

Northern Region-Grid Event Report for October 2019

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 Standards	Energy Unerved (in MU)
					Date	Time	Date	Time						
1	NR	1) 220kV Bawana(DTL)-Kanjawala(DTL) ckt-1 2) 220kV Bawana(DTL)-Kanjawala(DTL) ckt-2	Delhi	Delhi	3-Oct-19	13:24	3-Oct-19	13:29	00:05	220kV Bawana(DTL)-Kanjawala(DTL) ckt-1 & 2 tripped on operation of distance protection. As per PMU, B-N fault is observed in the system. In antecedent conditions, 220kV Bawana(DTL)-Kanjawala(DTL) ckt-1 & 2 carrying 51MW & 49MW respectively.	75		GD-1	0.01
2	NR	1) 400kV Sambha(PG)-Amargarh(NR529) ckt-1 2) 400kV Sambha(PG)-Amargarh(NR529) ckt-2	Jammu & Kashmir	POWERGRID & NR529	3-Oct-19	16:59	7-Oct-19	00:54	13:12	400kV Sambha(PG)-Amargarh(NR529) ckt-1 & 2 tripped on B-N fault. As per PMU, multiple faults(R-Y fault followed by Y-N & B-N fault) are observed in the system. In antecedent conditions, 400kV Sambha(PG)-Amargarh(NR529) ckt-1 & 2 carrying 67MW & 69MW respectively.			GI-2	
3	NR	1) 765kV Lalitpur(UP)-Fatehabad(UP) ckt-1 2) 220kV Lalitpur(UP)-Jhansi(UP) ckt-1 3) 220kV Lalitpur(UP)-Jhansi(UP) ckt-2 4) 220kV Lalitpur(UP)-Lalitpur(UP) ckt-1 5) 220kV Lalitpur(UP)-Lalitpur(UP) ckt-2 6) 660MW Unit#1 at 765kV Lalitpur(UP) 7) 660MW Unit#2 at 765kV Lalitpur(UP)	Uttar Pradesh	UP	5-Oct-19	13:00	5-Oct-19	15:46	02:46	765kV Lalitpur(UP)-Fatehabad(UP) ckt-2 tripped on B-N fault at 1100Hrs. During charging of 765kV Lalitpur(UP)-Fatehabad(UP) ckt-2, 765kV Lalitpur(UP)-Fatehabad(UP) ckt-1 tripped on DT received from Fatehabad(UP) end due to overvoltage at Fatehabad(UP) end. Due to SPS operation, Unit#1 tripped and Unit#1 comes on house load. As per PMU, No fault is observed in the system. In antecedent conditions, 765kV Lalitpur(UP)-Fatehabad(UP) ckt-1 carrying 631MW.	650		GD-1	
4	NR	1) 400kV Agra(UP)-Unnao(UP) 2) 400kV Agra(UP)-Fatehabad(765kV) ckt-1 3) 400kV Agra(UP)-Agra(PG)	Uttar Pradesh	UP	5-Oct-19	13:10	5-Oct-19	16:01	02:51	400kV Agra(UP)-Unnao(UP), 400kV Agra(UP)-Fatehabad(765kV) ckt-1 & 400kV Agra(UP)-Agra(PG) tripped on B-N fault. All lines tripped on operation of Zone2 protection. As per PMU, B-N fault with delayed clearance is observed. In antecedent conditions, 400kV Agra(UP)-Unnao(UP), 400kV Agra(UP)-Fatehabad(765kV) ckt-1 & 400kV Agra(UP)-Agra(PG) carrying 46MW,40MW & 389MW respectively.	200		GD-1	0.56
5	NR	1) 400kV Sarnath(UP)-Anpara(UP) ckt-1 2) 400kV Sarnath(UP)-Anpara(UP) ckt-2 3) 400kV Sarnath(UP)-Varanasi(PG) ckt-1 4) 400kV Sarnath(UP)-Varanasi(PG) ckt-2 5) 400kV Sarnath(UP)-Azamgarh(UP) 6) 315MVA ICT 1 at 400/220kV Sarnath(UP) 7) 500MVA ICT 2 at 400/220kV Sarnath(UP) 8) 315MVA ICT 3 at 400/220kV Sarnath(UP) 9) 400kV Anpara(UP)-Mau(UP)	Uttar Pradesh	UP & POWERGRID	5-Oct-19	17:54	5-Oct-19	18:50	0:04	400kV Sarnath(UP)-Varanasi(PG) ckt-1 CT busted at 400/220kV Sarnath(UP) caused the operation of Bus bar protection at Sarnath leading to multiple elements tripping at sarnath end. As per PMU, R-N fault is observed in the system. In antecedent conditions, 315MVA ICT 1, 500MVA ICT 2 & 315MVA ICT 3 at 400/220kV Sarnath(UP) carrying 148MW, 227MW & 150MW respectively.	450		GD-1	0.42
6	NR	1) 220kV Dohna(UP)-Rosa(UP) 2) 220kV Dohna(UP)-Bareilly(UP) ckt-1 3) 220kV Dohna(UP)-Bareilly(UP) ckt-2 4) 220kV Dohna(UP)-CB Ganj(UP) 5) 40MW Unit#1 at 220kV Tanakpur(NHPC) 6) 40MW Unit#2 at 220kV Tanakpur(NHPC) 7) 40MW Unit#3 at 220kV Tanakpur(NHPC)	Uttar Pradesh	UP & NHPC	6-Oct-19	19:06	6-Oct-19	20:00	00:54	Black out at Dohna(UP) occurred at 19:06 hrs due to sparking at ICT leading to a load loss of 150 MW. Load revived by 2338Hrs after charging of 220kV Dohna(UP)-CB Ganj(UP). At the same time, All the three units (generating 98 MW) at 220kV Tanakpur(NHPC) also tripped due to heavy jerk. Total generation at 220kV Tanakpur(NHPC) revived by 2000Hrs. As per PMU, three phase fault is observed in the system.	98	150	GD-1	0.68
