

Northern Region-Grid Event Report for September 2020

S.No.	Region	Name of Elements (Tripped/Manually opened)	Affected Area	Owner/ Agency	Outage		Revival		Duration	Event (As reported)	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid	Energy Unreserved (in MU)
					Date	Time	Date	Time						
1	NR	1) 125 MVAR Bus Reactor No 1 at 400KV Rewa Road(UP) 2) 400/220 kv 315 MVA ICT 1 at Rewa Road(UP) 3) 400 KV Meja TPS(MUN)-Rewa Road(UP) (UP) Ckt-1 4) 400 KV Banda-Rewa Road (UP) Ckt-1 5) 400 KV Rewa Road-Panki (UP) Ckt-1 6) 400KV Bus 1 at Rewa Road(UP)	UTTAR PRADESH	UPPTCL	2-Sep-20	10:56	2-Sep-20	13:36	2:40	Bus Bar protection of 400 kv Bus-1 operated at Rewa road due to DC voltage earth fault in 125 MVAR BUS Reactor bay and false Bus bar protection operation. This caused tripping of all elements connected to this Bus-1 of 400/220kv Rewa Road(UP). As per PMU, No fault is observed in the system. In antecedent conditions, 400 KV Meja TPS(MUN)-Rewa Road(UP),400 KV Rewa Road-Panki (UP) & 400 KV Banda-Rewa Road (UP) Ckt-1 carrying 202MW, 267MW & 186MW respectively.	0	0	GI-2	0.00
2	NR	1) 220 KV Cheeka(HV)-Kaithal(PG) (HVPNL) Ckt-1 2) 220 KV Cheeka(HV)-Kaithal(PG) (HVPNL) Ckt-2	HARYANA	HVPNL/POWERGRID	2-Sep-20	11:26	2-Sep-20	12:30	1:04	Y- Phase LA of 220KV Cheeka-Sonta Ckt-2 got burned out and Bus bar protection operated at 220KV Cheeka resulting in tripping of 220KV Cheeka-Sonta Ckt-1 & 2, 220 KV Cheeka(HV)-Kaithal(PG) (HVPNL) Ckt-1 & 2. As per PMU, Y-N fault with delayed clearance is observed in the system. In antecedent conditions, 220 KV Cheeka(HV)-Kaithal(PG) (HVPNL) Ckt-1 & 2 carrying 73MW each. As per SCADA data, load loss of around 120MW is observed in Haryana.	0	120	GD-1	0.12
3	NR	1) 400 KV Gr.Noida_2(UPC)-Noida Sec 148 (UP) Ckt-1 2) 400 KV Gr.Noida_2(UPC)-Noida Sec 148 (UP) Ckt-2	UTTAR PRADESH	UPPTCL	4-Sep-20	11:59	4-Sep-20	14:41	2:42	There is some rectification work in GD circuit and DC circuit done by Transmission wing . During the work Bus bar has been operated at 400/220KV Noida Sec 148 (UP) on GD trip and tripped all element connected by connected to the Buses. As per PMU, No fault is observed in the system.	0	0	GI-2	0.00
4	NR	1) 400/220 kv 315 MVA ICT 1 at Wangto_GIS(HP) 2) 400/220 kv 315 MVA ICT 2 at Wangto_GIS(HP)	HIMACHAL PRADESH	HP	5-Sep-20	13:22	5-Sep-20	14:33	1:11	400/220 kv 315 MVA ICT 1 & 315 MVA ICT 2 at Wangto_GIS(HP) tripped during charging of 400kv Wangto-Kala amb ckt 1. Due to fault on Kala amb Ckt-1, fault escalated to ICT1 and ICT 2 due to issue in protection configuration. As per PMU, No fault is observed in the system. In antecedent conditions, 400/220 kv 315 MVA ICT 1 & 315 MVA ICT 2 at Wangto_GIS(HP) carrying 6MW & 7MW respectively.	20	0	GD-1	0.00
5	NR	1) 220 KV Kishenpur(PG)-Barn(JK) (PDD JK) Ckt-2 2) 220 KV Kishenpur(PG)-Barn(JK) (PDD JK) Ckt-1	J & K	PDD JK/POWERGRID	6-Sep-20	11:54	6-Sep-20	13:16	1:22	220 KV Kishenpur(PG)-Barn(JK) (PDD JK) Ckt-1 & 2 tripped on B-N fault. As per PMU, B-N fault with delayed clearance is observed in the system. In antecedent conditions, 220 KV Kishenpur(PG)-Barn(JK) (PDD JK) Ckt-1 & 2 carrying 14MW & 18MW respectively.	0	180	GD-1	0.25
6	NR	1) 220 KV AD hydro(AD)-Phozal(HP) (ADHPL) Ckt-1 2) 220 KV AD hydro(AD)-Nallagarh(PG) (ADHPL) Ckt-1	HIMACHAL PRADESH	ADHPL/HP/POWERGRID	7-Sep-20	4:38	7-Sep-20	8:49	4:11	220 KV AD hydro(AD)-Nallagarh(PG) tripped on R-N fault. At the same time, 220 KV AD hydro(AD)-Phozal(HP) tripped on under voltage. As per PMU, R-N fault is observed in the system. In antecedent conditions, 220 KV AD hydro(AD)-Nallagarh(PG) & 220 KV AD hydro(AD)-Phozal(HP) carrying 116MW & 25MW respectively. Unit#2 at 220 KV AD hydro(AD) generating 92MW.	90	0	GD-1	0.00
7	NR	1) 220 KV RAPS_A(NP)-Sakatpura(RS) (RS) Ckt-1 2) 220 KV RAPS_A(NP)-Sakatpura(RS) (RS) Ckt-2	RAJASTHAN	RRVNL/NPCIL	9-Sep-20	13:32	9-Sep-20	15:17	1:45	220 KV RAPS_A(NP)-Sakatpura(RS) (RS) Ckt-1 & 2 tripped on Y-N fault. As per PMU, Y-N fault is observed in the system. In antecedent conditions, 220 KV RAPS_A(NP)-Sakatpura(RS) (RS) Ckt-1 & 2 carrying 14MW & 18MW respectively.	0	0	GI-2	0.00
8	NR	1) 400 KV Rewa Road-Panki (UP) Ckt-1 2) 400 KV Obra_B-Rewa Road (UP) Ckt-1	UTTAR PRADESH	UPPTCL	10-Sep-20	3:44	10-Sep-20	4:52	1:08	400 KV Rewa Road-Panki (UP) tripped on R-N fault. At the same time, 400 KV Obra_B-Rewa Road (UP) tripped on three phase fault. As per PMU, R-N fault with delayed clearance of 560ms is observed in the system. In antecedent conditions, 400 KV Rewa Road-Panki (UP) & 400 KV Obra_B-Rewa Road (UP) carrying 186MW & 111MW respectively	0	0	GI-2	0.00
