							Details of	of Grid Event	s during the 1	Month of Novembe	er 2020 in N	orthern Region	
Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration	load duri	ration / loss of ng the Grid vent	load w.r.t A	Load in the id during the	Antecedent Genera the Regional		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD-1	J & K	03-Nov-2020 09:09	03-Nov-2020 11:52	2:43	0	850	0.000	1.867	29221	45524	220 KV Wagoora(PG)-Ziankote(JK) (PDD JK) Ckt-1 & Ckt-2 tripped due to the sever fualt on 220kV Zainkote-Alusteng line got reflected on 220 kV zainkote. As per PMU, B-N fault with delayed clearance of 960ms is observed. Fault current was 1 1.46kA and fault distance was 69.02km from Wagoora(PG) end. As per SCADA, load 2 loss of approx. 850MW is observed. In antecedent condition, 220 KV Wagoora(PG)- Ziankote(JK) (PDD JK) Ckt-1 & Ckt-2 carrying 159MW & 134MW respectively.	
2	GI-2	UTTAR PRADESH	03-Nov-2020 11:13	03-Nov-2020 14:08	2:55	0	0	0.000	0.000	28958	44748	Ckt-1 also tripped. As per PMU, B-N fault is observed. Fault current was 2.319kA. In 2 antecedent condition, 400/220 kV 315 MVA ICT 1, ICT 2 & 400kV Paricha-ORAI Ckt- 1 carrying 7MW each.	1) 400/220 kV 315 MVA ICT 1 at Paricha(UPUN) 2) 400/220 kV 315 MVA ICT 2 at Paricha(UPUN)
3	GD-1	RAJASTHAN	03-Nov-2020 12:10	03-Nov-2020 12:56	0:46	0	630	0.000	1.430	28798	44054		1) 400/220 kV 315 MVA ICT 1 at Hindaun(RS) 2) 400/220 kV 315 MVA ICT 2 at Hindaun(RS)
4	GD-1	J & K	03-Nov-2020 13:26	03-Nov-2020 15:52	2:26	0	400	0.000	0.986	27150	40566		1) 220 KV Wagoora(PG)-Ziankote(JK) (PDD JK) Ckt-2 2) 220 KV Wagoora(PG)-Ziankote(JK) (PDD JK) Ckt-1
5	GD-1	UTTAR PRADESH	03-Nov-2020 20:04	03-Nov-2020 21:33	1:29	660	0	2.481	0.000	26598	38408		1) 765 KV Agra Fatehbad(UP)-Lalitpur(LPG) (UP) Ckt-2 2) 660 MW Lalitpur TPS - UNIT 3
6	GD-1	RAJASTHAN	07-Nov-2020 15:08	07-Nov-2020 19:40	4:32	0	60	0.000	0.153	25438	39140	LBB operation. At the same time, 220kV BUS 1 & 400/220 kV S00 MVA (LT 1 at 2 Neemrana(PG) also tripped due to bus bar protection operation. As per PMU, no 3 Full is characterized and anticode togolicity 400/230 kV 500 MVA (LT 1 320 kV/	l) 220 KV Neemrana(PG)-Kushkhera(RS) (RS) Ckt-1 2) 220KV Bus 1 at Neemrana(PG) 8) 400/220 kV 500 MVA ICT 1 at Neemrana(PG) 1) 220 KV Neemrana(PG)-Bahror(RS) (RS) Ckt-1
7	GI-2	UTTAR PRADESH	11-Nov-2020 01:07	11-Nov-2020 02:51	1:44	0	0	0.000	0.000	21727	32101		1) 400 KV Rewa Road-Panki (UP) Ckt-1 2) 400 KV Obra_B-Rewa Road (UP) Ckt-1