7	NR	1) 220kV Fatehpur(UP)-Fatehpur(PG) ckt-1 2) 220kV Fatehpur(UP)-Fatehpur(PG) ckt-2 3) 220kV Fatehpur(UP)-Unchahar(NTPC) ckt-1 4) 220kV Fatehpur(UP)-Unchahar(NTPC) ckt-2 5) 220kV Fatehpur(UP)-Allahabad Cantt(UP) 6) 220kV Fatehpur(UP)-Banda(UP) 7) 220kV Fatehpur(UP)-Sirathu(UP)	Uttar Pradesh	UP, POWERGRID & NTPC	6-Oct-19	23:35	7-Oct-19	00:00	00:25	Load loss of 200 MW in UP occurred after tripping of 06 Nos. of 220 KV lines from 220 KV Fatehpur(UP). Load revived after charging of lines from 0000 hrs(220 KV Fatehpur-Banda) to 0200 hrs(220kV Fatehpur(UP)-Fatehpur(PG) ckt-2). As per PMU, Y-N fault is observed in the system. In antecedent conditions, 220kV Fatehpur(UP)-Fatehpur(PG) ckt-1 & 2 carrying 33MW each and 220kV Fatehpur(UP)-Unchahar(NTPC) ckt-1 & 2 carrying 70MW each.	200		GD-1	0.08
8	NR	1) 400kV Agra(PG)-Agra(UP) 2) 800kV HVDC Agra(PG)-BNC(PG) Pole-3 3) 1500MVA 765/400kV ICT 1 at Agra(PG) 4) 1500MVA 765/400kV ICT 2 at Agra(PG)	Uttar Pradesh	POWERGRID & UP	7-Oct-19	13:33	7-Oct-19	14:03	00:30	400kV Agra(PG)-Agra(UP) tripped due to blast in Y-phase LA at Agra(PG) end. At the same time, 800kV HVDC Agra(PG)-BNC(PG) Pole-3 also tripped. As per PMU, Y-N fault with unsuccessful autoreclosing is observed. In antecedent conditions, 1500MVA ICT 1 & 2 carrying 139MW & 137MW respectively, 400kV Agra(PG)-Agra(UP) carrying 175MW and 800kV HVDC Agra(PG)-BNC(PG) Pole-3 carrying 315MW.			GI-2	
9	NR	1) 400kV Anta(NTPC)-Kota(PG) 2) 400kV Kota(PG)-RAPP C ckt-2	Rajasthan	POWERGRID, NTPC & NPCIL	10-Oct-19	7:26	10-Oct-19	20:30	13:04	400kV Anta(NTPC)-Kota(PG) tripped due to fire occurred in R-ph wave trap at Kota(PG) end. At the same time, 400kV Kota(PG)-RAPP C also tripped. As per PMU, Fluctuations observed in the R-phase voltage. In antecedent conditions, 400kV Anta(NTPC)-Kota(PG) & 400kV Kota(PG)-RAPP C ckt-2 carrying 870MW & 31MW respectively.			GI-2	
10	NR	1) 400kV Ataur(UP)-Muzaffarnagar(UP) 2) 315MVA ICT 3 at 400/220kV Muzaffarnagar(UP) 3) 400kV Alaknanda-Muzaffarnagar(UP)	Uttar Pradesh	UP	12-Oct-19	20:11	12-Oct-19	22:53	02:42	400kV Ataur(UP)-Muzaffarnagar(UP) tripped on B-N fault, 36km from Muzaffarnagar end. At the same time, 315MVA ICT 3 & 400 KV Alaknanda-Muzaffarnagar(UP) also tripped due to operation of Bus-bar protection at Muzaffarnagar. As per PMU, B-N fault is observed in the system. In antecedent conditions, 400kV Alaknanda-Muzaffarnagar(UP) & 400kV Ataur(UP)-Muzaffarnagar(UP) carrying 235MW & 89MW respectively.			GI-2	
11	NR	1) 220kV Hissar(PG)-Hissar IA(HVPNL) ckt-1 2) 220kV Hissar(PG)-Hissar IA(HVPNL) ckt-2	Haryana	Haryana & POWERGRID	16-Oct-19	10:40	16-Oct-19	12:45	02:05	220kV Hissar(PG)-Hissar IA(HVPNL) ckt-1 & 2 tripped on operation of distance protection. As per PMU, No fault is observed in the system. In antecedent conditions, 220kV Hissar(PG)-Hissar IA(HVPNL) ckt-1 & 2 carrying 99MW & 102MW respectively.			GI-2	
12	NR	1) 400kV Bus 1 at 400kV Jharkri(SJVNL) 2) 80MVAR Bus reactor at 400kV Jharkri(SJVNL) 3) 400kV Jharkri(SJVNL)-Karcham(JSW) ckt-1 4) 400kV Jharkri(SJVNL)-Panchkula(PG) ckt-1 5) 400kV Jharkri(SJVNL)-Rampur(SJVNL) ckt-1 6) 250MW Unit#4 at Karcham(JSW)	Himachal Pradesh	SJVNL, JSW & POWERGRID	17-Oct-19	12:58	17-Oct-19	14:25	01:27	B-phase bushing of the 80MVAR Bus reactor at 400kV Jharkri(SJVNL) blasted resulting in operation of Bus-bar protection of 400kV Bus 1 at Jharkri(SJVNL). It seems that 250MW Unit#4 at Karcham(JSW) also tripped at the same time. As per PMU, B-N fault is observed in the system. In antecedent conditions, 400kV Jharkri(SJVNL)-Karcham(JSW) ckt-1, 400kV Jharkri(SJVNL)-Panchkula(PG) ckt-1 & 400kV Jharkri(SJVNL)-Rampur(SJVNL) ckt-1 carrying 121MW, 71MW & 171MW respectively.	220		GD-1	
13	NR	1) 220kV Sonipat(PG)-Mohana(HVPNL) ckt-2 2) 315MVA ICT 1 at 400/220kV Sonipat(PG)	Haryana	Haryana & POWERGRID	17-Oct-19	13:55	17-Oct-19	14:42	00:47	315MVA ICT 1 at 400/220kV Sonipat(PG) on directional earth fault protection due to fault At remote end (Between Mohana And Samalkha) which was not Cleared at Mohana end. 220kV Sonipat(PG)-Mohana(HVPNL) ckt-2 also tripped. As per PMU, Y-N fault with delayed clearance is observed. In antecedent conditions, 315MVA ICT 1 at 400/220kV Sonipat(PG) carrying 214MW.	100		GD-1	0.08
14	NR	1) 400kV Agra(UP)-Unnao(UP) 2) 400kV Unnao(UP)-Panki(UP)	Uttar Pradesh	UP	18-Oct-19	5:11	18-Oct-19	06:20	01:09	400kV Unnao(UP)-Panki(UP) tripped on R-N fault. At the same time, 400kV Agra(UP)-Unnao(UP) also tripped. As per PMU, R-N fault with no auto-reclosing is observed. In antecedent conditions, 400kV Unnao(UP)-Panki(UP) & 400kV Agra(UP)-Unnao(UP) carrying 127MW & 40MW respectively.			GI-2	