9	NR	1) 220 KV Bhiwadi(PG)-Rewari(HV) (HVPNL) Ckt-1 2) 220 KV Bhiwadi(PG)-Rewari(HV) (HVPNL) Ckt-2 3) 400/220 kv 315 MVA ICT 1 at Dhanoda(HV) 4) 400/220 kv 315 MVA ICT 2 at Dhanoda(HV) 5) 400/220 kv 315 MVA ICT 3 at Dhanoda(HV) 6) 220 kv Dhanoda(HV)-Lutahir(HV) Ckt-1	HARYANA	HVPNL/POWERGRID	10-Sep-20	5:40	10-Sep-20	6:35	0:55	220kv Rewari Lula Ahir Line B Phase CT Damaged due to The Flash. This incident leads to the tripping of all three 315MVA ICT at Dhanoda along with 220kv lines. As per PMU, B-N fault followed by three phase fault is observed in the system. In antecedent conditions, 400/220 kv 315 MVA ICT 1, 315 MVA ICT 2, 315 MVA ICT 3 at Dhanoda(HV) carrying 107MW, 107MW & 106MW respectively.	0	230	GD-1	0.21
10	NR	1) 400 KV Bareilly-Unnao (UP) Ckt-1 2) 400/220 kv 315 MVA ICT 3 at Bareilly(UP) 3) 400 KV Bareilly-Unnao (UP) Ckt-2 4) 400 KV Bareilly(UP)-Bareilly(PG) (PG) Ckt-1 5) 400 KV Bareilly(UP)-Bareilly(PG) (PG) Ckt-2 6) 400/220 kv 315 MVA ICT 2 at Bareilly(UP) 7) 400/220 kv 315 MVA ICT 1 at Bareilly(UP)	UTTAR PRADESH	UPPTCL/POWER GRID	10-Sep-20	14:45	10-Sep-20	16:40	1:55	At 400kv substation Bareilly CT switching relay RXPSU-14 burnt and damaged NO NC contacts which resulted into operation of bus bar protection. RXPSU-14 relay is CT switching relay of ABB RADSS bus bar protection and all the inputs from isolators of each bus are connected in RXPSU-14 for CT switching hence due to damage of contacts bus tied condition formed and both buses tripped on operation of busbar protection. As per PMU, No fault is observed in the system. In antecedent conditions, 400/220 kv 315 MVA ICT 1, 315 MVA ICT 2 & 315 MVA ICT 3 at Bareilly(UP) carrying 133MW, 132MW & 135MW respectively.	0	150	GD-1	0.30
11	NR	1) 400/220 kv 315 MVA ICT 1 at Bahadurgarh(PG) 2) 400/220 kv 500 MVA ICT 2 at Bahadurgarh(PG) 3) 220 KV Bahadurgarh(PG)-Nuna Majra(HV) (HVPNL) Ckt-2	HARYANA	HVPNL POWERGRID	12-Sep-20	16:39	12-Sep-20	18:19	1:40	220 KV Bahadurgarh(PG)-Nuna Majra(HV) (HVPNL) Ckt-2 tripped due to blast in B phase LA. At the same time, 400/220 kv 315 MVA ICT 1 & 400/220 kv 500 MVA ICT 2 at Bahadurgarh(PG) also tripped. As per PMU, B-N fault is observed in the system. In antecedent conditions, 400/220 kv 315 MVA ICT 1 & 400/220 kv 500 MVA ICT 2 at Bahadurgarh(PG) carrying 79MW & 131MW respectively.	0	0	GI-2	0.00
12	NR	1) 220 KV Amargarh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 2) 220 KV Amargarh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-2	J & K	PDD JK/NRSS29	14-Sep-20	10:28	14-Sep-20	14:08	3:40	220 KV Amargarh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 & 2 tripped on Y-B fault. As per PMU, Y-B fault is observed in the system. In antecedent conditions, 220 KV Amargarh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 & 2 carrying 167MW each.	0	40	GD-1	0.15
13	NR	1) 400 KV Manesar(PG)-Sohna Road (GPTL) (GPTL) Ckt-1 2) 400/220 kv 500 MVA ICT 1 at Sohna Road (GPTL)	HARYANA	GPTL/POWERGRID	17-Sep-20	3:22	17-Sep-20	6:10	2:48	400 KV Manesar(PG)-Sohna Road (GPTL) (GPTL) Ckt-1 tripped on B-N fault, F.D = 17.41km from Sohna road, F.C = 4.35KA. At the same time,400/220 kv 500 MVA ICT 1 at Sohna Road (GPTL) tripped due to Operation of transformer protection. As per PMU, B-N fault is observed in the system. In antecedent conditions,400 KV Manesar(PG)-Sohna Road (GPTL) (GPTL) Ckt-1 and 400/220 kv 500 MVA ICT 1 at Sohna Road (GPTL)carrying 151MW and 48MW respectively.	0	0	GI-2	0.00
14	NR	1) 400 KV Agra-Agra Fatehbad (UP) Ckt-1 2) 400 KV Agra(PG)-Agra Fatehbad(UP) (PG) Ckt-1	UTTAR PRADESH	UPPTCL/POWER GRID	20-Sep-20	7:46	20-Sep-20	9:58	2:12	400 KV Agra-Agra Fatehbad (UP) Ckt-1 tripped on R-N fault. At the same time, 400 KV Agra(PG)-Agra Fatehbad(UP) (PG) also tripped. As per PMU, R-N fault is observed in the system. In antecedent conditions, 400 KV Agra-Agra Fatehbad (UP) Ckt-1 carrying 95MW.	0	0	GI-2	0.00
15	NR	1) 400 KV Dadri(NT)-Panipat(BB) (PG) Ckt-1 2) 400KV Bus 1 at Panipat(BB)	HARYANA	BBMB/POWERGRID	22-Sep-20	11:58	22-Sep-20	12:50	0:52	400KV Bus 1 at Panipat(BB) tripped due to Relay mal-operation. At the same time 400 KV Dadri(NT)-Panipat(BB) (PG) Ckt-1 tripped due to tripping of 400KV Bus1 at Panipat. As per PMU, three phase fault is observed in the system. In antecedent condition 400 KV Dadri(NT)-Panipat(BB) (PG) Ckt-1 carrying 48MW.	0	0	GI-2	0.00

