

Northern Region-Grid Event Report for June 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 Standards	Energy Unsaved (in MU)
					Date	Time	Date	Time						
1	NR	1) 400 KV Alaknanda GVK(UPC)-Srinagar(UK) (UK) Ckt-1 2) 400 KV Alaknanda GVK(UPC)-Srinagar(UK) (UK) Ckt-2 3) 82.5 MW Alakhanda HEP - UNIT 2 4) 82.5 MW Alakhanda HEP - UNIT 3	UTTRAKHAND	PTCUL, UPPTCL	2-Jun-20	13:08	2-Jun-20	13:45	0:37	400 KV Alaknanda GVK(UPC)-Srinagar(UK) (UK) Ckt-1 & 2 tripped on R-Y fault. At the same time, 400KV Bus 1 along with Unit#2 & Unit#3 at Alaknanda also tripped. As per PMU, R-Y fault is observed in the system. In antecedent conditions, 400 KV Alaknanda GVK(UPC)-Srinagar(UK) (UK) Ckt-1 & 2 carrying 48MW & 46MW respectively. Unit#2 & Unit#3 generating 82MW each.	160	0	GD-1	0
2	NR	1) 400 KV Rajwest(RW)-Kankani (RS) Ckt-1 2) 400 KV Jodhpur-Kankani (RS) Ckt-2	RAJASTHAN	RRVNL	5-Jun-20	11:17	5-Jun-20	13:18	2:01	400 KV Rajwest(RW)-Kankani (RS) Ckt-1 tripped on R-N fault, 1.34 km from Kankani end. At the same time, 400 KV Jodhpur-Kankani (RS) Ckt-2 also tripped on R-N fault. As per PMU, R-N fault with delayed clearance is observed in the system. In antecedent conditions, 400 KV Rajwest(RW)-Kankani (RS) Ckt-1 & 400 KV Jodhpur-Kankani (RS) Ckt-2 carrying 122MW & 40MW respectively.	0	0	GI-2	0
3	NR	1) 220 KV Amargarh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 2) 220 KV Wagoora(PG)-Pampore(PDD) (PDD JK) Ckt-1 3) 220 KV Wagoora(PG)-Pampore(PDD) (PDD JK) Ckt-2	J & K	PDD JK	6-Jun-20	19:02	6-Jun-20	21:20	2:18	Due to inclement weather at 19:02hrs, 220 KV Amargarh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 & 2 tripped on R-N fault. At 19:44hrs, 220 KV Wagoora(PG)-Pampore(PDD) (PDD JK) Ckt-1 & 2, 220KV Pampore-Mirbazar ckt-1 & 2 also tripped. As per PMU, R-Y fault at 19:02hrs & B-N fault at 19:44hrs is observed in the system. In antecedent conditions, 220 KV Amargarh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 & 2 carrying 97MW each. No load loss and generation loss is reported by J&K during tripping. However, J&K demand reduced by around 700MW from 19:00hrs to 19:45hrs due to bad weather.	0	0	GI-2	0
4	NR	1) 220 KV Kishenganga(NH)-Wagoora(PG) (UNDEF) Ckt-1 2) 220 KV Kishenganga(NH)-Wagoora(PG) (UNDEF) Ckt-2 3) 220KV Kishenganga(NH)-Delina(PDD) (PG) Ckt-1 4) 220KV Kishenganga(NH)-Delina(PDD) (PG) Ckt-2	J & K	POWERGRID/PDD JK	6-Jun-20	19:10	6-Jun-20	19:15	0:05	220 KV Kishenganga(NH)-Wagoora(PG) (UNDEF) Ckt-1 & 2, 220KV Kishenganga(NH)-Delina(PDD) (PG) Ckt-1 & 2 tripped from kishenganga end only. As per PMU, R-Y fault is observed in the system. In antecedent conditions, 220 KV Kishenganga(NH)-Wagoora(PG) (UNDEF) Ckt-1 & 2 carrying 43MW each. Generation loss of around 110 MW occur due to loss of evacuation path.	110	0	GD-1	0