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					Date	Time	Date	Time						
15	NR	1) 220kV Panipat(BBMB)-Narela(DTL) ckt-1 2) 220kV Panipat(BBMB)-Narela(DTL) ckt-3 3) 220kV Panipat(BBMB)-Panipat TPS(HV/PNL) ckt-1 4) 220kV Panipat(BBMB)-Panipat TPS(HV/PNL) ckt-3 5) 220kV Panipat(BBMB)-Panipat TPS(HV/PNL) ckt-4 6) 220kV Panipat(BBMB)-Chajpur(HV/PNL) ckt-1 7) 220kV Panipat(BBMB)-Chajpur(HV/PNL) ckt-2 8) 220kV Panipat(BBMB)-Dhulkote(BBMB) ckt-1 9) 220kV Panipat(BBMB)-Pipli(BBMB) 10) 450MVA ICT 1 at 400/220kV Panipat(BBMB)	Haryana	BBMB, Haryana & Delhi	19-Oct-19	4:14	19-Oct-19	10:35	06:21	Multiple elements tripped due to tripping of 220kV Bus-1 at 400/220kV Panipat(BBMB). As per PMU, R-N fault followed by Y-N fault is observed in the system. In antecedent conditions, 450MVA ICT 1 at 400/220kV Panipat(BBMB) carrying 152MW.		100	GD-1	0.64
16	NR	1) 220kV Jamalpur(BBMB)-Ganguwal(BBMB) ckt-1 2) 220kV Jamalpur(BBMB)-Jalandhar(BBMB) ckt-1 3) 220kV Jamalpur(BBMB)-Sangrur(BBMB) ckt-1 4) 220kV Jamalpur(BBMB)-Bhakra R(BBMB) ckt-1 5) 220kV Jamalpur(BBMB)-Dhandari(Pun) ckt-2 6) 100MVA 220/66kV ICT 1 at Jamalpur(BBMB) 7) 100MVA 220/66kV ICT 2 at Jamalpur(BBMB) 8) 100MVA 220/66kV ICT 3 at Jamalpur(BBMB) 9) 100MVA 220/132kV ICT 1 at Jamalpur(BBMB) 10) 100MVA 220/132kV ICT 3 at Jamalpur(BBMB) 11) 220kV Bus 1 at Jamalpur(BBMB)	Punjab	BBMB & Punjab	19-Oct-19	12:18	19-Oct-19	17:54	05:36	Flash Of disks Of R-phase jumper Of 100MVA 220/132kV ICT 3 at Jamalpur(BBMB) occurred resulting in tripping of multiple elements. As per PMU, B-N fault is observed in the system. In antecedent conditions, 100MVA 220/66kV ICT 1, 2 & 3 at Jamalpur(BBMB) carrying 71MW, 71MW & 36MW respectively.		180	GD-1	1.01
17	NR	1) 400kV Bus 2 at Nakodar(PSTCL) 2) 400kV Nakodar(PSTCL)-Rajpura TPS(PSTCL) ckt-1 3) 400kV Nakodar(PSTCL)-Makhul(PSTCL) ckt-2 4) 400kV Nakodar(PSTCL)-Jalandhar(PG)	Punjab	Punjab & POWERGRID	21-Oct-19	14:05	21-Oct-19	17:51	03:46	400kV Bus 2 at Nakodar(PSTCL) tripped due to relay maloperation resulting in tripping of 400kV Nakodar(PSTCL)-Rajpura TPS(PSTCL) ckt-1, 400kV Nakodar(PSTCL)-Makhul(PSTCL) ckt-2 & 400kV Nakodar(PSTCL)-Jalandhar(PG). 400kV Bus 1 was already under shutdown for periodic maintenance. As per PMU, No fault is observed in the system. In antecedent conditions, 400kV Nakodar(PSTCL)-Rajpura TPS(PSTCL) ckt-1, 400kV Nakodar(PSTCL)-Makhul(PSTCL) ckt-2 & 400kV Nakodar(PSTCL)-Jalandhar(PG) carrying 238MW, 60MW & 186MW respectively.			GI-2	
18	NR	1) 500MVA ICT 2 at 400/220kV Bamnauli(DTL) 2) 500MVA ICT 3 at 400/220kV Bamnauli(DTL)	Delhi	Delhi	21-Oct-19	18:00	21-Oct-19	18:03	00:03	There is a Bus split arrangement at 400kV Bamnauli because of commissioning of new Bus Bar Protection Scheme. The elements connected to 400kV Bus-1 were 400kV Tuglakabad Ckt-1, 400kV Jhatikra Ckt-II, 500MVA ICT -II & III, 500MVA ICT 2 & ICT 3 at 400/220kV Bamnauli(DTL) due to relay maloperation while working on new Bus Bar Protection scheme. The load of 220kV Najafgarh, 220kV Papankalan-1, 220kV Papankalan-III & 220kV Naraina were running through 500MVA ICT-II & III. As per PMU, No fault is observed in the system. In antecedent conditions, 500MVA ICT 2 & ICT 3 carrying 236MW each.		379	GD-1	0.02
19	NR	1) 400kV Banala(PG)-Hamirpur(PG) 2) 400kV Banala(PG)-Parbati 3 HEP(NHPC) 3) 400kV Parbati 3 HEP(NHPC)-Sainj HEP(HP) 4) 400kV Parbati 2 HEP(NHPC)-Sainj HEP(HP) 5) 130MW Unit#2, #3 at Parbati 3 HEP(NHPC) 6) 50MW Unit#1, #2 at Sainj HEP(HP)	Himachal Pradesh	POWERGRID, NHPC & HP	21-Oct-19	18:29	21-Oct-19	19:03	00:34	400kV Banala(PG)-Hamirpur(PG) tripped on Y-N fault. Due to loss of the only evacuation line (400kV Banala-Hamirpur line) All units of Parbati complex tripped on Over speed. As per PMU, Y-N fault with no auto-reclosing is observed. In antecedent conditions, 400kV Banala(PG)-Hamirpur(PG) carrying 499MW & Parbati 3 HEP(NHPC) generating 352MW.	500		GD-1	
20	NR	1) 220kV Dhauliganga(NHPC)-Pithoragarh(PG) 2) 220kV Dhauliganga(NHPC)-Bareilly(UP)	Uttarakhand	NHPC, POWERGRID & UP	23-Oct-19	11:35	23-Oct-19	12:31	00:56	220kV Dhauliganga(NHPC)-Pithoragarh(PG) tripped due to DT received at Pithoragarh end. At the same time, 220kV Dhauliganga(NHPC)-Bareilly(UP) tripped on overvoltage. As per PMU, B-N fault is observed in the system. In antecedent conditions, No generation was there in 220kV Dhauliganga(NHPC).			GI-2	
21	NR	1) 220kV Panipat(BBMB)-Narela(DTL) ckt-1 2) 220kV Panipat(BBMB)-Narela(DTL) ckt-2 3) 220kV Panipat(BBMB)-Narela(DTL) ckt-3 4) 220kV Panipat(BBMB)-Panipat TPS(HV/PNL) ckt-1 5) 220kV Panipat(BBMB)-Panipat TPS(HV/PNL) ckt-2 6) 220kV Panipat(BBMB)-Panipat TPS(HV/PNL) ckt-3 7) 220kV Panipat(BBMB)-Panipat TPS(HV/PNL) ckt-4 8) 220kV Panipat(BBMB)-Chajpur(HV/PNL) ckt-1 9) 220kV Panipat(BBMB)-Dhulkote(BBMB) ckt-1 10) 220kV Panipat(BBMB)-Dhulkote(BBMB) ckt-2 11) 220kV Panipat(BBMB)-Pipli(BBMB) 12) 450MVA ICT 1 at 400/220kV Panipat(BBMB)	Haryana	BBMB, Haryana & Delhi	23-Oct-19	17:56	23-Oct-19	18:34	00:38	Multiple elements tripped due to tripping of operation of Bus bar protection at 400/220kV Panipat(BBMB). As per PMU, B-N fault is observed in the system.		150	GD-1	0.10
22	NR	1) 220kV Bairasui(NHPC)-Jassure(HP) 2) 220kV Bairasui(NHPC)-Pong(BBMB)	Himachal Pradesh	POWERGRID, NHPC, HP & BBMB	27-Oct-19	21:34	27-Oct-19	22:47	01:13	220kV Bairasui(NHPC)-Jassure(HP) & 220kV Bairasui(NHPC)-Pong(BBMB) tripped on three phase fault. As per PMU, No fault is observed in the system. In antecedent conditions, No generation was there in 220kV Bairasui(NHPC).			GI-2	