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					Date	Time	Date	Time						
16	NR	1) 220 KV Kishenpur(PG)-Barn(JK) (PDD JK) Ckt-1 2) 220 KV Kishenpur(PG)-Barn(JK) (PDD JK) Ckt-2	J & K	PDD JK/POWERGRID	22-Sep-20	12:20	22-Sep-20	13:23	1:03	220 KV Kishenpur(PG)-Barn(JK)(PDD JK) Ckt-1 & 220 KV Kishenpur(PG)-Barn(JK) (PDD JK) Ckt-2 tripped on Phase to phase Y to B fault. Distance of fault was 30.88 km from kishenpur end, fault current was 5.0 kA. As per PMU, Y-B fault with delayed clearance of 400ms is observed in the system. In antecedent conditions, 220 KV Kishenpur(PG)-Barn(JK)(PDD JK) Ckt-1 & 220 KV Kishenpur(PG)-Barn(JK) (PDD JK) Ckt-2 carrying 115MW & 117MW respectively.	0	200	GD-1	0.20
17	NR	1) 220 KV Nallagarh(PG)-Mohali(PS) (PS) Ckt-2 2) 220 KV Nallagarh(PG)-HPSEB(HP) (HPSEB) Ckt-1 3) 220KV Bus 2 at Nallagarh(PG) 4) 220 KV Nallagarh(PG)-Kishan(CHD) (CHD) Ckt-1 5) 400/220 kv 315 MVA ICT 3 at Nallagarh(PG)	PUNJAB	HP/POWERGRID	23-Sep-20	7:41	23-Sep-20	8:26	0:45	220kv Bus 2 tripped as LBB operated due to fault in 220 KV Nallagarh(PG)-Mohali(PS) (PS) Ckt-2 and lead to tripping of all elements associated with 220KV Bus 2 at 400/220KV Nallagarh(PG). As per PMU, R-N fault with delayed clearance is observed in the system. In antecedent conditions, 400/220 kv 315 MVA ICT 3 at Nallagarh(PG) carrying 158MW.	0	0	GI-2	0.00
18	NR	1) 400 KV Rajpura TPS(PSG)-Nakodar(PSG) (PS) Ckt-2 2) 400 KV Jalandhar(PG)-Nakodar(PSG) (PG) Ckt-1 3) 400KV Bus 1 at Nakodar(PSG)	PUNJAB	POWERGRID, PSTCL	24-Sep-20	13:21	24-Sep-20	14:37	1:16	400 KV Rajpura TPS(PSG)-Nakodar(PSG) (PS) Ckt-2 tripped on B-N fault, 18.5km from Rajpura end. Bus bar protection of 400KV Bus 1 at Nakodar(PSG) operated during tripping of 400KV Rajpura-Nakodar ckt 2 resulting in tripping of 400KV Bus 1 at Nakodar(PSG) & 400 KV Jalandhar(PG)-Nakodar(PG) (PG) Ckt-1. As per PMU, B-N fault with delayed clearance of 400ms is observed in the system. In antecedent conditions, 400 KV Jalandhar(PG)-Nakodar(PSG) (PG) Ckt-1 & 400 KV Rajpura TPS(PSG)-Nakodar(PG) (PS) Ckt-2 carrying 33MW & 169MW respectively.	0	0	GI-2	0.00
19	NR	1) 220 KV Meerut(PG)-Shatabdinagar(UP) (PG) Ckt-1 2) 220 KV Meerut(PG)-Modipuram(UP) (PG) Ckt-1 3) 220 KV Meerut(PG)-Modipuram(UP) (PG) Ckt-2	UTTAR PRADESH	UPPTCL	24-Sep-20	20:41	25-Sep-20	16:44	20:03	Y-N fault was detected in 220KV Modipuram-Faridnagar Line. This Line was charged only from Modipuram substation and was kept open from Faridnagar end. No protection operated at Modipuram end for this fault. Fault current was fed for more than 800ms and as reported by UPPTCL, during this time; Y-Phase jumper of Modipuram-Faridnagar line snapped at Modipuram substation and created Bus fault at Modipuram Substation. However, Bus Bar protection at Modipuram Substation was out of service and fault was not cleared by bus bar protection. This fault was delayed cleared from Meerut Substation in Zone-III time (800ms) of Meerut-Modipuram Line-I & line-II. As per PMU, Y-N fault with delayed clearance of 840ms is observed in the system. In antecedent conditions, 220 KV Meerut(PG)-Shatabdinagar(UP) (PG) Ckt-1, 220 KV Meerut(PG)-Modipuram(UP) (PG) Ckt-1 & 2 carrying 48MW, 133MW & 94MW respectively.	0	0	GI-2	0.00
20	NR	1)220 KV Samba(PG)-Hiranagar(PDD) (PG) Ckt-1 2) 220 KV Hiranagar(PDD)-Sarna(PS) (PG) Ckt-1	J & K	POWERGRID	25-Sep-20	15:38	25-Sep-20	16:55	1:17	220 KV Samba(PG)-Hiranagar(PDD) (PG) Ckt & 220 KV Hiranagar(PDD)-Sarna(PS) (PG) Ckt tripped due to Snapping of Jumper at Hiranagar end. As per PMU, R-N fault is observed in the system. In antecedent conditions, 220 KV Samba(PG)-Hiranagar(PDD) (PG) Ckt & 220 KV Hiranagar(PDD)-Sarna(PS) (PG) Ckt carrying 203MW & 197MW respectively.	0	400	GD-1	0.51
21	NR	1) 400KV Bus 1 at Banda(UP) 2) 400 KV Banda-Rewa Road (UP) Ckt-1	UTTAR PRADESH	UPPTCL	30-Sep-20	5:04	30-Sep-20	7:43	2:39	400 KV Banda-Rewa Road (UP) Ckt-1 tripped trip at banda (400 kv) end only & 400KV Bus 1 at Banda(UP) tripped due to BB / LBB Operated at Banda end. As per PMU, no fault is observed. In antecedent condition 400 KV Banda-Rewa Road (UP) Ckt-1 carrying 71MW.	0	0	GI-2	0.00