5	NR	1) 400/220 kv 500 MVA ICT 2 at Muradnagar_1(UP) 2) 400/220 kv 315 MVA ICT 3 at Muradnagar_1(UP)	UTTAR PRADESH	UPPTCL	7-Jun-20	10:50	7-Jun-20	13:19	2:29	400/220 kv 500 MVA ICT 2 at Muradnagar_1(UP) & 400/220 kv 315 MVA ICT 3 at Muradnagar_1(UP) tripped on earth fault. As per PMU, B-N fault with delayed clearance is observed in the system. In antecedent conditions, 400/220 kv 500 MVA ICT 2 at Muradnagar_1(UP) & 400/220 kv 315 MVA ICT 3 at Muradnagar_1(UP) carrying 73MW & 41MW respectively.	0	110	GD-1	0.28
6	NR	1) 220 KV Wagoora(PG)-Pampore(PDD) (PDD JK) Ckt-2 2) 220 KV Wagoora(PG)-Pampore(PDD) (PDD JK) Ckt-1	J & K	PDD JK	8-Jun-20	18:14	8-Jun-20	19:06	0:52	220 KV Wagoora(PG)-Pampore(PDD) (PDD JK) Ckt-1 & 2 tripped on B-N fault. As per PMU, B-N fault with delayed clearance is observed in the system. 220 KV Wagoora(PG)-Pampore(PDD) (PDD JK) Ckt-1 & 2 carrying 46MW & 47MW respectively.	0	0	GI-2	0
7	NR	1) 400 KV Rajpura-Dhuri (PS) Ckt-2 2) 400 KV Rajpura-Dhuri (PS) Ckt-1	PUNJAB	PSTCL	10-Jun-20	12:52	10-Jun-20	18:01	5:09	400 KV Rajpura-Dhuri (PS) Ckt-1 tripped on B-N fault Current 5.34 KA. Fault Distance 54.6 Km from Rajpura end; tower collapse at location 158-162. At the same time, 400 KV Rajpura-Dhuri (PS) Ckt-2 tripped R-N fault Current 5.30 KA. Fault Distance 56.9 Km from Rajpura end; tower collapse at location 158-162. As per PMU, multiple faults are observed in the system. In antecedent conditions, 400 KV Rajpura-Dhuri (PS) Ckt-1 & 2 carrying 156MW each.	0	0	GI-2	0
8	NR	1) 400 KV Ballabgarh-Maharanibagh (PG) Ckt-1 2) 400 KV Dadr(NT)-Maharanibagh(PG) (PG) Ckt-1	NEW DELHI	POWERGRID	10-Jun-20	17:56	10-Jun-20	19:02	1:06	400 KV Dadr(NT)-Maharanibagh(PG) (PG) tripped on B-N fault, FLR-Dadr-17.1km/15.28KA. At the same time, 400 KV Ballabgarh-Maharanibagh (PG) also tripped on B-N fault, FLR-Balb-26.32km/10.04KA. As per PMU, multiple B-N faults are observed in the system. In antecedent conditions, 400 KV Dadr(NT)-Maharanibagh(PG) & 400 KV Ballabgarh-Maharanibagh (PG) carrying 401MW & 149MW.	0	550	GD-1	0.55
9	NR	1) 220 KV Bhadla(PG)-Saurya Urja(SU) (UNDEF) Ckt-1 2) 220 KV Bhadla(PG)-Saurya Urja(SU) (UNDEF) Ckt-2	RAJASTHAN	POWERGRID/ SAURYA	11-Jun-20	11:59	11-Jun-20	12:42	0:43	Event triggered when R-phase jumper connecting CT to wavetrap broken at Saurya urja (Rajasthan end). Fault in 220KV Bhadla(Ra) – 220KV Saurya Urja # 2 line. 220 KV Bhadla(PG)-Saurya Urja(SU) (UNDEF) Ckt-1 & 2 also tripped. As per PMU, Y-N fault is observed in the system. Generation loss of around 1130MW & 970MW observed in solar connected to Bhadla(PG) & Bhadla(Ra) respectively.	2100	0	GD-1	0
10	NR	1) 800 KV HVDC Kurukshetra(PG) Pole-1 2) 800 KV HVDC Kurukshetra(PG) Pole-2 3) 800 KV HVDC Kurukshetra(PG) Pole-3 4) 800 KV HVDC Kurukshetra(PG) Pole-4	HARYANA	POWERGRID	11-Jun-20	12:20	11-Jun-20	16:33	4:13	All four poles of 800 KV HVDC Champa(PG)-Kurukshetra(PG) tripped due to DC line fault. As per PMU, fluctuations in voltage is observed in the system. In antecedent conditions, 800 KV HVDC Champa(PG)-Kurukshetra(PG) poles carrying 2000MW.	0	0	GI-2	0