Western Region-Event Report for October 2019

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 Unserved (MU)
				Date	Time	Date	Time	Time					
1	WR	Tripping of 1.400kV Chorania Bus 2 2.400/220kV Chorania ICT 3 3.400kV Chorania BR-2 4.400kV Amrelli-Chorania 1 5.400kV Asoj-Chorania 2 6.400kV Bhachau-Chorania 1 7.400kV Chorania-Charal 1 8.400kV Kasor-Chorania 1	GETCO	01-10-2019	09:15	01-10-2019	10:53	01:38	At 400/220 kV Chorania s/s, B phase fault occurred on Asoj 2 feeder. During the fault, heavy sparking occurred in CB Pre Insertion Resistor(PIR) and resulted Bus 2 Bus bar protection operation causing tripping of all the connected elements.	Nil	Nil	GI-2	Nil
2	WR	Tripping of 1.220 kV Gwalior- Gwalior2 (MP) 1&2 2.2220 kV Gwalior- Mahalgaon 2	PGCIL	02-10-2019	02:55	02-10-2019	03:42	00:47	At 765/400/220 kV Gwalior(PG) s/s, R phase LA of 220 kV Gwalior2 (MP) feeder failed and resulted in tripping of the line. 220 kV Gwalior-Gwalior(MP) 1 and 220 kV Gwalior-Mahalgaon(MP) 2 tripped only from MPPTCL end.	Nil	Nil	GI-1	Nil
3	WR	Tripping of 1.400/220 kV Parli ICTs 1,2&3 2.220 kV Old GCR Parli-Harangul 3.220 kV Parli-Murud 4.220 kV Parli-Hingoli 5.220/132 kV Parli ICTs 1,2&3 6.220 kV Parli- Old GCR Parli Ckts 2,3&4	MSETCL	02-10-2019	11:28	02-10-2019	12:31	01:03	At 220 kV old GCR Parli, B phase LA of 220 kV Harangul failed and for the through fault BB protection operated at 220 kV Parli s/s and all the elements connected to the 220 kV Bus 1 and 2 tripped.	Nil	Nil	GI-1	Nil
4	WR	Tripping of 1.400 kV RGPPL Bus 1 2.400 kV RGPPL-Nagothane 1 3.RGPPL-3B along with WHRB	RGPPL	04-10-2019	22:07	04-10-2019	22:55	00:48	400kV RGPPL-Nagothane-2 tripped at Nagothane end only, on D/T receipt from RGPPL end at 20:48hrs. As intimated by RGPPL, the trip coil had DC supply problem leading to mal-operation of O/V relay and sent D/T to remote end. But breaker at RGPPL remained closed as trip coil was faulty. At 400 kV RGPPL gas power station, while opening the isolator of 400 kV Nagothane 2, sparking was observed and it led to the operation of LBB and tripping of all the main bays of 400 kV Bus 1. 400 kV Nagothane 1 tripped at Nagothane end only on DT receipt	268	Nil	GI-2	Nil
5	WR	Tripping of 1.765 kV Bhopal 240MVAr BR 2.765 kV Bhopal Bus 2	Sterlite	04-10-2019	09:03	04-10-2019	10:00	00:57	At 765/400 kV Bhopal s/s, ICT-1 tripped at 07:25Hrs due to 400 kV side Y phase LA damage. 706 Bay(ICT-2 Main Bay) was already out of service due to SF6 leakage. 707 Bay(765 kV bus reactor main bay) tripped at 09:03 Hrs due to DC Earth Fault. Since the Bus 2 was connected to Bus 1 only through BR bays, Bus 2 became dead.	Nil	Nil	GI-2	Nil
6	WR	Tripping of 1.220 kV Vapi Bus 1 2.220 kV Vapi- Bhilosa 3.220 kV Vapi- Bhilad 2&3 4.220 kV Vapi- Sayali s/c 5.220 kV Vapi- Vapi(GETCO) s/c 6.220 kV Vapi- Magarwada 1 7.400/220 kV Vapi ICTs 1&3	PGCIL	04-10-2019	22:53	05-10-2019	00:20	01:27	At 400/220 kV Vapi s/s, while charging 220 kV Bhilosa ckt, LBB operated causing tripping of all the elements connected to 220 kV Vapi Bus 1	Nil	Nil	GI-1	Nil
7	WR	Tripping of 1.400 kV Bhilai Bus 1 2.400/220 kV Bhilai ICT 3 3.400 kV Bhilai-Raipur	CSPTCL	10-10-2019	20:57	10-10-2019	23:21	02:24	At 400 kV Bhilai S/s, B-ph Tie CT of Raipur Bay blasted causing Bus 1 BB protection operation. 400kV Bus -1 at Bhilai along with 400kV Bhilai-Raipur line & Bhilai 400/220kV ICT-3 tripped during the event	Nil	Nil	GI-2	Nil
8	WR	Tripping of 1.400kV VSTPS-Satna-1, 2.400kV VSTPS-Jabalpur-2 3.400kV VSTPS-ESSAR Mahan 4.400kV VSTPS-Sasan 5.VSTPS HVDC feeder 2 6.400/132 kV 200MVA VSTPS ICT1 7.400kV Sasan-Rewa 8.332kV VSTPS-Waidhan-2 9.VSTPS Unit 1 (210MW) 10.VSTPS Unit 7 (500MW)	NTPC	13-10-2019	10:40	13-10-2019	11:26	00:46	At 400 kV VSTPS,400/132 kV ICT 1 tripped on differential protection operation due to internal fault. R phase LA and Bushing got damaged. The flames due to burning of the transformer created B phase fault in 400 kV Bus 3 and all the connected elements tripped on BB protection operation.	547	Nil	GI-2	Nil
9	WR	Tripping of 1.220 kV Mapusa-Ponda 2.220 kV Amona-Ponda 1 3.220 kV Mapusa-Amona	Goa	16-10-2019	16:08	16-10-2019	17:07	00:59	220 kV Mapusa-Ponda and 220 kV Amona Ponda 1 tripped on B phase fault.220 kV Mapusa-Amona also tripped during the event.	Nil	200	GI-1	0.0500
10	WR	Tripping of 1.220/110 kV 100 MVA Ponda ICT 2 2.220/110 kV 100 MVA Ponda ICT 3 3.220/110 kV TIVIM ICT 3	Goa	16-10-2019	15:40	16-10-2019	16:00	00:20	Due to the fault on 110kV Timim-Ponda 1, 110kV Timim-Ponda 2, 220/110 kV Tivim ICT 3 and 220/110kV Ponda ICTs 2&3 tripped. Since Kadamba S/s is fed from 110kV Timim-Ponda 1&2, the entire loads of Kadamba S/s was affected alongwith part load of Ponda S/s.	Nil	100	GI-1	0.0300
11	WR	Tripping of 1.220 kV Bhuj-Dayapar 2	INOX	18-10-2019	16:51	20-10-2019	13:32	20:41	220kV Bhuj-Dayapar 1 was under shutdown and 220 kV Bhuj-Dayapar 2 tripped on Y phase fault resulting in blackout of 220 kV Dayapar s/s	0.49	Nil	GD-1	Nil
12	WR	Tripping of 1. 400 kV Indirasagar Bus 2 2.400 kV Indirasagar- Indore 2 3.400 kV Indirasagar- Satpura 1	MPPGCL	18-10-2019	20:53	18-10-2019	22:51	01:58	At 400 kV Indrasagar, while withdrawing unit-7, 400kV Bus-2 tripped on maloperation of 410 bay (Unit-7)LBB.	Nil	Nil	GI-2	Nil