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S.No	Region	Name of Elements	Owner/Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA standards	Energy Unreserved (MU)
				Date	Time	Date	Time						
1	WR	Tripping of 1.400KV Radhanesda(Vav (PG))-Banaskantha 1&2 2.400/220KV Radhanesda(Vav (PG))-ICT 1&2 3.400 kv Radhanesda(Vav (PG)) B/R 1	PGCIL	3-Sep-20	11:27	3-Sep-20	15:21	3:54	At 400/220KV Radhanesda(Vav (PG))S/s, 400kv Banaskantha 1&2 lines tripped due to earth fault in DC source 2 causing black out at 400 kv Radhanesda(Vav (PG)) S/s.	Nil	Nil	GD-1	Nil
2	WR	Tripping of 1.220 kv Kolhapur(MH) Bus 2 2.220 kv Kolhapur(MH)-ichaikaranji 2 3.220 kv Kolhapur(MH)-Mudshingi 2 4.220 kv Kolhapur(MH)- Five star 2 5.220 kv Kolhapur(MH)-Sawantwadi 6.400/220kv, 500MVA Kolhapur(MH) ICT 3	MSETCL	4-Sep-20	15:03	4-Sep-20	15:35	0:32	At 400/220 kv Kolhapur(MH), while charging 220 kv Sawantwadi line after patrolling(which tripped earlier on Y-B fault), 220 kv Bus 2 and all the connected elements tripped on Bus bar protection mal-operation.	Nil	Nil	GI-1	Nil
3	WR	Tripping of 1.220 kv Solapur(MH) Bus 2 2.220 kv Solapur(MH)- Pandharpur 3.220 kv Solapur(MH)-Karkambh 4.400/220 kv Solapur ICT 2 5.220 kv Pandharpur-Bhalavani	MSETCL	5-Sep-20	13:41	5-Sep-20	14:15	0:34	At 400/220 kv Solapur(MH), 220 kv Karkambh tripped on B phase fault after attempting single phase A/R at 13:41 Hrs. Even after the opening of the breakers, A/R close command was persisting which should have been cut off by the anti pumping relay. The LBB timer was started during A/R and the CB closed again due to the persistent A/R close command. This led to the LBB operation of 220 kv Karkambh line and all the elements connected to 220 kv Solapur(MH) Bus 2 tripped. Before the event, at 13:32 Hrs, 220 kv Solapur(MH)-Pandharpur tripped on B-E fault. With these trippings, 220 kv Pandharpur-Bhalavani tripped on over load and 220 kv Pandharpur station blacked out. Due to the tripping of 220 kv Solapur(MH)-Karkambh, 220 kv Tembhurni and Malinagar load shifted on 220 kv Solapur(PG)-jeur and resulted in its LTS operation.	Nil	350	GD-1	0.20
4	WR	Tripping of 1.220 kv Nasik Bus section 2 2.220 kv Nasik- Babhleshwar 1 3.220 kv Nasik- Ghatghar 4.Nashik Generating Transformer 4 5.Nashik Station Transformer 4	MSETCL	9-Sep-20	14:36	9-Sep-20	15:00	0:24	At 220 kv Nasik, 220 kv Ghatghar line did not trip during R-E fault due to stuck breaker which resulted in LBB operation. This caused tripping of all the elements connected to 220 kv Bus section(BS) 2. 220kv Nasik -Babhleshwar-2 was connected to BS-3 and in the absence of outlet, power flow reduced to zero. 220kv Nasik-Babhleshwar -1 got overloaded and LTS operated. Also, 220 kv Nahik-Babhleshwar 1 tripped only at Babhleshwar end on backup over current protection operation.	Nil	Nil	GI-1	Nil
5	WR	Tripping of 1.220 kv Jabalpur(Sukha) Bus 2 2.220 kv Jabalpur(Sukha)- Narsingpur 2 3.220 kv Jabalpur(Sukha)- Panagar 2 4.220 kv Jabalpur(Sukha)-Jabalpur(MP) 2 5.400/220 kv Jabalpur ICT 2	MPPTCL	10-Sep-20	1:14	10-Sep-20	2:22	1:08	At 220 kv Jabalpur(Sukha) S/s, B phase PT of 220 kv Bus 2 blasted and all the elements connected to Bus 2 tripped on bus bar protection operation.	Nil	Nil	GI-1	Nil
6	WR	Tripping of 1.220 kv Suva Bus 2 2.220 kv Suva- Kosamba 3.220 kv Suva- Gavasad 4.220 kv Suva- Haldarwa 5.220 kv Suva- GNFC 1&2 6.220 kv Suva- China steel 2 7.220 kv Suva- DGEN	GETCO	15-Sep-20	8:06	15-Sep-20	8:44	0:38	At 220 kv Suva S/s, while switching 220KV GNFC line 2 from Bus-1 to Bus-2 for taking Bus 1 shutdown, 220 kv Bus 2 tripped along with all connected feeders. During the opening of 220 kv Bus 1 isolator, R phase isolator Earth switch of GNFC 2 closed and created bus fault due to which all elements connected to 220 kv Bus 2 tripped on bus bar protection operation.	Nil	70	GI-1	0.04
7	WR	Tripping of 1.220 kv Taloja-Panchnand	MSETCL	16-Sep-20	17:05	16-Sep-20	17:11	0:06	At 200kv Taloja S/s, 220kv Taloja - Apta line was under outage and source to 220 kv Taloja S/s was only through 220 kv Taloja-Panchnand. 220kv Taloja-Panchnand tripped due to B-ph conductor snapping at Loc no. 14-15, causing loss of 220 kv source to 220 kv Taloja substation and blackout. This event caused loss of power supply to 100kv Taloja, 100kv DFPL, 100kv FGL, 100kv BOC,100kv Hindalco substations.	Nil	140	GD-1	0.01
8	WR	Tripping of 1.220 kv Satna(MP)-Satna(PG) 1,2&3 2.220 kv Satna(MP)-Kotar 3.220 kv Satna(MP)-Chhatapur 4.220 kv Satna(PG)-Malhar 5.400/220 kv Satna(PG) ICTs 1&2	MPPTCL	17-Sep-20	0:56	17-Sep-20	1:29	0:33	At 220 kv Satna(MP), due to blasting of B phase CVT of 220kv Satna(PG)- 2, all the lines and ICTs connected to 220 kv Satna(MP) tripped on backup protection as the fault was not cleared by the primary protection. 220 kv Satna(PG)-Malhar and 400/220 kv Satna(PG) ICTs 1&2 also tripped during the event.	Nil	529	GD-1	0.29
9	WR	Tripping of 1.220 kv Palava-Pal 2.220kv Palava-Anandnagar 3.220 kv Padghe-Jhambul	MSETCL	18-Sep-20	9:53	18-Sep-20	11:07	1:14	At 220 kv Palava S/s, Y phase conductor of 220 kv Palava-Pal snapped and fell over B phase. This caused distance protection relay operation but the CB failed to open due to wiring issue in control circuit and resulted in LBB operation. 220 kv Anandnagar line tripped on Zone 4 distance protection operation. At the same time, 220 kv Padghe-Jhambul tripped on Backup Earth fault protection operation at Jhambul end. With the 220 kv source failure at Palava, approximately 100 MW of 220 kv Pal load shifted to 100 kv Pal-Taloja line and it tripped on O/C protection operation at Taloja end. With these trippings, 220 kv Palava, Pal and Jhambul station became dark.	Nil	214	GD-1	0.26
10	WR	Tripping of 1.220kv Utran-Kim 1 2.220kv Utran-Vav 3.220 kv Utran-Mota 4.375 MW Utran Stage 2 Unit 1	GETCO	20-Sep-20	1:27	20-Sep-20	3:00	1:33	220 kv Utran-Kim 1 tripped on B-E fault at 01:27:39 Hrs. At 220kv Utran S/s, B phase Lightning arrester of 220 kv Mota blasted and the line tripped on B-E fault at 01:27:40 Hrs. At the same time, 220 kv Utran-Vav tripped on R-Y-B fault at Utran end only. The load on 66 kv side of Utran was around 85 MW and generation was 188 MW. Due to the generation load imbalance, the Utran stage 2 generation tripped and the station blacked out. Utran-Kim-2 was under shutdown.	188	85	GD-1	0.13
11	WR	Tripping of 1.220 kv Kim-GSEG 2.220 kv Kim- Sugan 1&2 3.220 kv Kim- Kosamba 1&2 4.220 kv Kim-L&T Mora 5.220 kv Kim- Utran 1&2 6.220 kv Utran-Vav 7.220 kv Utran-Mota 8. 375 MW Utran Stage 2 Unit 1	GETCO	23-Sep-20	17:16	23-Sep-20	18:00	0:44	At 220 kv Kim S/s, due to blast of Y phase CT of 220 kv Kim-GSEG line at 17:16 Hrs, all the elements connected to 220 kv Buses 1&2 tripped on bus bar protection operation. 220 kv Utran-Vav tripped on R-E fault due to wave trap unwinding at Vav end. With these trippings, the evacuation from Utran was only through 220 kv Utran-Mota which tripped on O/C protection operation at Utran end. With these trippings, 220 kv Kim and Utran became dark.	350	328	GD-1	0.24
12	WR	Tripping of 1.220 kv Dhule(Old) Bus 2.220 kv Dhule-Dhule(Old) VC 1 3.220 kv Dhule-Dhule(Old) VC 2 4.220 kv Dhule(Old)-Chaligaon	MSETCL	23-Sep-20	22:32	24-Sep-20	0:37	2:05	At 220 kv Dhule(Old) switchyard, 220 kv bus bar protection mal-operated without any fault in the system and resulted in tripping of all the elements connected to the 220 kv Main Bus.	Nil	17	GD-1	0.04

