1 & Palatana STG-1 tripped at 20:34 Hrs on 02-11-21 due to Flame Failure. Revision done from Block No. 91 on 02-11-21.	202	0	GI-II
13	NER	03-11-2021	12:23	AGBPP Unit 9 tripped at 12:23 Hrs on 03-11-21 due to Control System Failure. Revision done from Block No. 57 on 03-11-21.	10	0	GI-II
14	NER	03-11-2021	14:19:00	Kopili St 2 Unit I tripped at 14:19 hours on 03-11-21 due to Excitation Failure. Revision done from Block No. 67 on 03-11-21.	21	0	GI-I
15	NER	05-11-2021	08:53:00	Palatana GTG-1 & Palatana STG-1 tripped at 08:53 Hrs on 05-11-21 due to Low Drum Level. Revision done from Block No. 43 on 05-11-21.	273	0	GI-II
16	NER	10-11-2021	12:45:00	Kopili St 2 Unit I tripped at 12:45 hours on 10-11-21 due to Governor problem. Revision done from Block No. 59 on 10-11-21.	21	0	GI-I

17	NER	11-11-2021	18:57:00	Khandong Unit 1 tripped at 18:57 hours on 11-11-21 due to Non-Electrical Lockout. Revision done from Block No. 81 on 11-11-21.	24	0	GI-I
18	NER	11-11-2021	20:12:00	BgTPP Unit 2 tripped at 20:12 hours on 11-11-21 due to high pressure furnance. Revision done from Block No. 89 on 11-11-21.	228	0	GI-II
19	NER	15-11-2021	23:23:00	Kameng Unit 3 tripped at 23:23 hours on 15-11-21 due to LGB high temperature. Revision done from Block No.4 on 16-11-21.	107	0	GI-II
20	NER	18-11-2021	11:29:00	AGBPP Unit 2 & 4 tripped at 11:29 hours on 18-11-21 due to tripping of Gas Booster compressor 1. Revision done from Block No.53 on 18-11-21.	58	0	GI-II
21	NER	20-11-2021	02:19:00	AGBPP Unit 6 tripped at 02:19 hours on 20-11-21 due to Excitation problem. Revision done from Block No.17 on 20-11-21.	25	0	GI-II
22	NER	07-12-2021	20:11:00	BGTPP Unit 3 tripped at 20:11 hours on 07.12.21 due to Class-A protection operation. Revision done from Block No. 87 on 07.12.21.	146	0	GI-II
23	NER	30-12-2021	10:33:00	AGBPP GTG 1, 2, 3, 5 & 6 tripped at 10:33 hours on 30.12.21 due to Tripping of GBC, AGBPP STG 1 & 3 tripped at 10:35 hours on 30.12.21 due to Non-availability of GTG 1 &3. Revision done from Block No. 49 on 30.12.21.	191	3	GI-II

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:-

a	400KV-BALIPARA-BONGAIGAON-3
b	400KV-BALIPARA-BONGAIGAON-4

8. Lines/ICTs opened to control overloading :

a	132 kV Kamalpur – Ambassa line
b	132kV Nirjuli-Gohpur Line
c	132 kV Umtru – Kahlipara D/C and 132 kV Umtru Sarusajai D/C
d	400/132 kV, 2x315 MVA ICT I or II at Surajmaninagar (Sterlite)
e	400/132 kV, 2x315 MVA ICT I or II at PK Bari(Sterlite)

9. Transmission lines under long outage :

a	132 kV Panchgram-Srikona line (out since 14.01.2019)
b	132kV Jiribam – Rengpang
c	132 kV Mariani – Mokokchung (out since July'2008)
d	400 kV Thouabl – Imphal I

10. Transformers/ICTs/Reactor under long outage :

a	420 kV, 63 MVAR Bus Reactor at Byrnihat
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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)
c	220 kV Misa- Samaguri DC
d	220 kV Balipara-Sonabil line
e	220 kV Azara-Sarusajai DC

12. Transformation Constraints :

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

a	220/132 kV, 2 x100 MVA ICT at Rangia
b	220/132 kV, 2 x160 MVA ICT at BTPS(AS)

13.'N-1 criterion not satisfied for the following Transformers :

a	220/132 kV, 2 x100 MVA ICT at Rangia
b	220/132 kV, 2 x160 MVA ICT at BTPS(AS)

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	Agbbp - UNIT 4	4	33.50	NEEPCO	24/Dec/2021	20:56	28/Dec/2021	16:40	Tripping of Gas Booster
2	BGTTP - UNIT 3	3	250.0	NTPC	07/Dec/2021	20:11	09/Dec/2021	05:42	Tripped on Class-A protection operation
3	BGTTP - UNIT 1	1	250.0	NTPC	30/Nov/2021	21:32	01/Dec/2021	02:20	Tripped due to flame failure
4	Agbbp - UNIT 6	6	33.50	NEEPCO	20/Nov/2021	02:19	25/Nov/2021	13:48	Excitation problem
5	Kopili-2 - UNIT 1	1	25.0	NEEPCO	10/Nov/2021	12:45	15/Nov/2021	19:23	Governor Problem
6	Kopili-2 - UNIT 1	1	25.0	NEEPCO	29/Oct/2021	19:47	01/Nov/2021	22:21	Governor Problem
7	Agbbp - UNIT 6	6	33.50	NEEPCO	18/Oct/2021	15:53	15/Nov/2021	15:25	IGB Control Trouble
8	Agbbp - UNIT 2	2	33.50	NEEPCO	16/Oct/2021	12:13	18/Oct/2021	17:07	High Vibration in Turbine end (Bearing No.1)
9	Palatana - UNIT 4	4	130.91	OTPCL	06/Oct/2021	20:51	08/Oct/2021	00:04	Due to opening of GT exhaust bleed valve
10	Agbbp - UNIT 6	6	33.50	NEEPCO	02/Oct/2021	04:23	16/Oct/2021	14:00	Inlet guide vane control trouble trip
11	Agbbp - UNIT 4	4	33.50	NEEPCO	29/Sep/2021	12:44	02/Oct/2021	05:17	High Vibration

15. Generation Capacity Addition :

During Oct'21-Dec'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
NIL					

16. Transmission/Transformation/Reactive Capacity Addition :

During Oct-Dec'21

Sl. No.	तत्व का नाम / Name of Element	केवी में वोल्टेज स्तर / Voltage level in kV	उपयोगिता / Utility	चार्ज करने की तारीख / Charging date
1	132/33 kV, 31.5 MVA ICT 1 at Ghoramari SS	132/33	AEGCL	09.10.2021
2	132/33 kV SANKARDEVNAGAR GSS	132/33	AEGCL	20.11.2021
3	132 kV Agia - Nangalbibra II Line	132	MePTCL	25.11.2021
4	132 kV Nangalbibra 2 Bay at Agia Substation	132	MePTCL	25.11.2021
5	132 kV Agia 2 Bay at Nangalbibra Substation	132	MePTCL	25.11.2021
6	132/33 kV, 12.5 MVA ICT 1 at Sihhmui SS	132/33	P&ED, Mizoram	01.12.2021
7	132 kV Main Bus at Sihhmui SS	132	P&ED, Mizoram	01.12.2021
8	132/33 kV, 25 MVA ICT 1 at Wokha	132/33	Department of Power Nagaland	20.12.2021
9	132kV IOCL-NARENGI	132	IOCL	31.12.2021