8	GD-1	HIMACHAL PRADESH	11-Nov-2020 07:06	11-Nov-2020 09:06	2:00	0	50	0.000	0.126	28308	39744	220 KV Dehar(BB)-Kangoo(HP) (HP) Ckt-1, 220 KV Dehar-Ganguwal (BB) Ckt-1 & Ckt 2 tripped due to operation of 220kV bus-bar protection at Dehar(BBMB). As per 1 PMU, no fault is observed. In antecedent condition, 220 KV Dehar(BB)-Kangoo(HP) (HP) Ckt-1, 220 KV Dehar-Ganguwal (BB) Ckt-1 & Ckt-2 carrying 64MW, 55MW & 3 55MW respectively.	2) 220 KV Dehar-Ganguwal (BB) Ckt-2
9	GD-1	UTTRAKHAND	15-Nov-2020 12:03	15-Nov-2020 15:48	3:45	53	0	0.205	0.000	25900	35982		1) 220 KV Tanakpur(NH)-Sitarganj(PG) (PG) Ckt-1 2) 220 KV Tanakpur(NH)-CBGanj(UP) (PG) Ckt-1
10	GI-2	PUNJAB	15-Nov-2020 15:00	15-Nov-2020 16:23	1:23	0	0	0.000	0.000	21659	29476	Moga(Po) & 400xV bus 2 at Moga(Po) tripped due to LBB operation at MUGA end. 400 KV Raipura-Dhuri (PS) Ckt-2 & 400 KV Raipura TPS(PS)-Raipura(PS) (PS) Ckt-2 also tripped at same time due to over voltage. As per PMU, no fault is observed. In antecedent condition, 400 KV Nakodar(PSG)-Moga(PG) (PS) Ckt-1, 400 KV Exhangur Mang, (PG) Ckt-1, 752 (A00 kV) CBO MUA (T2) at More(PG) (A00 kV)	1) 765/400 kV 1500 MVA ICT 2 at Moga(PG) 2) 400 KV Rajpura-Dhuri (PS) Ckt-2 3) 400 KV Nakodar(PSG)-Moga(PG) (PS) Ckt-1 4) 400K V Bus 2 at Moga(PG) 5) 400 KV Kishenpur-Moga (PG) Ckt-1 5) 400 KV Rajpura TPS(PSG)-Rajpura(PS) (PS) Ckt-2

	Details of Grid Events during the Month of November 2020 in Northern Region % Loss of generation / loss of														
Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped		
	(GI 1or 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)				
11	GI-2	PUNJAB	15-Nov-2020 16:01	15-Nov-2020 17:18	1:17	0	0	0.000	0.000	20005	27983	because it was on same dia and Bus-2 at Moga was already under tripping due to 2) 400 KV	Moga-Hissar (PG) Ckt-3 Moga-Jalandhar (PG) Ckt-2 Kishenpur-Moga (PG) Ckt-2		
12	GI-2	UTTAR PRADESH	15-Nov-2020 20:03	15-Nov-2020 23:55	3:52	0	0	0.000	0.000	24766	30383		0 kV 315 MVA ICT 1 at Mathura(UP) 0 kV 315 MVA ICT 2 at Mathura(UP)		
13	GD-1	UTTAR PRADESH	16-Nov-2020 04:45	16-Nov-2020 08:01	3:16	71	0	0.461	0.000	15408	21521	400 KV Alaknanda GVK(UPC)-Vishnuprayag(JP) (UP) Ckt-1 & 400 KV Alaknanda GVK(UPC)-Srinagar(UK) (UK) Ckt-1 tripped due to over voltage. At the same time Alaknanda(UP) Unit-1 also tripped. As per PMU, no fault is observed. In antecedent Ckt-1 condition, 400 KV Alaknanda GVK(UPC)-Vishnuprayag(JP) (UP) Ckt-1, 400 KV Alaknanda GVK(UPC)-Srinagar(UK) (UK) Ckt-1 & Alaknanda GVK(UPC)Unit-1 carrying 19MW, 10MW & 71MW respectively.			