Southern Region-Grid Event Report for September 2020

Sl. No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Energy Unserviced (MU)
				Date	Time (Hrs)	Date	Time (Hrs)	Time					
1	SR	i. 230 kV Hosur42 -Shoolagiri line-1 and 2 ii. 230 kV Shoolagiri - Mettur line iii. 230 kV Shoolagiri - Yerrahandahalli line iv. 100 MVA, 230 / 110 kV Transformer- I v.100 MVA, 230 / 110 kV Transformer- II vi. 100 MVA, 230 / 110 kV Transformer- III	TANTRANSCO	5-Sep-20	1:19	5-Sep-20	2:47	1 hr 28 mins	Complete outage of 230kV Hosur SS of TANTRANSCO: Triggering incident was failure of Y ph CT of 230kV Hosur_TN - Shoolagiri line-2. Bus-1 BBP got operated and all the elements connected to Bus-1 got tripped at 230 kV Hosur_TN end. Since there is single bus operation at 230 kV Hosur_TN SS, this resulted in complete loss of supply at 230 kV Hosur_TN SS.	----	200 MW	GD-1	0.29
2	SR	i. 220kV Lingasugur - RTPS line-1 ii. 220kV Lingasugur - RTPS line-2 iii. 220kV Lingasugur - Shahpura line iv. All other 220kV connected lines at Lingasugur.	KPTCL	22-Sep-20	13:05	22-Sep-20	13:30	25 mins	Complete outage of 220kV Lingasugur, 220kV Bagewadi stations of KPTCL and 220kV Alamatti station of KPCL: Triggering incident was tripping of 220kV Lingasugur - RTPS line-1 on distance protection due to fault in the line. After about 4mins, 220kV Lingasugur - Shahpura and 220kV Lingasugur - RTPS line-2 tripped on overcurrent protection. As reported, after tripping of these lines, there was cascaded tripping of the other 220kV lines connected at Lingasugur station resulting in complete loss of supply at 220kV Lingasugur station. During the event, 220kV Bagewadi station and 220kV Alamatti station were also affected. Further details awaited.	640 MW (240MW at Alamatti and 400 MW Wind)	NIL	GD-1	----
3	SR	i. 220kV Duvva - Bheemavarm ii. 220kV Duvva - Vemagiri	APTRANSCO	25-Sep-20	15:46	25-Sep-20	16:44	58 mins	Complete outage of 220kV Duvva station of APTRANSCO: Triggering incident was fault in both the connected lines viz. 220kV Duvva - Bheemavaram and 220kV Duvva - Vemagiri at 220kV Duvva station. This resulted in complete loss of supply at 220kV Duvva station. Further details are awaited.	----	55 MW	GD-1	0.05
4	SR	i. 230kV Karmadai - Kundah PH3 ii. 230kV Karmadai - Pushep iii. 230kV Karmadai - Ingur iv. 230/110kV, Transformer-1 v. 400/230kV, ICT-1 vi. 400/230kV ICT-3 vii. 230kV Bus Coupler	TANTRANSCO	1-Sep-20	3:47	1-Sep-20	7:29	3 hrs 42 mins	Tripping of 230kV Bus-A at 400/230kV Karmadai SS of TANTRANSCO : As reported 230kV Bus-A Bus Bar Protection operated at 400/230kV Karmadai station during test charging. All elements connected to 230kV Bus-A at Karmadai tripped.	----	----	GI-1	----
5	SR	i. 220kV Malyalapalli - Jagtyal ckt-2 and 3 ii. 220kV Malyalapalli - Dursheed ckt-2 iii. 220kV Malyalapalli - Rampur line iv. 220kV Malyalapalli - Manthani line v. 220kV Malyalapalli - Murmur line vi. 400/220kV ICT-2 & 3 at RSTPS vii. 220/132kV, 150MVA Transformer-2	TSTRANSCO	29-Sep-20	11:42	29-Sep-20	13:55	2 hrs 13 mins	Tripping of 220kV Bus-2 at 220kV Malyalapalli station of TSTRANSCO: Triggering incident was fault in 220kV Malyalapalli - Jagtyal ckt-3 which was connected to 220kV Bus-2. Simultaneously bus bar protection of 220kV Bus-2 operated and all elements connected to Bus-2 tripped. Further details are awaited.	----	----	GI-1	----

Eastern Region-Grid Event Report for September 2020

Sl. No.	Region	Name of major elements tripped	Owner / Agency	Outage		Revival		Outage Duration Time	Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Loss of Energy(In MU)
				Date	Time	Date	Time						
1	ER	400 kV Barh – Motihari – 2	ISTS	2-Sep-20	0:20	2-Sep-20	0:59	0:39	At 00:20 hrs 400 kV Barh – Motihari – 2 tripped due to R phase to earth fault. The tripping led to total power failure at Motihari 400kV s/stn besides loss of supply to Betiya, Raxaul, Ramnagar and Narktiaganj; being the single source of supply causing Grid Disturbance 1 (GD-1) category event.	0	280	GD-1	0.1820
2	ER	220 kV MTPS –Gopalganj – 2 220 kV MTPS – Samastipur – 1	BSPTCL	4-Sep-20	11:30	4-Sep-20	17:56	6:26	220 kV MTPS - Gopalganj – 1 was under shutdown. At 11:02 hrs. 220 kV MTPS –Gopalganj - 2 tripped on B phase to earth fault resulting total power failure at 220kV Gopalganj and to the loads supplied radially from this s/stn. At same time 220 kV MTPS – Samastipur – 1 tripped from MTPS end and smoke was noticed around vegetation near pump house of MTPS. As a precautionary measure, 220 kV MTPS – Samastipur – 2 was hand tripped from both ends.	0	202	GD-1	1.2995
3	ER	220 kV Darbhanga (DMTCL)-Darbhanga (Bihar) - 2 220 kV Darbhanga-Mushahari-D/C 400/220 kV 500 MVA ICT 1 & 2 at Darbhanga (DMTCL) ☹	BSPTCL	19-Sep-20	16:37	19-Sep-20	17:46	1:09	To perform the main breaker timing test at BSPTCL end, 220 kV Darbhanga (DMTCL)– Darbhanga(BSPTCL) – 2 was connected via the transfer bus coupler (TBC) bay at Darbhanga (BSPTCL) S/S. At 16:37 hrs, the above-mentioned line tripped due to Y phase to earth fault. At the same time, 400/220 kV 500 MVA ICT 1 & 2 at Darbhanga (DMTCL) also got tripped on directional earth fault protection from 400 kV side and 220 kV Darbhanga (DMTCL) Mushari D/C tripped on the operation of distance protection from Mushari end. 220 kV Darbhanga (DMTCL)-Darbhanga(BSPTCL) 1 also tripped from BSPTCL end sensing this fault as per preliminary information. This had led to a total power failure at 220/132 kV Darbhanga (BSPTCL) S/s causing load loss of around 380 MW. On investigation, BPI of Y-phase of TBC at Darbhanga (BSPTCL) was found in the flashed conditions at Darbhanga (BSPTCL) substation.	0	380	GD-1	0.44
4	ER	220 kV Hatia Patratu D/C 220 kV Tenughat Patratu S/C	JUSNL	23-Sep-20	8:45	23-Sep-20	10:30	1:45	At 08:45 hrs R phase to earth fault occurred at Patratu S/S due to snapping of Shield wire on R – Phase jumper of 50 MVA, 132/33 kV Power Transformer. Transformer relay sensed fault in Differential & REF (field CT is used for Diff & REF) protection and issued trip command instantly but breaker failed to operate due to problem in mechanism. Fault was not cleared from all remote ends due to low fault current. After 8s (approx.) R phase to earth fault got converted into Y phase to earth fault, due to snapping of 220 kV Bus -2 jumper at Patratu and subsequently all the 220 kV feeders connected to Patratu tripped in Zone - 2 from remote end.	0	0	GD-1	0.00
5	ER	220 KV Patratu-Hatia 2 220 KV Tenughat-Biharshariff S/C	JUSNL	23-Sep-20	13:49	23-Sep-20	14:19	0:30	At 13:49 hrs 220 KV Patratu-Hatia 2 (circuit-1 was already under breakdown since 08:45 Hrs) and 220 KV Tenughat-Biharshariff S/C tripped due to B phase to earth fault resulting total power failure at 220 kV Tenughat and Patratu thermal power station.	280	0	GD-1	0.00
6	ER	400 kV Barh – Motihari – 2	ISTS	24-Sep-20	1:33	24-Sep-20	2:09	0:36	At 01:33 Hrs, 400 kV Barh Motihari - 2 tripped due to R phase to earth fault resulting total power failure at 400/132 kV S/S along with interruption of power supply to downstream areas. It was restored at 01:58 hrs.	0	230	GD-1	0.14
7	ER	400 kV Barh – Motihari – 2	ISTS	24-Sep-20	14:19	24-Sep-20	15:12	0:53	400 kV Barh Motihari - 2 tripped due to R phase to earth fault, resulting another interruption of power supply at 14:19 hrs.	0	125	GD-1	0.11
8	ER	220 kV Jorethang - New Mellli D/C	ISTS	30-Sep-20	10:50	30-Sep-20	11:00	0:10	At 10:50 hrs 220 KV Jorethang-New Mellli - 2 tripped due to B phase to earth fault. 220 KV Jorethang-New Mellli - 1 tripped at the same time from Jorethang end only. As a result, both the running units of Jorethang tripped due to loss of evacuation path and total power failure occurred at Jorethang Plant	100	0	GD-1	0.00
9	ER	220 kV Jorethang - New Mellli - 1	ISTS	30-Sep-20	11:40	30-Sep-20	11:56	0:16	After tripping of 220 KV Jorethang-New Mellli - D/C at 10:50 hrs, circuit-1 was restored at 11:00 hrs and JLHEP resumed generation from 11:06 Hrs. However, this circuit tripped again at 11:40 hrs resulting in tripping of both the running units and total power failure at Jorethang hydro power plant.	100	0	GD-1	0.00