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 Unserved (MU)
				Date	Time	Date	Time	Time					
13	WR	Tripping of 1.220 kV Kala- New Kharadpada 1&2 2.220 kV Kala-Khadoli 1&2 3. 220kV New Kharadpada Bus 2	PGCIL	22-10-2019	15:31	22-10-2019	22:39	07:08	At 15:31 Hrs, 220 kV Kala-Khadoli 1 and 220 kV Kala-New Kharadpada 1 tripped on R-E fault and R-B fault respectively. At 15:34 Hrs 220 kV Kala- Khadoli 2 and 220 kV Kala- New Kharadpada 2 tripped on R phase fault. 220 kV New Kharadpada Bus 2 tripped due to damaged B phase conductor.	Nil	100	GI-1	0.7133
14	WR	Tripping of 1.400 kV Amreli Bus 1 2.400 kV Ameli- Chorania 1 3.400 kV Amreli- Jetpur 1 4.400/220 kV 315 MVA Amreli ICT 3 5.400 kV 50 MVAR Bus reactor 1	GETCO	25-10-2019	11:21	25-10-2019	11:56	00:35	At 400/220 kV Amreli s/s, while carrying out testing works in 400/220 kV ICT-2, LBB protection operated resulting in the tripping of 400kV Bus 1 and its associated elements.	Nil	Nil	GI-2	Nil
15	WR	Tripping of 1.220 kV Ponda Bus 1 2.220 kV Mapusa-Ponda 1 3.220 kV Amona-Ponda 2&3 4.220 kV Mahalakshmi-Amona 5.220 kV Tillari-Amona	Goa	25-10-2019	09:01	25-10-2019	09:26	00:25	20kV Ponda Bus 1 tripped on R-phase fault along with the connected elements. 220kV Mahalakshmi-Amona and 220kV Tillari-Amona also tripped during the event.	Nil	100	GI-1	0.0417
16	WR	Tripping of 1.400 kV Chandrapur Bus 1 2.400 kV Chandrapur-Bhadrawati 2&3 3.400 kV Chandrapur- Chandrapur(2) -1 4.400 kV Chandrapur- Khaperkheda 1 5.400 kV Chandrapur GCR HVDC 2 6. 500 kV Chandrapur HVDC Pole 1&2 7.400/220 kV Chandrapur ICT 1 8.210 MW Chandrapur Unit 3 9.500 MW Chandrapur Unit 5&6	MSETCL	25-10-2019	01:03	25-10-2019	02:55	01:52	At 400 kV Chandrapur(MH) power station, LBB of 90MVA station transformer-4 operated causing tripping of 400kV Bus 1 along with all the connected elements.	960	Nil	GI-2	Nil
17	WR	Tripping of 1.220 kV Kadana Bus 1 2.220 kV Kadana-Modasa 1&2 3.220 kV Kadana-Godhra s/s 4.220 kV Kadana-Lunavada 5.60 MW Kadana Unit 2&3	GSECL	26-10-2019	04:48	26-10-2019	06:28	01:40	At 220 kV Kadana hydro power station, 220 kV Bus 1 tripped due to fire in Y Phase PT resulting in tripping of all the elements connected to the 220 kV Bus 1.	120	Nil	GI-1	Nil
18	WR	Tripping of 1.400 kV Kolhapur Bus 2 2.400 kV Kolhapur- Kolhapur 2 3.400 kV Kolhapur- Solapur(PG) 4.400 kV Kolhapur-Alkud 5.400 kV Kolhapur 125 MVA BR 6.400/220 kV 500 MVA Kolhapur ICT	MSETCL	30-10-2019	13:15	30-10-2019	13:28	00:13	At 13:15hrs emergency shut down was facilitated on 400kV Kolhapur (MH)-Solapur (PG) to attend isolator sparking at Kolhapur end. The CB was hand tripped but R-phase of CB got stucked up. Due to severe sparking Bus-2 BB protection operated causing tripping of all the associated elements.	Nil	Nil	GI-2	Nil
19	WR	Tripping of 1.220 kV Chandrapur-SICOM 1&2 2.220 kV SICOM-CFP	MSETCL	31-10-2019	15:58	31-10-2019	17:07	01:09	At 220 kV SICOM s/s, R phase CT of 220 kV TBC blasted and resulted in tripping of 220 kV SICOM Main Bus alongwith the connected elements.	Nil	40	GD-1	0.0357

Disclaimer : The Above details are based on the preliminary/flash report of the event and may change after finalisation of the detailed report.The quantum of load/generation loss is based on details given by SLDC and utility and may vary later with updated details.

Southern Region-Grid Event Report for October 2019

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 Unserved (MU)
				Date	Time (Hrs)	Date	Time (Hrs)	Time					
1	SR	All elements connected to 220kV Bus-1 and Bus-2 at Lower Sileru.	APGENCO	22-Oct-19	05:20	22-Oct-19	05:35	15 mins	Complete outage of 220kV Lower Sileru GS of APGENCO : Triggering incident was fault in 220kV Lower Sileru – Donkarai line. LBB of both bus-1 and bus-2 operated resulting in complete outage at 220kV Lower Sileru generating station.	NIL	NIL	GD-1	---
2	SR	i. 220kV Ghanapur - Pocharam feeder ii. 220kV Ghanapur - Nagole ckt-1 iii. 220kV Ghanapur - Hayathnagar ckt-1 iv. 220kV Ghanapur- Chandrayangutta ckt-1 v. 400/220kV Ghanapur ICT-1 & 3 vi. 220kV/132kV Ghanapur ICT-1&3	TSTRANSCO	9-Oct-19	01:17	9-Oct-19	01:59	42 mins	Tripping 220kV Bus-1 at 400/220kV Ghanapur station: Triggering incident was B phase to Earth fault in 220kV Ghanapur - Pocharam line due to lightning. Bus bar protection of 220kV Bus-1 at Ghanapur station operated due to operation of Breaker Failure Relay(BFR) on 220kV Ghanapur-Pocharam feeder at Ghanapur SS. BFR operated as fault current was persisting even after 200msec. There was lightening stroke on the feeder and disc flash over was observed. All elements connected to 220kV Bus-1 at Ghanapur tripped.	----	26 MW	GI-1	----
3	SR	i. 400kV Talaguppa -Hassan line	KPTCL	12-Oct-19	02:23	12-Oct-19	11:21	8 hrs 58 mins	Complete loss of supply at 400kV side of 400/220kV Talaguppa station of KPTCL: Triggering incident was insulator decapping and snapping of conductor at Location 428 of 400kV Talaguppa – Hassan line and the line tripped on Zone-1, distance protection. Auto reclose was attempted but locked out due to persistent fault. Since 400kV Talguppa – Nelamangala line was under LC in the antecedent, on tripping of the only connected line i.e 400kV Talaguppa – Hassan line, 400kV Talaguppa Bus-1 got discharged. 220 side was not affected.	----	----	GI-2	----
4	SR	i. 230kV Alamathy - Thiruverkadu feeder ii. 230kV Alamathy - Manali line-2 iii. 230kV Alamathy - OPG_Alamathy line-1 iv. 230kV Alamathy - NCTPS feeder v. 230kV Alamathy - Mosur feeder vi. 400/230kV ICT-3 and ICT-5	TANTRANSCO	13-Oct-19	11:29	13-Oct-19	12:41	1 Hr 12 mins	Tripping of 230kV Bus-A at 400/230kV Alamathy station of TANTRANSCO: Triggering incident was transient fault in 230kV Alamathy - OPF_Alamathy line-2 for which auto reclose was successful at Alamathy end. Simultaneously, R-phase jumper cut occurred in 230kV Alamathy -OPG_Alamathy line-1 due to overloading. This resulted in operation of bus bar protection of Bus-A and all elements connected to Bus-A tripped.	----	----	GI-1	----