14	GI-2	HIMACHAL PRADESH	19-Nov-2020 13:47	19-Nov-2020 15:13	1:26	0	0	0.000	0.000	24121	37369	220 KV AD hydro(AD)-Phozal(HP) & 220 KV AD hydro(AD)-Nallagarh(PG) tripped due to over voltage. As per PMUL V-B fault is observed in aptecedent condition 2) 220 KV	AD hydro(AD)-Phozal(HP) (ADHPL) Ckt-1 Phozal(HP)-Nallagarh(PG) (ADHPL) Ckt-1 AD hydro(AD)-Nallagarh(PG) (ADHPL) Ckt-1		
15	GI-2	HARYANA	21-Nov-2020 13:09	21-Nov-2020 14:30	1:21	0	0	0.000	0.000	24400	38175	AC Bus voltage soared up to the level of around 434kV. At this voltage 10VC 2) 800 KV	HVDC Kurukshetra(PG) Pole-03 HVDC Kurukshetra(PG) Pole-4 HVDC Kurukshetra(PG) Pole-2		
16	GI-2	RAJASTHAN	23-Nov-2020 09:10	23-Nov-2020 10:24	1:14	0	0	0.000	0.000	27910	43922		0 kV 315 MVA ICT 2 at Bhilwara(RS) Bhilwara(RS)-Kota(PG) (RS) Ckt-1		
17	GI-2	HIMACHAL PRADESH	24-Nov-2020 17:22	24-Nov-2020 18:31	1:09	0	0	0	0	28060	39989	400KV Bus 1 at Parbati Pooling Banala(PG), 400 KV Amritsar-Parbati Pooling Banala (PG) Ckt-1, 400/220 kV 315 MVA ICT 1 at Parbati Pooling Banala(PG) & 400kV (1) 400 KV Nallagarh(PG)-Parbati Pooling Banala(PG) (PKTCL) Ckt-1 all tripped due to 400kV (PKTCL) Ck Bus -1 Bus Bar protection operated due to flash over in Bus Isolator at Banala. As 2) 400/220 per PMU, Y-N fault is observed. In antecedent condition, 400 KV Amritsar-Parbati Banala(PG) Pooling Banala (PG) Ckt-1, 400/220 kV 315 MVA ICT 1 at Parbati Pooling Banala(PG) 3) 400 KV 4 000kV Nallagarh(PG)-Parbati Pooling Banala(PG) (PKTCL) Ckt-1 carrying 112MW, 41MW & 166MW respectively.	kt-1 10 kV 315 MVA ICT 1 at Parbati Pooling 5) Amritsar-Parbati Pooling Banala (PG) Ckt-1		

							Details of G	rid Events du	ring the Mor	1 nth of November 20	020 in Weste	ern Region
Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration	load duri E	ration / loss of ng the Grid vent	% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions) Elements Tripped
	(GI 1or 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)	
1	GI-1	WR	02-Nov-20 16:23	02-Nov-20 16:51	0:28	-	-	-	-	62912	52436	At 1623hrs on 2nd Nov 2020, Y phase jumper of 220 kV Asoj- Jhambuva 2 broke at 400/220 kV Asoj S/s, fell down and created Y phase fault in 220 kV Bus 2. 220 kV Bus coupler tripped on over current protection operation and al the 220 kV lines connected tripped from remote end on Zone 2 distance protection operation. 400/220 kV Asoj ICTS 1,2&3 and 220/132 kV Asoj ICTS 4,220 kV Asoj-Wanakbori 2,3A &4 tripped on backup protection operation. As reported by GETCO, Bus bar protection failed to operate due to topological error(wrong isolator status of 220/66kV ICT 1) in Zone 2 of Busbar protection.
2	GI-2	WR	06-Nov-20 4:57	06-Nov-20 7:39	2:42	-	-	-	-	55608	43248	At 0457hrs on 6th Nov 2020, 765 kV side B phase CT of 765/400 kV ICT 1 failed at 765/400 kV Indore S/s, and created B-phase fault. 765 kV Bus 2 tripped on bus bar protection operation and 765/400 kV Indore ICT 1 tripped on differential protection operation.
3	GI-2	WR	10-Nov-20 15:46	10-Nov-20 16:53	1:07	-	-	-	-	65329	53846	At 400/220 kV Karad 5/s, 400kV Lonikhand line was under outage for changing CT ratio. At 15:46 hrs, on 10th Nov 2020 while shorting B phase CT (core 1) secondary terminal as per general practice (before changing the CT Tripping of ratio) , reverse zone distance protection of Karad-Lonikhand line operated 1.400 kV Karad Bus 1 and at the same time all the elements connected to 400 kV Karad Bus 1 also tripped on busbar protection operation. As reported by MSETCL, the control 3.400 kV Karad-Kolhapur-1 cable from Lonikhand bay to control room is 0.75km long and the maloperation was due to induced voltage in the control cable causing induced current in the secondary circuit.