North Eastern Region-Grid Disturbances Report for September 2020

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Revival	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generati on Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
1	NER	132 kV Along - Pasighat line	DoP, Arunachal Pradesh	01-Sep-20 11:07	01-Sep-20 11:41	0:34:00	Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along - Pasighat line. At 11:07 Hrs on 01.09.2020, 132 kV Along - Pasighat line tripped. Due to tripping of this element, Pasighat area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	11	0	0.006	GD 1
2	NER	132 kV Along - Pasighat line	DoP, Arunachal Pradesh	01-Sep-20 13:13	01-Sep-20 13:23	0:10:00	Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along - Pasighat line. At 13:13 Hrs on 01.09.2020, 132 kV Along - Pasighat line tripped. Due to tripping of this element, Pasighat area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	12	0	0.002	GD 1
3	NER	132 kV Along - Pasighat line	DoP, Arunachal Pradesh	02-Sep-20 11:27	02-Sep-20 12:02	0:35:00	Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along - Pasighat line. At 11:27 Hrs on 02.09.2020, 132 kV Along - Pasighat line tripped. Due to tripping of this element, Pasighat area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	12	0	0.0070	GD 1
4	NER	132 kV Along - Pasighat line	DoP, Arunachal Pradesh	02-Sep-20 12:25	02-Sep-20 13:50	1:25:00	Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along - Pasighat line. At 12:25 Hrs on 02.09.2020, 132 kV Along - Pasighat line tripped. Due to tripping of this element, Pasighat area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	0	0.0180	GD 1
5	NER	132 kV Melriat - Zuangtui line	P&ED Mizoram	04-Sep-20 11:58	04-Sep-20 12:14	0:16:00	Zuangtui area of Mizoram Power System was connected with the rest of NER Grid through 132 kV Melriat - Zuangtui line. At 11:58 Hrs dtd 04.09.2020, 132 kV Melriat - Zuangtui line tripped. Due to tripping of this element, Zuangtui area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	40	0	0.0107	GD 1
6	NER	132 kV Dullavcherra - Hailakandi line 132 kV Dharmanagar - Dullavcherra line 132 kV PK Bari - Dharmanagar line	AEGCL,TSECL	05-Sep-20 14:58	05-Sep-20 18:59	4:01:00	Dullavcherra area of Assam Power System & Dharmanagar area of Tripura Power System were connected with the rest of NER Grid through 132 kV Dullavcherra -Hailakandi & 132 kV PK Bari - Dharmanagar line. At 14:58 Hrs dtd 05.09.2020,132 kV Dullavcherra - Hailakandi line & 132 kV PK Bari-Dharmanagar line tripped. Due to tripping of these elements, Dullavcherra area of Assam Power System & Dharmanagar area of Tripura Power System were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	27	0	0.1085	GD 1
7	NER	132 kV Imphal - Yaingangpokpi D/C	MSPCL	07-Sep-20 18:25	07-Sep-20 18:46	0:21:00	Yiangangpokpi area of Manipur Power System was connected with the rest of NER Grid through 132 kV Imphal -Yaingangpokpi D/C lines. 132 kV Kakching - Kongba line was kept open for system requirement. At 18:25 Hrs on 07-09-2020 , 132 kV Imphal-Yaingangpokpi D/C lines tripped. Due to tripping of these elements, Yiangangpokpi area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	53	0	0.0190	GD 1
8	NER	132 kV Ziro - Daporijo line	DoP, Arunachal Pradesh	09-Sep-20 20:14	09-Sep-20 20:34	0:20:00	Daporijo area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Ziro-Daporijo line. At 20:14 Hrs on 09.09.2020, 132 kV Ziro-Daporijo line tripped. Due to tripping of this element, Daporijo area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	23	0	0.0080	GD 1
9	NER	132 kV Along - Pasighat line	DoP, Arunachal Pradesh	10-Sep-20 12:00	10-Sep-20 13:46	1:46:00	Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along - Pasighat line. At 12:00 Hrs on 10.09.2020,132 kV Along - Pasighat line tripped. Due to tripping of this element, Pasighat area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	14	0	0.0250	GD 1
10	NER	400 kV Ranganadi - Biswnath Chariali D/C	POWERGRID	11-Sep-20 02:38	11-Sep-20 03:23	0:45:00	Capital & Ziro areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 400 kV Ranganadi - Biswnath Chariali D/C. 132 kV Nirjuli - Gohpur line was open due to system requirement. At 02:38 Hrs on 11.09.2020, 400 kV Ranganadi - Biswnath Chariali D/C tripped. Due to tripping of these elements, Capital & Ziro areas of Arunachal Pradesh Power System were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	57	0	0.0430	GD 1
11	NER	400 kV Balipara - Kameng line I line	POWERGRID	11-Sep-20 20:23	11-Sep-20 20:43	0:20:00	Kameng area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 400 kV Balipara - Kameng line I line. 400 kV Balipara - Kameng line II line was under forced outage since 20:12 of 11.09.20. At 20:23 Hrs on 11.09.2020, 400 kV Balipara - Kameng line I line tripped. Due to tripping of this element, Kameng area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	153	0	0.051	0.0000	GD 1
12	NER	132 kV Srikona - Pailapool line 132 kV Pailapool - Jiribam line	AEGCL	14-Sep-20 11:28	14-Sep-20 11:45	0:17:00	Pailapool area of Assam Power System was connected with the rest of NER Grid through 132 kV Srikona - Pailapool line and 132 kV Pailapool - Jiribam line. At 11:28 Hrs on 14.09.2020, 132 kV Srikona - Pailapool line and 132 kV Pailapool - Jiribam line tripped. Due to tripping of these elements, Pailapool area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	23	0	0.0065	GD 1
13	NER	132 kV Gohpur - North Lakhimpur (Nalkata) I line	AEGCL	14-Sep-20 13:39	14-Sep-20 13:49	0:10:00	North Lakhimpur (Nalkata) area of Assam Power System was connected with the rest of NER grid through 132 kV Gohpur - North Lakhimpur (Nalkata) I line. (132 kV Gohpur - North Lakhimpur (Nalkata) II line was under planned shut down from 10:19 Hrs of 14-09-20. At 13:39 Hrs on 14.09.20, 132 kV Gohpur - North Lakhimpur (Nalkata) I line tripped. Due to tripping of this element, Lakhimpur (Nalkata) area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	22	0	0.0037	GD 1
14	NER	132 kV Khleihriat - Leshka D/C	MePTCL and MePGCL	16-Sep-20 23:35	16-Sep-20 23:50	0:15:00	Leshka Power Station of Meghalaya Power System was connected with rest of NER Grid through 132 kV Khleihriat - Leshka D/C . At 23:35 hrs of 16.09.2020, 132 kV Khleihriat - Leshka D/C tripped. Due to tripping of these lines, Leshka Power Station of Meghalaya Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	84	0	0.021	0.0000	GD 1
15	NER	220 kV Misa - Samaguri I and II lines 220 kV Samaguri - Jawaharnagar line 220 kV Samaguri - Sonapur line 220 kV Samaguri - Sonabil line	AEGCL	17-Sep-20 05:53	17-Sep-20 07:38	1:45:00	Samaguri Area of Assam Power System was connected with the rest of NER Gird through 220 kV Misa - Samaguri I and II lines, 220 kV Samaguri - Jawaharnagar line, 220 kV Samaguri - Sonapur line, 220 kV Samaguri - Sonabil line. At 05:53 Hrs dtd 17.09.2020, 220 kV Misa - Samaguri I and II lines, 220 kV Samaguri - Jawaharnagar line, 220 kV Samaguri - Sonapur line, 220 kV Samaguri - Sonabil line tripped. Due to tripping of these elements, Samaguri area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	130	0	0.2280	GD 1