11	NR	1) 400 KV Tehri(THDC)-Koteswar(PG) (PG) Ckt-1 2) 765 KV Koteswar-Meerut (PG) Ckt-1 3) 400 KV Tehri(THDC)-Koteswar(PG) (PG) Ckt-2	UTTRAKHAND	POWERGRID	13-Jun-20	14:17	13-Jun-20	15:23	1:06	765KV Meerut-koteswar line 1 tripped at 14:17 hrs due to operation of R phase reactor buchholz relay at Meerut substation. Due to tripping of this line and loss of evacuation path around 700 MW Generation loss occurred at Tehri Complex. As per PMU, No fault is observed in the system. In antecedent conditions, 765KV Meerut-koteswar line 1 carrying 693MW. Generation at Tehri and koteswar was around 510MW and 180MW respectively.	700	0	GD-1	0
12	NR	1) 765 KV Bhadla-Bikaner (PG) Ckt-2 2) 220 KV Bhadla(PG)-Saurya Urja Solar(SU) (Saurya Urja) Ckt-1 3) 220 KV Bhadla(PG)-Saurya Urja Solar(SU) (Saurya Urja) Ckt-2	RAJASTHAN	POWERGRID	13-Jun-20	14:51	13-Jun-20	15:31	0:40	765KV Bhadla-Bikaner 2 tripped at 14:51 hrs due to R-N fault. Fault current 3kA and fault distance 65 km from Bhadla. At the same time, 220KV Saurya urja - Bhadla(PG) ckt 1&2 tripped due to SOTF/TOR fault. Around 430 MW Solar Generation loss occurred at Saurya urja. As per PMU, R-N fault with unsuccessful autoreclosing is observed in the system.	430	0	GD-1	0
13	NR	1) 765 KV Agra Fatehbad(UP)-Lalitpur(LPG) (UP) Ckt-1 2) 660 MW Lalitpur TPS - UNIT 3, 660 MW Lalitpur TPS - UNIT 2	UTTAR PRADESH	UPPTCL	13-Jun-20	18:15	13-Jun-20	19:49	1:34	765KV Lalitpur-Fatehbad line 1 tripped at 18:15 hrs due to R-N fault, Fault current-1.996 KA,FD-271.2km from fatehbad end. Due to tripping of this line, Unit #2 and Unit #3 tripped at Lalitpur. Around 935 MW Generation loss occurred at Lalitpur. Unit#1 went on house load (around 65MW). As per PMU, R-N fault with unsuccessful autoreclosing is observed in the system. In antecedent conditions, Unit#1, Unit#2 & Unit#3 generating around 360MW, 355MW & 356MW respectively. 765KV Lalitpur-Fatehbad line 1 carrying 736MW.	935	0	GD-1	0
14	NR	1) 765 KV Bhadla-Bikaner (PG) Ckt-2 2) 220 KV Bhadla(PG)-Saurya Urja Solar(SU) (Saurya Urja) Ckt-1 3) 220 KV Bhadla(PG)-Saurya Urja Solar(SU) (Saurya Urja) Ckt-2	RAJASTHAN	POWERGRID	14-Jun-20	17:27	14-Jun-20	18:05	0:38	765KV Bhadla-Bikaner 2 tripped due to R-N fault, Fault dist.- 65.99km and FC -3.434KA from Bhadla end. At the same time, 220KV Saurya urja - Bhadla(PG) ckt 1&2 also tripped from Saurya Urja end only. RE-generation loss is 170 MW approx. at Saurya-Urja. As per PMU, R-N fault with unsuccessful autoreclosing is observed in the system. In antecedent conditions, 765KV Bhadla-Bikaner 2 carrying 182MW and 220KV Saurya urja - Bhadla(PG) ckt 1&2 carrying 116MW & 66MW respectively.	170	0	GD-1	0