Eastern Region-Grid Event Report for October 2019

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	HVDC Talcher Kolar pole I	ISTS	3-Oct-19	14:05	3-Oct-19	17:45	03:40	At 14:05 hrs on 03-10-19, HVDC Talcher Kolar pole I tripped resulting reduction of power flow from 1500 MW to 1000 MW. At the time of incident there was no generation at GMR. So 40 MW generation reduction occurred at JITPL. Pole I was deblocked at 17:45 hrs.	40	0	GI-II	0.0000
2	ER	220 kV Budipadar –Korba – II 220 kV Budipadar –Korba – III 220 kV Budipadar –Raigarh S/C 220 kV Budipadar –Tarkera – II 220 kV Budipadar –Lapanga– D/C 220 kV Budipadar –IB – II & IV 220/132 kV ICT at Budipadar 220 kV bus II at Budipadar	OPTCL	8-Oct-19	19:26	8-Oct-19	19:53	00:27	At 18:04 hrs, 220 kV Budipadar – Korba – II and 220 kV Budipadar – Raigarh S/C tripped at 18:04 hrs on Y-B fault. At 18:17 hrs 220 kV Budipadar – Korba – III tripped due to Y-N fault. At 18:20 hrs. 220 kV Budipadar –Tarkera – II tripped. Fault was cleared within 100 ms. While charging this line 220 kV Budipadar bus II became dead at 19:26 hrs, tripping all elements connected to bus II i.e. 220 kV Budipadar –Lapanga– D/C, 220 kV Budipadar –IB – II & IV and 220/132 kV ICT at Budipadar.	0	0	GI-I	0.0000
3	ER	400KV Angul –JITPL D/C	ISTS	17-Oct-19	08:11	17-Oct-19	08:31	00:20	400KV Angul –JITPL D/C tripped at 08:11 hrs while availing scheduled Shutdown of 400KV Angul –JITPL II Generation loss of 470MW occurred of JITPL Unit #2 due to loss of evacuation path.	470	0	GD-I	0.0000
4	ER	220 kV FSTPP – Lalmatia S/C 132 kV KhSTPP – Lalmatia S/C	JUSNL	22-Oct-19	11:55	22-Oct-19	15:27	03:32	At 11:55 Hrs, 220 kV FSTPP Lalmatia S/C tripped due to B-N Fault. At the same time, 132 kV KhSTPP-Lalmatia S/C also tripped, leading to a load loss of 44 MW. 132 kV KhSTPP - Lalmatia S/C was charged at 12:08 but tripped again while taking charging attempt of 220 kV FSTPP-Lalmatia s/c at 12:20 Hrs.	0	44	GD-I	0.1555
5	ER	220 KV Sadaipalli – New Bargarh S/C	OPTCL	25-Oct-19	04:44	25-Oct-19	05:36	00:52	At 04:44 Hrs, B phase jumper of Bus II-isolator of 220 KV Sadaipalli – New Bargarh S/C snapped at Sadaipalli end and caught fire. For safety reason, 220 KV Bolangir (PG)-Sadaipalli was hand-tripped on emergency basis. Consequently, 220/132 KV Sadaipalli S/S became dead and load loss of 111 MW occurred in downstream areas of Sadaipalli.	0	111	GD-I	0.0962
6	ER	400 kV Binaguri – Rangpo – II 220 kV JLHEP – New Melli D/C	ISTS	26-Oct-19	07:27	26-Oct-19	07:37	00:10	At 07:27 hrs, 400 kV Binaguri – Rangpo – II tripped due to B-N fault. At same time, 220 kV Jorethang – New Melli D/C tripped from Jorethang end only on DEF protection resulting tripping of running unit #1 due to loss of evacuation path.	45	0	GD-I	0.0000
7	ER	400 kV Teesta III - Dikchu S/C 400 kV Teesta III - Kishanganj S/C	ISTS	26-Oct-19	15:43	26-Oct-19	16:13	00:30	At 15:43 hrs Unit 3 and 6 at Teesta III tripped on neutral overcurrent protection, and 400 KV Dikchu - Teesta III line, 400 KV Kishanganj - Teesta III tripped on overvoltage protection. All this led to loss of voltage at 400 KV Teesta III with 400 MW generation loss. Also, at this moment Dikchu unit 1 tripped @48 MW on neutral overcurrent protection on generator transformer.	448	0	GD-I	0.0000

North Eastern Region-Grid Disturbances Report for October 2019

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 Lekhi - Pare line.	DoP, AP & NEEPCO	01-Oct-19 12:27	01-Oct-19 12:55	28 mins	Lekhi and Nirjuli areas of Arunachal Pradesh Power System and part of Gohpur load of Assam Power System were connected with rest of NER Grid through 132 kV Lekhi - Pare line. 132 kV Lekhi - Itanagar Line was kept open due to CT problem at Lekhi end and 132 kV Bus Coupler at Gohpur was kept opened to avoid overloading of 132 kV Pare - Lekhi Line. At 12:27 Hrs on 01.10.19, 132 kV Lekhi- Pare line tripped. Due to tripping of this element, Lekhi and Nirjuli areas of Arunachal Pradesh Power System and part of Gohpur load of Assam Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	34	0.000	0.016	GD 1
2	NER	132 kV Balipara - Tenga line	NEEPCO & DoP, AP	02-Oct-19 10:37	02-Oct-19 11:08	31 mins	Khupi area of Arunachal Pradesh Power System and Dikshi Power Station were connected with rest of NER Grid through 132 kV Balipara - Tenga line. At 10:37 Hrs on 02.10.19, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System and Dikshi Power Station were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	34	11	0.017	0.005	GD 1
3	NER	132 kV Lekhi - Itanagar line	DoP, AP	03-Oct-2019 13:29:00	03-Oct-2019 13:35:00	6 mins	Lekhi and Nirjuli areas of Arunachal Pradesh Power System were connected with rest of NER Grid through 132 kV Lekhi - Itanagar line. 132 kV Lekhi - Pare Line was under Emergency Shutdown since 11:11 Hrs on 03.10.19 and 132 kV Gohpur - Nirjuli Line was kept open for over-loading of 132 kV Lekhi - Itanagar line. At 13:29 Hrs on 03.10.19, 132 kV Lekhi - Itanagar line tripped. Due to tripping of this element, Lekhi and Nirjuli areas of Arunachal Pradesh Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	20	0.000	0.002	GD 1