4	GI-1	WR	14-Nov-20 21:39	14-Nov-20 22:01	0:22	-	290	-	0.804%	46868	36078	At 2139hrs on 14th Nov 2020, 132 kV side R ph CT of 220/132 kV ICT-2 Tripping of blasted at 220/132kV Satna 5/s and 220/132 kV ICTs 1,2&3 tripped. At the 1.220 kV Satna(MP)-Satna(PG) 3 same time, 220 kV Satna(PG) 3 line tripped at Satna(MP) end only. 2.220/132 kV Satna ICTs 1,2&3
5	GI-1	WR	15-Nov-20 2:50	15-Nov-20 3:42	0:52	258	-	0.603%	-	42778	35040	At 0250hrs on 15th Nov 2020, At 220 kV Khaparkheda Power station, 220 kV side R phase bushing of GT-3 blasted. This resulted in tripping of GT-3 on differential protection operation and 220 kV Bus 1 on LBB operation of GT-3 bay. As reported by MSETCL, LBB of GT-3 bay operated instantaneousl eventhough the fault was cleared by differential protection operation. 5. Khaparkheda Units 1,3&4
6	GI-2	WR	21-Nov-20 13:10	21-Nov-20 13:59	0:49	-	-	-	-	61444	51362	At 13:10 Hrs, on 21st Nov 2020,800 kV Champa-Kurukshetra Poles 3&4 blocked on Category A protection operation due to 'filter switch-in inhibit' at Tripping of Kurukshetra end. At the same time Pole 2 blocked on Category B protection operation initiated by Pole 4 as the Neutral Bus Switch (NBS) failed to open at Champa end

							De	etails of Grid	l Events duri	ng the Month of	November 2	020 in Eastern Region	
Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid	Time and Date of Restoration	Duration	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1 or 2/ GD-1 to GD-5)		Event	Restoration		Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GI-2	Alipurduar	07-11-2020 11:04	07-11-2020 13:49	02:45	240	0	1.15%	0.00%	20786		On 07-11-2020, 400 kV Alipurduar Jigmelling D/C tripped on R and Y phase fault resulting tripping of both running units at Mangdechu due to loss of evacuation path. Fault location was around 200 km from Alipurduar.	400 kV Alipurduar - Jigmelling D/C
2	GD-1	Hatia	13-11-2020 14:36	13-11-2020 15:03	00:27	54	240	0.27%	1.80%	19673	13336	220/132 kV 150 MVA ICT – 3 Hatia also tripped at same time. 220/132 kV ICT – 1 & 2 and 220 kV Ranchi – Hatia	220 kV Ranchi – Hatia 1 & 2 220 kV Patratu – Hatia D/C 220/132 kV 150 MVA ICT – 3
3	GD-1	Dehri	24-11-2020 18:28	24-11-2020 19:11	00:43	0	154	0.00%	0.90%	23819		220 kV Gaya-Dehri D/C was under shutdown prior to the event. On 24th November 2020 at 18:28 hrs, tripping of 220 kV Sasaram – Dehri S/C resulted in total power failure at Dehri, Bikramganj, Banjari, Kudra, Kerpa, Tiro areas.	220 kV Sasaram Dehri S/C

												er 2020, in Southern Region	
	Category of Grid Event		Time and Date of	Time and Date of			ation / loss of ne Grid Event	% Loss of gen load w.r.t		Antecedent Generati Regional (Name of Elements
No.	(GI 1or 2/ GD-1 to GD-5)	Affected Area	occurrence of Grid Event	Restoration	Duration	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)	Brief details of the event (pre fault and post fault system conditions)	(Tripped/Manually opened)
1	GD-1	ANDHRA PRADESH	07-Nov-20 16:06	07-Nov-20 16:18	12 min	0	153	0	0.4	34403	39269	Complete Outage of 220kV VSS and 220kV Parawada SS of APTRANSCO: Triggering incident was failure of R-Ph LA of 220kV VSS-Gajuwaka_AP line. Due to non tripping of line at 220kV vSS end, fault was cleared by tripping of all connected elements at remote and. This resulted in complete loss of supply at 220kV VSS. Since 220kV Parawada was radially fed from 220kV VSS, there was complete loss of suply at 220kV Parawada SS.	 N. 220kV Gangavaram V. 220kV Kakinada V. 220kV Pendurthy line-1 and 2 vii. 220kV MRS line-1 and 2
2	GD-1	TAMIL NADU	12-Nov-20 12:03	12-Nov-20 12:58	56 min	42	0	0.1	0	37004	42045	Complete Outage of 230kV Betam Wind Energy: Triggering incident was tripping of 230kV Betam TTGS Line on operation of OV s1-1 protection at Betam end. Due to tripping of single connected line, there was complete loss of supply at 230kV Betam Wind Energy resulting in wind generation loss of 42NW	i. 230kV/33kV Transformer-1 and 2 ii. 230kV TTGS line
3	GD-1	TAMIL NADU	13-Nov-20 3:09	13-Nov-20 3:40	31 min	210	0	0.9	0	24241	29972	Complete Outage of 230kV MAPS of NPCIL: As per the information received, all connected lines got tripped at 230kV MAPS due to BBP operation resulting in complete loss of suppy. Details are awaited.	i. U#2 at MAPS ii. 230kV Echur line iii. 230kV SP Koil line-1 and 2 iv. 230kV Acharapakkam line
4	GD-1	TAMIL NADU	16-Nov-20 13:25	16-Nov-20 14:16	51 min	0	0	0.0	0	30689	35308	Complete Outage of 230kV Checkanurani SS of TANTRANSCO: Triggering incident was failure of R phase CB limb of 230kV Checkanurani Nallamanayakkanpatti line at Checkanurani end. LBB of 230kV Checkanurani Nallamanayakkanpatti line operated at 230kV Checkanurani end resulting in the operation of Bus-1 BBP. Due to this, all connected elements at 230kV Checkanurani SS got tripped since all the elements were connected only to Bus-1 during antecedent conditions.	