15	NR	1) 220 KV Bhadla(PG)-Saurya Urja Solar(SU) (Saurya Urja) Ckt-1 2) 220 KV Bhadla(PG)-Saurya Urja Solar(SU) (Saurya Urja) Ckt-2	RAJASTHAN	POWERGRID/ SAURYA	16-Jun-20	10:39	16-Jun-20	11:22	0:43	765KV Bhadla-Bikaner ckt 2 auto-re-close successful at 10:39 hrs on R-N fault, Fault dist.- 63.14km and FC -5.78KA from Bikaner end. Further 220KV Saurya urja - Bhadla(PG) ckt 1&2 tripped at 10:39 hrs from Saurya Urja end only due to this transient fault. RE-generation loss is 450 MW is reported by Saurya-Urja(Bhadla). Both 220 KV lines are restored at 11:22 hrs. 765KV Bhadla-Bikaner Ckt- 2 finally tripped at 10:59 hrs on R-N fault. Fault Dist. - 68.46km & FC -5.8KA from Bikaner end. As per PMU, at 10:59hrs R-N fault with successful autoreclosing is observed in the system. At 10:59hrs, R-N fault with successful autoreclosing again observed and it seems line tripped in reclaim time. In antecedent conditions, 220 KV Bhadla(PG)-Saurya Urja Solar(SU) (Saurya Urja) Ckt-1 & 2 carrying 281MW & 175MW respectively.	450	0	GD-1	0
16	NR	1) 220 KV Meerut(PG)-Gajraula(UP) (UP) 2) 400/220 kv 500 MVA ICT 4 at Meerut(PG) 3) 400/220 kv 315 MVA ICT 2 at Meerut(PG) 4) 220 KV Meerut(PG)-Shatabdinagar(UP) (PG) Ckt-1 5) 220KV Bus 2 at Meerut(PG), 220 KV Meerut(PG)-Simbholi(UP) (PG) Ckt-1	UTTAR PRADESH	POWERGRID, UPPTCL	16-Jun-20	10:45	16-Jun-20	11:57	1:12	220 KV Bus-II tripped along with ICT-2 & ICT-4 at Meerut substation due to operation of LBB relay on account of fault at 220 KV Meerut Gajraula line of UPPTCL. As per PMU, R-B fault is observed in the system. In antecedent conditions, 400/220 kv 315 MVA ICT 2 at Meerut(PG) & 400/220 kv 500 MVA ICT 4 at Meerut(PG) carrying 130MW & 280MW respectively.	0	0	GI-2	0
17	NR	1) 800 KV HVDC Kurukshetra(PG) Pole-1 2) 800 KV HVDC Kurukshetra(PG) Pole-2 3) 800 KV HVDC Kurukshetra(PG) Pole-3 4) 800 KV HVDC Kurukshetra(PG) Pole-4	HARYANA	POWERGRID	16-Jun-20	22:01	16-Jun-20	23:25	1:24	800KV HVDC Champa-Kurukshetra Pole 3 tripped due to CNAP maloperation at Champa end at 22:01 hrs, 800KV HVDC Champa-Kurukshetra Pole 1 tripped due to isolation failed for parallel Pole-3 at 22:03 hrs, 800KV HVDC Champa-Kurukshetra Pole 2 tripped due to VBE major failure fault at Kurukshetra end at 22:03 hrs, 800KV HVDC Champa-Kurukshetra Pole 4 tripped due to Lane changeover failed at champa at 22:03 hrs. As per PMU, fluctuations in voltage is observed in the system.	0	0	GI-2	0
18	NR	1) 220 KV Akal-Amarsagar	RAJASTHAN	RRVNL	19-Jun-20	11:05	20-Jun-20	15:12	28:07	Wind generation loss of 800 MW approx. of Rajasthan occurs after tripping of 220 KV Akal-Amarsagar line on Y-N fault, bus-coupler at Amarsagar also tripped. Generation was revived by 11.15 hrs. As per PMU, fluctuations in phase voltages are observed.	800	0	GD-1	0

Northern Region-Grid Event Report for June 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 Standards	Energy Unserviced (in MU)
					Date	Time	Date	Time						