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
4	NER	132 kV Lekhi - Itanagar line	DoP, AP	03-Oct-2019 15:18:00	03-Oct-2019 16:05:00	47 mins	Lekhi and Nirjuli areas of Arunachal Pradesh Power System were connected with rest of NER Grid through 132 kV Lekhi - Itanagar line. 132 kV Lekhi - Pare Line was under Emergency Shutdown since 11:11 Hrs on 03.10.19 and 132 kV Gohpur - Nirjuli Line was kept open for over-loading of 132 kV Lekhi - Itanagar line. At 15:18 Hrs on 03.10.19, 132 kV Lekhi - Itanagar line tripped. Due to tripping of this element, Lekhi and Nirjuli areas of Arunachal Pradesh Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	22	0.000	0.017	GD 1
5	NER	132 kV Badarpur - Panchgram line and 132 kV Hailakandi - Panchgram line	POWERGRID & AEGCL	04-Oct-19 18:21	04-Oct-19 18:39	18 mins	Panchgram area of Assam Power System was connected with the rest of NER Grid through 132 kV Badarpur - Panchgram line and 132 kV Hailakandi - Panchgram line. (132 kV Lumshong-Panchgram line kept open for SPS-1 requirement and 132 kV Srikona-Panchgram was under shutdown due to tower collapse). At 18:21 Hrs on 04.10.19,132 kV Badarpur - Panchgram line and 132 kV Hailakandi - Panchgram line tripped. Due to tripping of these elements, Panchgram area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	62	0.000	0.019	GD 1
6	NER	132 kV Balipara - Tenga line	NEEPCO & DoP, AP	04-Oct-19 22:11	04-Oct-19 22:29	18 mins	Khupi area of Arunachal Pradesh Power System and Dikshi Power Station were connected with rest of NER Grid through 132 kV Balipara - Tenga line. At 22:11 Hrs on 04.10.19, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System and Dikshi Power Station were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	12	16	0.004	0.005	GD 1
7	NER	132 kV Balipara - Tenga line	DoP, AP, NEEPCO	08-Oct-19 12:18	08-Oct-19 12:54	36 mins	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line (Owner- NEEPCO & DoP, AP). At 12:18 Hrs on 08.09.19, 132 kV Balipara - Tenga line tripped. Due to tripping of these elements, Khupi area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	22	0.000	0.013	GD 1

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 MIU	Load Loss in MIU	Category as per CEA Grid Standards
8	NER	132 kV Balipara - Tenga line.	NEEPCO & DoP, AP	09-Oct-19 13:49	09-Oct-19 14:00	11 mins	Khupi area of Arunachal Pradesh Power System and Dikshi Power Station were connected with rest of NER Grid through 132 kV Balipara - Tenga line. At 13:49 Hrs on 09.10.19, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System and Dikshi Power Station were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	11	29	0.002	0.005	GD 1
9	NER	132 kV Balipara - Tenga line	NEEPCO & DoP, AP	10-Oct-19 22:36	43748.98333	1 hrs	Khupi area of Arunachal Pradesh Power System and Dikshi Power Station were connected with rest of NER Grid through 132 kV Balipara - Tenga line. At 22:36 Hrs on 10.10.19, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System and Dikshi Power Station were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	11	14	0.010	0.029	GD 1
10		132 kV Along-Pasighat line	DoP, AP	11-Oct-2019 22:14:00	11-Oct-2019 22:25:00	0.007639	Pasighat area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Along-Pasighat line (Owner- DoP, Arunachal Pradesh). At 22:14 Hrs on 11.10.19, 132 kV Along-Pasighat line tripped. Due to tripping of this element, Pasighat area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	12	0.000	0.002	GD 1
11	NER	220 kV Rangia(New)-BTPS D/C, 132 kV Rangia (New) - Rangia (old) D/C, 132 kV Rangia-Nalbari ,132 kV Rangia-Bornagar, 132 kV Bornagar-Dhaligaon and 132 kV Motanga(Bhutan) - Rangia (old)	AEGCL	12-Oct-19 13:53	12-Oct-19 15:30	1 hrs 37 mins	Rangia Area of Assam Power System were connected with the rest of NER Grid through 220 kV Rangia(New)-BTPS D/C, 132 kV Rangia (New) - Rangia (old) D/C,132 kV Rangia-Nalbari ,132 kV Rangia-Bornagar,132 kV Bornagar-Dhaligaon and connected with Bhutan through 132 kV Motanga (Bhutan) - Rangia(old) line. 132 kV Rangia - Rowta line, 132 kV Sipajhar - Rowta line and 132 kV Kamalpur - Sisugram line were kept opened for system requirement. At 13:53 Hrs on 12.10.19,220 kV Rangia(New)-BTPS D/C, 132 kV Rangia (New) - Rangia (old) D/C, 132 kV Rangia-Nalbari ,132 kV Rangia-Bornagar, 132 kV Bornagar-Dhaligaon and 132 kV Motanga(Bhutan) - Rangia (old) lines tripped due to bus dead at Rangia(old) and Rangia(New). Due to tripping of these elements, Rangia Area of Assam Power System were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	50	0.000	0.081	GD 1

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
12	NER	132 kV Balipara - Tenga line	NEEPCO & DoP, AP	14-Oct-19 12:22	14-Oct-19 12:32	10 mins	Khupi area of Arunachal Pradesh Power System and Dikshi Power Station were connected with rest of NER Grid through 132 kV Balipara - Tenga line. At 12:22 Hrs on 14.10.19, 132 kV Balipara - Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System and Dikshi Power Station were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	11	9	0.002	0.002	GD 1
13	NER	132 kV Badarpur - Panchgram line and 132 kV Hailakandi - Panchgram line	POWERGRID & AEGCL	15-Oct-19 12:17	15-Oct-19 12:30	13 mins	Panchgram area of Assam Power System was connected with rest of NER Grid through 132 kV Badarpur - Panchgram line and 132 kV Hailakandi - Panchgram line. 132 kV Panchgram - Srikona line is under outage since 16:56 Hrs on 14.06.2018 due to tower collapse and 132 kV Lumshnong - Panchgram line kept Idle charged from Panchgram end for SPS-1. At 12:17 Hrs on 15.10.19, 132 kV Badarpur - Panchgram line and 132 kV Hailakandi - Panchgram line tripped. Due to tripping of these elements, Panchgram area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	43	0.000	0.009	GD 1
14	NER	132 kV Ranganadi - Ziro line	NEEPCO	15-Oct-19 15:19	15-Oct-19 15:57	38 mins	Ziro area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi - Ziro line. At 15:19 Hrs on 15.10.19, 132 kV Ranganadi - Ziro line tripped. Due to tripping of this element, Ziro area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	21	0.000	0.013	GD 1
15	NER	132 kV Loktak- Ningthoukhong line	MSPCL	15-Oct-19 15:26	15-Oct-19 15:46	20 mins	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak- Ningthoukhong line. 132 kV Imphal - Ningthoukhong line and 132 kV Kakching - Kongba line kept open for over-loading of 132 kV Loktak- Ningthoukhong line. At 15:26 Hrs on 15.10.19, 132 kV Loktak- Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	26	0.000	0.009	GD 1
16	NER	220 kV BTPS - Rangia 1 & 2 lines, 132 kV Rangia-Motanga line and 132 kV Dhaligaon-Bornagar line	POWERGRID & AEGCL	16-Oct-19 12:06	16-Oct-19 12:16	10 mins	Rangia, Nalbari, Bornagar and Sipajhar areas of Assam Power System were connected with rest of NER Grid through 220 kV BTPS - Rangia 1 & 2 lines, 132 kV Rangia-Motanga line and 132 kV Dhaligaon-Bornagar line. 132 kV Rangia-Kamalpur 1&2 lines, 132 kV Dhaligaon Nalbari line and 132 kV Sipajhar- Rowta line and 132 kV Rangia - Rowta line were kept open due to system requirement. At 12:06 Hrs on 16.10.19, 220 kV BTPS - Rangia 1 & 2 lines, 132 kV Rangia-Motanga line and 132 kV Dhaligaon-Bornagar line tripped. Due to tripping of these elements, Rangia, Nalbari, Bornagar and Sipajhar areas of Assam Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	106	0.000	0.017	GD 1