5	GD-1	KERALA	17-Nov-20 12:41	17-Nov-20 13:44	1 hr 3 min	0	390	0.0	1.1	33499	35840	Complete Outage of 220W Kalamasherry SS of KSE: During antecedent conditions, due to outage of 220W Kalamasherry Idukki line-1 and 2, 220W Kalamasherry SS was radially fed from 400KV/220W Kochi_PG SS and flows in 220W Kochi_PG Kalamasherry line-1 and 2 were around 195MW each respectively. As per the report submitted, triggering incident was b phase to Earth fault in 220W Kochi_PG Kalamasherry line-1. After the tripping of 220W Kochi_PG Kalamasherry line-1, 220W Kochi_PG Kalamasherry line-2 got veroloade 220W Kochi_PG Kalamasherry line-2 got veroloade 220W Kochi_PG Kalamasherry line-2 got tripped on operation of DEF protection as per IDMT curve at Kochi_PG end and was holding at Kalamasherry end.	i. 220kV Kochi Kalamasherry line-1 and 2 ii. 220kV/110kV Transformer-1, 2, 3 and 4
6	GD-1	TAMIL NADU	25-Nov-20 22:53	26-Nov-20 3:22	4 hr 30 min	0	70	0.0	0.2	23960	29443	Complete Outage of 230kV BHAVINI: As per the information received, all connected lines got tripped only at Bhavini end due to Over voltage resulting in complete loss of suppy. Details are awaited.	i, 230kV Kancheepuram line-1 and 2 ii. 230kV Arani line-1 and 2 iii. 230kV Siruseri line-1 and 2 iv. Station Transformer -1 and 2
7	GI-1	ANDHRA PRADESH	02-Nov-20 22:27	02-Nov-20 23:26	59 min	0	128	0.0	0.3	30583	37216	Tripping of 220kV Bus-1 and Bus-2 at Nellore SS of APTRANSCO: As per the information received, 220kV Bus-1 and Bus 2 BBP operated resulting in the tripping of all connected elements at 220kV Nellore SS. 400kV/220kV ICT#1, 2 and 3 at Nellore also got tripped during this event. Details are awaited.	i. 400kV/220kV ICT#1 , 2 and 3 at Nellore ii. 220kV Manubolu line-1, 2 and 3
8	GI-1	TELANGANA	10-Nov-20 1:13	10-Nov-20 17:28	16 hr 15 min	0	0	0.0	0.0	23781	30069	Tripping of Bus-1 at 220kV Narsapur SS of TSTRANSCO: Triggering incident was failure of Y-Phase Suspension Insulator string on LV side of Narsapur ICT-1 near 220kV Bus-1. Bus-1 BBP operated resulting in the tripping of all the elements connected to Bus-1 at 220kV Narsapur SS.	