19	NR	1) 400/220 kV 315 MVA ICT 2 at Suratgarh(RVUN) 2) 400/220 kV 315 MVA ICT 1 at Suratgarh(RVUN)	RAJASTHAN	RRVNL	19-Jun-20	12:07	19-Jun-20	14:01	1:54	400/220 kV 315 MVA ICT 1 & 315 MVA ICT 2 at Suratgarh(RVUN) tripped on overloading. As per PMU, fluctuations in phase voltages are observed in the system. Load loss of around 500 MW approx. in Rajasthan is observed as per SCADA data. The load of 220 KV Hanumangarh,Sri Ganga Nagar and Bhadra was met through other sources and load was revived by 13.16 hrs.315 MVA ICT-1 & 2 were charged at 14.03 and 14.01 hrs. respectively.	0	500	GD-1	0.55
20	NR	1) 250 MW Nathpa-Jhakri HPS - UNIT 2 2) 68.67 MW Rampur HEP - UNIT 1 3) 250 MW Nathpa-Jhakri HPS - UNIT 3 4) 68.67 MW Rampur HEP - UNIT 4 5) 68.67 MW Rampur HEP - UNIT 3 6) 250 MW Nathpa-Jhakri HPS - UNIT 1	HIMACHAL PRADESH	SIVNL	22-Jun-20	1:31	22-Jun-20	2:26	0:55	Nathpa Jhakri Unit #1,2,3 (250 MW Each) & Rampur HEP Unit#1,3,4 (68.67 MW Each) tripped at 01:32 hrs due to 48V DC failure at Nathpa . Rampur units tripped on TOS (in Tandem with NIPS). As per PMU, No fault is observed in the system. In antecedent conditions, Nathpa Jhakri Unit #1,2,3 generating 269MW, 244MW & 272MW respectively. Rampur HEP Unit#1,3,4 generating 73MW, 74MW & 72MW respectively.	970	0	GD-1	0
21	NR	1) 400 KV Suratgarh(RVUN)-Ratangarh(RS) (RS) Ckt-1 2) 400 KV Suratgarh(RVUN)-Ratangarh(RS) (RS) Ckt-2	RAJASTHAN	RRVNL	23-Jun-20	12:12	23-Jun-20	13:59	1:47	400 KV Suratgarh(RVUN)-Ratangarh(RS) (RS) Ckt-1 tripped on R-Y fault, FD =4.9KM, from Ratangarh end. At the same time, 400 KV Suratgarh(RVUN)-Ratangarh(RS) (RS) Ckt-2 tripped on B-N Fault, FD= 37.7KM from Ratangarh end. As per PMU, No fault is observed in the system. In antecedent conditions, 400 KV Suratgarh(RVUN)-Ratangarh(RS) (RS) Ckt-1 & 2 carrying 277MW each.	0	0	Gi-2	0
22	NR	1) 400 KV Bhadla-Jodhpur (RS) Ckt-1 2) 400 KV Jodhpur-Kankani (RS) Ckt-2	RAJASTHAN	RRVNL	24-Jun-20	16:18	24-Jun-20	17:48	1:30	400 KV Bhadla-Jodhpur (RS) Ckt-1 tripped on Y-N fault. At the same time, 400 KV Jodhpur-Kankani (RS) Ckt-2 also tripped on Y-N fault. As per PMU, Y-N fault is observed in the system. In antecedent conditions, 400 KV Bhadla-Jodhpur (RS) Ckt-1 & 400 KV Jodhpur-Kankani (RS) Ckt-2 carrying 224MW & 17MW respectively.	0	0	Gi-2	0
23	NR	1) 800 KV HVDC Kurukshetra(PG) Pole-1 2) 800 KV HVDC Kurukshetra(PG) Pole-2	HARYANA	POWERGRID	24-Jun-20	16:45	24-Jun-20	20:59	4:14	800 KV HVDC Champa(PG)-Kurukshetra(PG) Pole-1 & 2 tripped on CNAP(Common Neutral Area Protection) protection operated at Champa end. As per PMU, Fluctuations in voltage is observed in the system. In antecedent conditions, 800 KV HVDC Champa(PG)-Kurukshetra(PG) Pole-1 & 2 carrying 375MW each.	0	0	Gi-2	0