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
17	NER	132 kV Ziro - Daporijo line	POWERGRID	16-Oct-19 14:34	16-Oct-19 16:23	1 hrs 49 mins	Daporijo area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ziro - Daporijo line. At 14:34 Hrs on 16.10.19, 132 kV Ziro - Daporijo line tripped. Due to tripping of this element, Daporijo area of Arunachal Pradesh Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	21	0.000	0.038	GD 1
18	NER	132 kV Loktak- Ningthoukhong line	MSPCL	17-Oct-19 08:34	17-Oct-19 08:42	8 mins	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak- Ningthoukhong line. 132 kV Imphal - Ningthoukhong line and 132 kV Kakching - Kongba line kept open for over-loading of 132 kV Loktak- Ningthoukhong line. At 08:34 Hrs on 17.10.19, 132 kV Loktak- Ningthoukhong line tripped. Due to tripping of this element, Ningthoukhong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	29	0.000	0.004	GD 1
19	NER	132 kV Badarpur - Kolasib line and 132 kV Aizawl - Kolasib line	POWERGRID	18-Oct-19 12:25	18-Oct-19 13:06	41 mins	Kolasib area of Mizoram Power System and Tural Power Station were connected with rest of NER Grid through 132 kV Badarpur - Kolasib line and 132 kV Aizawl - Kolasib line. At 12:25 hrs on 18.10.19, 132 kV Badarpur - Kolasib line and 132 kV Aizawl - Kolasib line tripped. Due to tripping of these elements, Kolasib area of Mizoram Power System and Tural Power Station were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	59	9	0.040	0.006	GD 1
20		132 kV Melriat(PG)-Zuangtui line	POWERGRID	24-Oct-19 01:15	24-Oct-19 01:47	32 mins	Zuangtui area of Mizoram Power System was connected with rest of NER Grid through 132 kV Melriat(PG)-Zuangtui line. At 01:15 Hrs on 24.10.19, 132 kV Melriat(PG)-Zuangtui line tripped. Due to tripping of this element, Zuangtui area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	33	0.000	0.018	GD 1
21	NER	132 kV Balipara -Tenga line	NEEPCO & DoP, AP	30-Oct-19 11:43	30-Oct-19 12:05	22 mins	Khupi area of Arunachal Pradesh Power System and Dikshi Power Station were connected with the rest of NER Grid through 132 kV Balipara -Tenga line (Owner- NEEPCO & DoP, Arunachal Pradesh). At 11:43 Hrs on 30.10.2019, 132 kV Balipara - Tenga line tripped. Due to tripping of these elements, Khupi area was separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	10	22	0.003	0.008	GD 1

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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	Kopili Unit 1,2,3 & 4	NEEPCO	07-Oct-19 04:58	07-Oct-19 07:30	2 Hrs 28 mins	Kopili Unit 1, 2, 3 and 4 tripped at 04:58 hrs of 07.10.19 along with 220 kV Misa-Kopili 1 line due to puncture of valve house resulting in flooding of Powerhouse & switchyard. 220 kV Misa - Kopili 2 & 3 lines, 132 kV Kopili - Khandong 2 line and 220/132kV, 160MVA ICT at Kopili hand tripped for safety reason.(Revision schedule from Block No.31 on 07-10-19)	192	0	0.019	0	GI 2
2	NER	Palatana GTG-1	OTPC	07-Oct-19 15:51	07-Oct-19 16:30	39 mins	OTPC GTG-1 tripped at 15:51 Hrs on 07-10-19 due to rotor earth fault. Revision of schedule from Block No.67 on 07-10-19	288	0	0.14	0	GI 2
3	NER	Palatana STG-1 & Module-2	OTPC	07-Oct-19 16:41	07-10-2019 17:15:00	34 mins	OTPC Module-1(STG) & 2(GTG and STG) tripped at 16:41 Hrs on 07-10-19 due fault in ICT-1.Revision is schedule from Block No.71 on 07-10-19	334	0	0.77	0	GI 2
4	NER	AGBPP Unit-7	NEEPCO	09-Oct-19 16:15	09-10-2019 17:00:00	45 mins	AGBPP Unit-3 tripped at 16:15 Hrs on 09.10.2019 due to Class A and Class C tripping.(Revision of schedule from Block No. 69 on 09.09.2019)	20	0	0.01	0	GI 1
5	NER	OTPC GTG-2 & STG 2	OTPC	12-Oct-19 13:30	12-10-2019 14:15:00	45 mins	OTPC GTG-2 & STG 2 tripped at 13:30 Hrs on 12-10-19 due to closing of Fuel gas supply valve.(Revision done from Block No.58 on 12-10-19)	358	0	0.5	0	GI 2
6	NER	BgTTP Unit-3	NTPC	15-Oct-19 05:09	15-10-2019 05:45:00	36 mins	BgTTP Unit-3 tripped at 05:09 Hrs on 15.10.2019 due to Boiler Tube leakage.(Revision of schedule from Block No.24 on 15.10.2019)	108	0	0.07	0	GI 2
7	NER	AGTCCPP Unit-5	NEEPCO	17-Oct-19 09:28	17-Oct-19 10:15	47 mins	AGTCCPP Unit 5 tripped at 09:28 Hrs on 17.10.19 due to exhaust pressure high. (Revision of schedule from Block No 42 on 17.10.19)	17	0	0.01	0	GI 1
8	NER	Doyang Unit 1	NEEPCO	23-Oct-19 17:32	23-Oct-19 18:15	43 mins	Doyang Unit 1 tripped at 17:32 Hrs on 23.10.19 due to Excitation Failure. (Revision of schedule from Block No 74 on 23.10.19).	22	0	0.0157	0	GI 1