9	GI-1	ANDHRA PRADESH	16-Nov-20 20:26	16-Nov-20 21:13	47 min	0	0	0.0	0.0	25794	33181	Tripping of 220kV Bus-2 at Srisailam Right Bank of APGENCO: Triggering incident was failure of CB of U#5 at Srisailam RB. LBB operated resulting in the tripping of all the elements connected to Bus-2 at Srisailam RB. There was no generation at Srisailam LB during antecedent conditions.	L U#5 at Srisaliam RB ii. 220kV Dindi line iii. 220kV Mayajulapaali line iv. 220kV Mydukur line v. 220kV Podili line vi. 220kV Tapali line-2
10	GI-1	TAMIL NADU	17-Nov-20 0:01	17-Nov-20 0:52	51 min	0	0	0.0	0.0	22756	28506	Tripping of Bus-1 at 230kV Trichy TN SS of TANTRANSCO: Triggering incident was BN fault in 230kV Trichy TN Alandur line-1. Due to non opening of breaker at 230kV Trichy TN end, LBB operated resulting in the tripping of all the elements connected to Bus-1 at 230kV Trichy TN S.	i. 230kV/110kV Transformer-1, 2 and 3
11	GI-1	TELANGANA	26-Nov-20 7:57	26-Nov-20 9:55	1 hr 58 min	0	0	0.0	0.0	26925	33478	Tripping of 220kV Bus-2 at Shankarapalli SS of TSTRANSCO: Triggering incident was failure of R phase CB of 220kV Shanakarapalli Parigi line-1 at Shanakarapalli end. LBB operated resulting in the tripping of all the elements connected to Bus-2 at Shankarapalli SS.	Iv. Gachuboli line-1 v. 220kV Tandur line vi. 220kV Parigi line-1
12	GI-2	KARNATAKA	29-Nov-20 13:16	29-Nov-20 13:52	36 min	1690	0	5.3	0.0	31795	34084	Multiple Tripping at 400kV Jindal TPS of JSWEL and 400kV BTPS of KPCL : Units 1,3,4 and 5 at Jindal TPS (780 MW) tripped due to flash over in GIS Chamber and Units#1 and 2 at BTPS (906 MW) tripped due to electrical side problem. Complete Generation loss of 1690 MW. 400kV Jindal - BTPS , 400kV Jindal - BPS - 1, 400kV Jindal - Guttur and 400kV BTPS - Hiryur -1 also got tripped during this event. Details are still awaited.	iii. 400kV Jindal Guttur line

						Details of	Grid Events durin	g the Month of N	OVEMBER 2020,	in North Easte	rn Region		
	Category of Grid Event		Time and Date of				ation / loss of load he Grid Event		tion / loss of load w.r.t eration/Load in the		neration/Load in the ional Grid		
Sl No.	(GI 1or 2/ GD-1 to GD-5)	Affected Area	occurrence of Grid Event	Time and Date of Restoration	Duration	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
1	GD-I	Khupi area of Arunachal Pradesh Power System comprises of downstream load of 132 kV Buses of Tenga and Khupi Substations & Dikshi Power Station.	04-Nov-20 14:59	04-Nov-20 15:18	0:19:00	0	20	0	0.99	1851	2022	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. Restoration details : Power supply was extended to 132 kV Khupi Substation by charging of 132 kV Balipara - Tenga line at 15:18 Hrs on 04.11.2020.	132 kV Balipara - Tenga line
2	GD-1	Kohima (Capital) area of Nagaland Power System & Karong area of Maniput Power System comprises of downstream load of 132 kV Buses of Kohima, Meluri "Kiphire & Karong Substations		07-Nov-20 05:25	0:08:00	0	24	0	1.52	1846	1576	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 Dimpart(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 & 432 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 collapsec due to no source in this area. Restoration details: Power supply was extended to Karong area by charging 132 kV Imphal Karong line at 05:25 Hrs of 07.11.20 and upto Kohima by charging 132 kV Kohima-Karong at 07:46 hrs on 07.11.20.	132 Kohima -Wokha line 132 kV Karong -Kohima line 132 kV Imphal(MA)- Karong line
3	GD-I	Along area of Arunachal Pradesh Power System comprises of downstream load of 132 kV Bus of Along, Pasighat, Roing,Tezu & Namsai S/S	12-Nov-20 10:18	12-Nov-20 12:50	2:32:00	0	13	0	0.76	1440	1704	Along area of Arumachal Prudesh 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. Restoration Details: Power supply was extended to Along area of Arumachal Pradesh Power System by charging of 132 kV Daporijo - Along at 12:50 hrs on 12.11.20	1 132 kV Daporijo- Along line