24	NR	1) 400 KV Khedar(HPG)-Kironi(HV) (HV) Ckt-1 2) 400/220 kV 315 MVA ICT 2 at Kironi(HV)	HARYANA	HVPNL	27-Jun-20	11:53	27-Jun-20	13:21	1:28	400 KV Khedar(HPG)-Kironi(HV) (HV) Ckt-1 tripped due to snapping R-Phase jumper. At the same time,400/220 kV 315 MVA ICT 2 at Kironi(HV) also tripped. As per PMU, multiple R-N faults are observed in the system. In antecedent conditions, 400 KV Khedar(HPG)-Kironi(HV) (HV) Ckt-1 & 400/220 kV 315 MVA ICT 2 at Kironi(HV) carrying 144MW & 190MW respectively.	0	0	Gi-2	0
25	NR	1) 68.67 MW Rampur HEP - UNIT 1 2) 250 MW Nathpa-Jhakri HPS - UNIT 6 3) 68.67 MW Rampur HEP - UNIT 5 4) 68.67 MW Rampur HEP - UNIT 2 5) 250 MW Nathpa-Jhakri HPS - UNIT 4 6) 250 MW Nathpa-Jhakri HPS - UNIT 5 7) 250 MW Nathpa-Jhakri HPS - UNIT 1 8) 68.67 MW Rampur HEP - UNIT 4 9) 250 MW Nathpa-Jhakri HPS - UNIT 2 10) 250 MW Nathpa-Jhakri HPS - UNIT 3	HIMACHAL PRADESH	SIVNL	29-Jun-20	4:23	29-Jun-20	6:12	1:49	On DC supply failure, multiple units at Jhakri and Rampur HEP tripped at different successive times.	1000	0	GD-1	0
26	NR	1) 220 KV Samaypur(BB)-Badshahpur(HV) (HVPNL) Ckt-1 2) 220 KV Ballabgarh-Samaypur (BB) Ckt-3 3) 220 KV Faridabad(NT)-Samaypur(BB) (PG) Ckt-2 4) 220 KV Palwal(HV)-Samaypur(BB) (HVPNL) Ckt-2 5) 400/220 kV 500 MVA ICT 3 at Ballabgarh(PG) 6) 220 KV Ballabgarh-Samaypur (BB) Ckt-1	HARYANA	BBMB, HVPNL, POWERGRID	29-Jun-20	9:27	29-Jun-20	10:48	1:21	Bus-1 Bus bar protection operated at Samaypur(BBMB) resulted in tripping of elements connected to bus-1.	0	150	GD-1	0.15
27	NR	1) 400 KV Anta(RS)-Kawai SCTPS(APR) (RS) Ckt-2 2) 400 KV Anta(RS)-Kawai SCTPS(APR) (RS) Ckt-1 3) 660 MW Kawai TPS - UNIT 1	RAJASTHAN	RRVNL	30-Jun-20	0:22	30-Jun-20	2:07	1:45	Multiple faults occurred resulted in tripping of 400KV Anta-Kawai D/C and subsequent tripping of Unit#1 at Kawai TPS.	540	0	GD-1	0
28	NR	1) 400 KV Khedar(HPG)-Kironi(HV) (HV) Ckt-1 2) 400/220 kV 315 MVA ICT 2 at Kironi(HV) 3) 400 KV Khedar(HPG)-Kironi(HV) (HV) Ckt-2 4) 400 KV Jind(PG)-Kironi(HV) (HVPNL) Ckt-2 5) 400 KV Jind(PG)-Kironi(HV) (HVPNL) Ckt-1 6) 400/220 kV 315 MVA ICT 3 at Kironi(HV)	HARYANA	HVPNL	30-Jun-20	1:57	30-Jun-20	4:03	2:06	Due to flash on 400kv tie bay isolator of Jind Kironi Ckt-2 at kironi end, R-N fault occurred. This resulted in tripping of all 400kv lines emanating from Kironi.	0	200	GD-1	0.4
29	NR	1) 800 KV HVDC Kurukshetra(PG) Pole-1 3) 800 KV HVDC Kurukshetra(PG) Pole-3	HARYANA	POWERGRID	30-Jun-20	4:12	30-Jun-20	5:45	1:33	800 KV HVDC Kurukshetra(PG) Pole-1 & 3 tripped due to Neutral bus switch reclose at Champa end.	0	0	Gi-2	0
30	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	30-Jun-20	6:09	30-Jun-20	8:17	2:08	220 KV Amargarh(NRSS XXIX)-Ziankote(JK) (PDD JK) Ckt-1 tripped on R-N fault with fault current 478amp, fault dist-110.77 km from Ziankote end. ckt-2 also tripped along with above.	0	50	GD-1	0.1

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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	Time					