North Eastern Region-Grid Disturbances Report for September 2020

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Revival	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generati on Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
16	NER	New Umtru HEP U-I New Umtru HEP U-II 132 kV New Umtru - Umtru line 132 kV New Umtru - EPIP II line	MePTCL & MePGCL	17-Sep-20 11:43	17-Sep-20 11:55	0:12:00	New Umtru Area of Meghalaya Power System was connected with the rest of NER Grid through 132 kV New Umtru - Umtru line and 132 kV New Umtru - EPIP II line. At 11:43 Hrs on 17.09.2020, 132 kV New Umtru - Umtru line and 132 kV New Umtru - EPIP II line tripped. Due to tripping of these elements, New Umtru Area of Meghalaya Power System consisting of New Umtru HEP U-I and New Umtru HEP U-II were separated from rest of NER Grid and subsequently collapsed due to load-generation mismatch.	40	35	0.008	0.0070	GD 1
17	NER	132 kV Melriat - Zuangtui line	P&ED, Mizoram	17-Sep-20 14:31	17-Sep-20 14:48	0:17:00	Zuangtui area of Mizoram Power System was connected with the rest of NER Grid through 132 kV Melriat - Zuangtui line. At 14:31 Hrs dtd 17.09.2020, 132 kV Melriat - Zuangtui line tripped. Due to tripping of this element, Zuangtui area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	39	0	0.0110	GD 1
18	NER	132 kV Along - Pasighat line	DoP, AP	17-Sep-20 23:55	18-Sep-20 05:33	5:38:00	Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along - Pasighat line. At 23:55 Hrs on 17.09.2020, 132 kV Along - Pasighat line tripped. Due to tripping of this element, Pasighat area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	12	0	0.0680	GD 1
19	NER	132 kV Along - Pasighat line	DoP, Arunachal Pradesh	19-Sep-20 10:06	19-Sep-20 11:18	1:12:00	Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along - Pasighat line. At 10:06 Hrs on 19.09.2020, 132 kV Along - Pasighat line tripped. Due to tripping of this element, Pasighat area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	16	0	0.0190	GD 1
20	NER	132 kV Along - Pasighat line	DoP Arunachal Pradesh	20-Sep-20 08:22	20-Sep-20 15:34	7:12:00	Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along - Pasighat line. At 08:22 Hrs on 20.09.2020, 132 kV Along - Pasighat line tripped. Due to tripping of this element, Pasighat area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	14	0	0.1010	GD 1
21	NER	132 kV Monarchak - Udaipur line	TSECL	20-Sep-20 13:36	20-Sep-20 13:48	0:12:00	Rabindranagar Area of Tripura Power System & Monarchak Power Station were connected with the rest of NER Grid through 132 kV Monarchak - Udaipur line. 132 kV Monarchak - Rokhia Line was under forced outage since 11:45 Hrs on 20.09.20. At 13:36 Hrs on 20.09.2020, 132 kV Monarchak - Udaipur line tripped. Due to tripping of this element, Rabindranagar Area of Tripura Power System & Monarchak Power Station were separated from rest of NER Grid and subsequently collapsed due to load-generation mismatch.	53	8	0.011	0.0020	GD 1
22	NER	132 kV Balipara - Tenga line.	NEEPCO & DoP, AP	21-Sep-20 02:52	21-Sep-20 03:10	0:18:00	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 02:52 Hrs on 21.09.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	12	0	0.0036	GD 1
23	NER	132 kV Lekhi - Pare Line	POWERGRID & DoP AP	21-Sep-20 17:23	21-Sep-20 18:44	1:21:00	Capital area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Lekhi - Pare Line. (132 kV Pare - Itanagar line & 132 kV Ranganadi - Itanagar line were under outage due to tower collapse since 12.07.20 & 132 kV Nirjuli - Gohpur line was kept open to control loading of 132 kV Lekhi - Pare Line). At 17:23 Hrs on 21.09.20, 132 kV Lekhi - Pare Line tripped. Due to tripping of this element, Capital area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	52	0	0.0700	GD 1
24	NER	132 kV Dimapur (PG)-Kohima(DoP, Nagaland) line, 132 Kohima -Wokha line and 132 kV Karong - Kohima line.	POWERGRID & DoP, Nagaland	24-Sep-20 09:41	24-Sep-20 10:08	0:27:00	Kohima (Capital) area of Nagaland Power System was connected with rest of NER Grid through 132 kV Dimapur (PG)-Kohima(DoP, Nagaland) line, 132 Kohima -Wokha line and 132 kV Karong -Kohima line. At 09:41 Hrs on 24.09.20, 132 kV Dimapur (PG)-Kohima(DoP, Nagaland) line, 132 Kohima -Wokha and 132 kV Karong -Kohima line line tripped. Due to tripping of these elements, Kohima (Capital) area of Nagaland Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0	0.0068	GD 1
25	NER	132 kV Balipara - Tenga line	NEEPCO & DoP, AP	25-Sep-20 10:07	25-Sep-20 10:21	0:14:00	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 10:07 Hrs on 25.09.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	18	0	0.0042	GD 1