4	GD-I	Capital area of Arunachal Pradesh Power System comprises of downstream load of 132 kV hanagar, Lekhi and Nirjuli Substations.	16-Nov-20 12:39	16-Nov-20 13:18	0:39:00	0	26	0	1.56	1538	1669	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 120 720 & 132 kV Nirtjuli - 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. Restoration Details: Power supply was extended to Lekhi via charging 132 kV Pare - Lekhi line at 13:18 Hrs on 16.11.20	132 kV Lekhi - Pare Line
5	GD-I	Khupi area of Arunachal Pradesh Power System comprises of downstream load of 132 kV Buses of Tenga and Khupi Substations & Dikshi Power Station.	17-Nov-20 14:00	17-Nov-20 14:10	0:10:00	0	18	0	1.08	1511	1668	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. Restoration Details: Power supply was extended to 132 kV Khupi Substation by charging of 132 kV Balipara - Tenga line at 14:10 Hrs on 17.11.2020.	132 kV Balipara - Tenga line
6	GD-I	Khupi area of Arunachal Pradesh Power System comprises of downstream load of 132 kV Buses of Tenga and Khupi Substations & Dikshi Power Station.	17-Nov-20 14:41	17-Nov-20 22:34	7:53:00	0	17	0	1.014	1493	1676	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 1441 Hrs on 17.11.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunacha Panedsh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area. Restoration Details: Power supply was extended to 132 kV Khupi Substation by charging of 132 kV Balipara - Tenga line at 22:34 Hrs on 17.11.2020.	132 kV Balipara - Tenga line
7	GD-I	Karong area of Manipur Power System comprises of downstream load of 132 kV Bus of Karong substation.	23-Nov-20 14:54	23-Nov-20 14:59	0:05:00	0	13	0	0.818	1190	1589	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 ripping 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. Restoration details: Power supply was extended to 132 kV Karong Substation by charging of 132 kV Karong-Kohima line at 14:59 Hrs on 23.11.2020	132 kV Imphal(MA) - Karong line 132 kV Karong-Kohima line
8	GI 2	Arunachal Pradesh	03-Nov-20 12:30	03-Nov-20 14:30	2:00:00	114	0	7.112	0.00	1603	1981	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.	Kameng Unit II
9	GI 1	Assam	11-Nov-20 03:27	11-Nov-20 06:30	3:03:00	24.5	0	1.623	0.00	1510	1506	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.	Khandong Unit 2
10	GI 2	Assam	13-Nov-20 06:22	13-Nov-20 08:00	1:38:00	30.5	0	1.848	0.00	1650	1785	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.	AGBPP Unit-4

					Details of	Grid Events durin	g the Month of N	OVEMBER 2020,	in North Easte	rn Region		
	Category of Grid Event		Time and Date of Time and Date			ation / loss of load he Grid Event	% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the		Antecedent Generation/Load in the Regional Grid			
Sl No.	(GI 1or 2/ GD-1 to GD-5)	Affected Area	occurrence of Grid Event	Duration	Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)	Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
11	GI 2	Assam	14-Nov-20 19:25 14-Nov-20 21:00	1:35:00	45.2	0	2.179	0.00	2074	2463	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.	AGBPP Unit-3,4& STG II
12	GI 2	Assam	15-Nov-20 03:08 15-Nov-20 05:00	1:52:00	24	0	1.669	0.00	1438	1395	AGBPP Unit-1 tripped at 03:17 Hrs on 15-11-2020due to tripping of Gas compressor-1. Revision done from Block No.21 on 15-11-2020.	AGBPP Unit-1
13	GI 2	Assam	18-Nov-20 18:41 18-11-20 20:30	1:49:00	193	0	10.153	0.00	1901	2557	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.	BgTPP Unit-1
14	GI 2	Arunachal Pradesh	20-Nov-20 00:59 20-Nov-20 03:30	2:31:00	148	0	11.709	0.00	1264	1505	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.	Kameng Unit-2
15	GI 2	Tripura	21-Nov-20 04:22 21-Nov-20 06:00	1:38:00	161	0	10.441	0.00	1542	1442	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.	Palatana Unit ST-I
16	GI 2	Arunachal Pradesh	22-Nov-20 23:09 23-Nov-20 01:00	1:51:00	127	0	10.986	0.00	1156	1384	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.	Kameng Unit 2
17	GI 2	Assam	24-Nov-20 04:22 24-Nov-20 06:00	1:38:00	190	0	16.115	0.00	1179	1466	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.	AGBPP Unit 1, 2, 3, 4, 5, 7 & 8
18	GI 2	Tripura	30-Nov-20 02:49 30-Nov-20 04:30	1:41:00	319	0	22.107	0.00	1443	1329	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.	Palatana Unit GT-II