1	WR	Tripping of 1.400 kV Korba(W) Extension-Bhilai 2400 kV Korba(W) Extension-Marwa. 3.400/220 kV 500 MVA Korba(W) ICT 4.210 MW Korba(W) Units 3&4 5.500 MW Korba(W) Extension Unit 5	CSPTCL/ESPGL	1-Jun-20	12:44	1-Jun-20	13:10	0:26	At 400 kV Korba(W) Extension Power station, while charging 400 kV Korba(W) Extension-Marwa, 400 kV Bus 1 & 2 tripped on BB protection operation, followed by the tripping of 400/220 kV 500 MVA Korba(W) ICT. This led to the tripping of 210 MW Korba(W) Units 3&4 and 500 MW Korba(W) Extension Unit 5 due to loss of evacuation path. 400kV Korba(W)-Raita was out of service from 29.05.2020 due to tower collapse.	675	Nil	GD-1	Nil
2	WR	Tripping of 1.400 kV REL-Durg 1&2 2.685 MW REL Unit 2	REL	2-Jun-20	10:49	2-Jun-20	12:18	1:29	400 kV REL-Durg 1&2 tripped on Y-B fault at 10:48 Hrs and B-E fault at 10:49 Hrs respectively which led to the tripping of 685MW REL Unit 2 due to loss of evacuation path.	310	Nil	GD-1	Nil
3	WR	Tripping of 1.400 kV RGPPL-Nagothane 1&2 2.400 kV Nagothane- Padghe 1&2 3.220kV Nagothane- Wadkhal 1 4.220 kV Nagothane- POSCO 5.220kV Nagothane-ACCIL	MSETCL	3-Jun-20	14:35	3-Jun-20	16:38	2:03	Due to Nisarga cyclone accompanied with heavy wind and rain,400 kV RGPPL-Nagothane 1&2 tripped on R-E fault and R-Y fault at 10:47 Hrs and 09:35 Hrs respectively. 220 kV Nagothane-Wadkhal 1 tripped at 12:58 Hrs due to B phase LA blast at Nagothane end. 400kV Nagothane- Padghe 1 tripped at 13:16hrs on B-E fault.220kV Nagothane- POSCO line tripped at 13:18hrs on Y-E fault. 220kV Nagothane-Wadkhal 2 tripped from Wadkhal end at 13:25Hrs on B-E fault. 220kV Nagothane-ACCIL(To Apta) tripped at 13:37Hrs on Y-E fault. 220kV Nagothane -MSL line was hand tripped at 14:05hrs due to Rph LA blast at MSL end.The last source to the substation 400 kV Nagothane-Padghe 2 tripped on B-E fault at 14:35 Hrs and the station went blackout.	Nil	4.5	GD-1	0.0092
4	WR	Tripping of 1.+800 kV HVDC Champa-Kurukshetra Poles 1,2,3&4	PGCIL	11-Jun-20	12:20	11-Jun-20	16:33	4:13	+800 kV HVDC Champa-Kurukshetra Poles 1,2,3&4 tripped on DC Line fault	Nil	Nil	GI-2	Nil
5	WR	Tripping of 1.765 kV Dharamjygarh Bus 4 2.765 kV Dharamjygarh-Jharsuguda 1	PGCIL	11-Jun-20	14:07	11-Jun-20	15:21	1:14	At 765/400 kV Dharamjygarh substation, due to internal flashover of 765kV Jharsuguda 1 Main Bay B Phase CT, Bus Bar protection operated and all Main bay CBs connected to Bus 4 tripped. As the fault current in the failed CT still persisted through the bay, internal LBB of Jharsuguda 1 Main Bay operated and resulted into tripping of Jharsuguda 1 feeder. Remote end tripped on DT received.	Nil	Nil	GI-2	Nil
6	WR	Tripping of 1.220 kV Vav- Mota 2 2.220 kV Vav- Kawas 2 3.220 kV Vav- Kosamba 4.220 kV Vav- Kakrapar 2 5.220 kV Vav- Uran 6.220/66 kV Vav ICT 3,4&5	GETCO	11-Jun-20	14:42	11-Jun-20	15:50	1:08	At 220 kV Vav substation, 220 kV Vav-Kosamba line tripped on B ph fault from remote end but breaker failed to open at Vav end which led to tripping of 220 kV Vav Bus-2 and all connected elements on LBB operation.	Nil	150	GI-1	0.1700