North Eastern Region-Grid Disturbances Report for September 2020

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Revival	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generati on Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
26	NER	132 kV Khliehriat(MePTCL) - Lumshnong line and 132 kV Lumshnong - Panchgram line.	AEGCL, MEPTCL	26-Sep-20 05:17	26-Sep-20 06:54	1:37:00	Lumshnong Area of Meghalaya Power System was connected to the rest of NER grid through 132 kV Khliehriat(MePTCL) - Lumshnong line and 132 kV Lumshnong - Panchgram line. At 05:17 hrs of 26.09.2020, 132 kV Khliehriat(MePTCL) - Lumshnong line and 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	30	0	0.0485	GD 1
27	NER	132 kV Along - Pasighat line	DoP, Arunachal Pradesh	26-Sep-20 20:46	26-Sep-20 22:40	1:54:00	Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along - Pasighat line. At 20:46 Hrs on 26.09.2020, 132 kV Along - Pasighat line tripped. Due to tripping of this element, Pasighat area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	18	0	0.0342	GD 1
28	NER	132 kV Dimapur (PG) -Dimapur (DoP Nagaland) I line	DoP, Nagaland	28-Sep-20 03:51	28-Sep-20 04:16	0:25:00	Dimapur area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Dimapur (PG) -Dimapur (DoP Nagaland) I line. 132 kV Dimapur (PG) -Dimapur (DoP Nagaland) II line was under forced outage since 03:40 hrs dated 28-09-2020. At 03:51 Hrs on 28.09.2020, 132 kV Dimapur (PG) -Dimapur (DoP Nagaland) I line tripped. Due to tripping of this element, Dimapur area of Nagaland Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	22	0	0.0090	GD 1
29	NER	132 kV Balipara - Tenga line	NEEPCO & DoP, AP	28-Sep-20 08:38	28-Sep-20 09:08	0:30:00	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 08:38 Hrs on 28.09.2020, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	20	0	0.01	GD 1
30	NER	220/132 kV, 100 MVA ICT II at BTPS(AS)	AEGCL	29-Sep-20 13:21	29-Sep-20 13:31	0:10:00	Dhaligaon Area of Assam Power System was connected with the rest of NER Grid through 220/132 kV, 100 MVA ICT II at BTPS(AS). 220/132 kV, 160 MVA ICT I at BTPS(AS) was under emergency shutdown for oil filling wef 12:00 hrs on 29/09/20, 132 kV Bornagar-Rangia line was faulty from 12:07 hrs on 29/09/20 and 132 kV Dhaligaon-Nalbari line was kept opened for system requirements. At 13:21 Hrs dtd 29.09.2020, 220/132 kV, 100 MVA ICT II at BTPS(AS) tripped. Due to tripping of this element, Dhaligaon Area was separated from rest of NER grid and collapsed due to no source in this area.	0	115	0	0.02	GD 1
31	NER	132 kV SM Nagar - Budhjungnagar I line 132 kV Agartala - Budhjungnagar line	TSECL	30-Sep-20 12:43	30-Sep-20 12:59	0:16:00	Budhjungnagar Area of Tripura Power System was connected with the rest of NER Grid through 132 kV SM Nagar - Budhjungnagar I line and 132 kV Agartala - Budhjungnagar line. 132 kV SM Nagar - Budhjungnagar II line and 132 kV P.K Bari - Ambassa line were under planned shutdown. 132 kV Kamalpur- Ambassa was idle charged from Ambassa end for System requirement. At 12:43 Hrs dtd 30.09.2020, 132 kV SM Nagar - Budhjungnagar I line and 132 kV Agartala - Budhjungnagar line tripped. Due to tripping of these elements, Budhjungnagar area was separated from rest of NER grid and collapsed due to no source in this area.	0	35	0	0.01	GD 1

North Eastern Region-Grid Incidences Report for September 2020

Sl. No.	Region	Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Revival	Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Generation Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
1	NER	Palatana GTG-1 & STG-1	OTPC	02-Sep-20 00:07	02-Sep-20 01:30	1:23:00	Palatana GTG-1 & STG-1 tripped at 00:07 Hrs on 02-09-2020 due to loss of flame. Revision done from Block No.7 on 02-09-2020	344	0	0.48	0	GI 2
2	NER	BgTPP Unit-3	NTPC	10-Sep-20 15:04	10-Sep-20 16:30	1:26:00	BgTPP Unit-3 tripped at 15:04 Hrs on 10-09-2020 due to loss of fuel . Revision done from Block No.67 on 10-09-2020	116.8	0	0.17	0	GI 2
3	NER	AGBPP Unit-2 & 7	NEEPCO	13-Sep-20 06:48	13-Sep-20 09:00	2:12:00	AGBPP Unit-2 & 7 tripped due to tripping of GBC at 06:48 Hrs on 13-09-2020. Revision done from Block No.37 on 13-09-2020	39	0	0.09	0	GI 2
4	NER	BgTPP Unit-3	NTPC	14-Sep-20 10:01	14-Sep-20 11:30	1:29:00	BgTPP Unit-3 tripped at 10:01 Hrs on 14-09-2020 due to loss of fuel (boiler trip). Revision done from Block No.47 on 14-09-2020	122	0	0.18	0	GI 2
5	NER	AGBPP Unit-7 & 8	NEEPCO	19-Sep-20 12:41	19-Sep-20 14:00	1:19:00	AGBPP Unit-7 & 8 tripped at 12:41 Hrs on 19-09-20 due to Voltage Jerk. Revision done from Block No.57 on 19-09-20	20	0	0.03	0	GI 2
6	NER	BgTPP Unit-3	NTPC	19-Sep-20 20:23	19-Sep-20 22:00	1:37:00	BgTPP Unit-3 tripped at 20:23 Hrs of 19-09-2020 due to PA Fan problem and EHTC hunting issue. Revision done from Block No.89 on 19-09-2020	212	0	0.34	0	GI 2
7	NER	AGBPP Unit-2	NEEPCO	20-Sep-20 16:22	20-Sep-20 18:00	1:38:00	AGBPP Unit-2 tripped at 16:22 Hrs on 20.09.20 due to tripping of GBC. Revision done from Block No.73 on 20-09-2020.	35	0	0.06	0	GI 2
8	NER	AGBPP Unit-5	NEEPCO	30-Sep-20 12:38	30-Sep-20 14:00	1:22:00	AGBPP Unit-5 tripped due to control oil pressure low at 12:38 Hrs on 30-09-2020. Revision done from Block No.57 on 30-09-2020	28.3	0	0.04	0	GI 2