7	WR	Tripping of 1.400 kV Bhopal- Damoh 1&2 2.400 kV Bhopal- Bina 1&2 3.400 kV Bhopal- Itarsi 1&2 4.400 kV Bhopal- Bhopal BDTC 1&2 5.400/220kV Bhopal ICTs 1,2,3&4 6.220 kV Bhopal-Chuiasur 1	MPPTCL	11-Jun-20	17:54	11-Jun-20	18:29	0:35	At 400/220 kV Bhopal substation, 400kV Bina 1 suspension string failed and fell over 400 kV Bus 1 and created Y-B fault. 400 kV Bina 1 tripped on Zone 1 distance protection operation. Bus bar protection not operated, all the feeders connected at 400 kV side and 220 kV side tripped on Zone 2/Zone 3 distance protection operation. The total station went blackout due to the event.	Nil	100.8	GD-1	0.0444
8	WR	Tripping of 1.400 kV Dhule(MH)- Dhule 1&2 2.400 kV Dhule(MH)- Khandwa 1&2 3.400 kV Dhule(MH)- SSP 1 4.400 kV Dhule(MH)- Babhleshwar 2 5.400/220 kV Dhule(MH) ICTs 1,2&3	MSETCL	14-Jun-20	18:02	14-Jun-20	19:42	1:40	At 400 kV Dhule(MH) substation, 400 kV Bus 2 B phase CVT blasted and created B-E fault. The BB protection did not operate. All the 400 kV lines and 400/220 kV ICTs tripped on backup protection operation. The New ZIV make numerical BB scheme was in alarm mode and it was in parallel with old RADSS scheme. As reported by MSETCL, the New BB scheme was taken in to service after the event.	Nil	Nil	GI-2	Nil
9	WR	Tripping of 1.+800 kV HVDC Champa-Kurukshetra Poles 1,2,3&4	PGCIL	16-Jun-20	22:01	16-Jun-20	23:25	1:24	At 22:01 Hrs, 800 kV HVDC Champa-Kurukshetra Poles 3 blocked due to Common Neutral Area Protection (CNAP) maloperation at Champa end. At 22:03 Hrs, 800 kV HVDC Champa-Kurukshetra Poles 1,2&4 blocked on CAT B alarm generated at Kurukshetra end, DC Undercurrent protection operated at Kurukshetra end and Instability Minor Fail Alarm detected at Champa end respectively.	Nil	Nil	GI-2	Nil
10	WR	Tripping of 1.220 kV Pithampur Bus 1 2.220 kV Pithampur- Pithampur I/C 1 3.220 kV Pithampur-Pithampur Sector1 4.400/220 kV Pithampur ICTs 1&2	MPPTCL	23-Jun-20	23:50	24-Jun-20	2:08	2:18	At 400/220 kV Pithampur substation, R phase PT of 220 kV Bus 1 blasted and resulted in tripping of all the elements connected to 220 kV Pithampur Bus 1. 400/220 kV Pithampur ICT 2 connected to 220 kV Bus 2, also tripped during the event.	Nil	Nil	GI-1	Nil
11	WR	Tripping of 1.400 kV Jetpur Bus 2 2.400 kV Jetpur-Amrell 2 3.400 kV CGPL- Jetpur 2 4.400/220 kV Jetpur ICTs 1&2	GETCO	29-Jun-20	15:02	29-Jun-20	16:59	1:57	At 400 kV Jetpur substation, 400 kV Bus 2 and all connected elements tripped on BB protection operation due to B-E phase fault created by external conductive wire(kite thread) near 400 kV Amrell 1 bay.	Nil	Nil	GI-2	Nil
12	WR	Tripping of 1.400 kV Essar Vadinar- Hadala 1 2.600MW Essar Vadinar Unit 1	Essar	30-Jun-20	12:58	30-Jun-20	13:35	0:37	At 400 kV Essar Vadinar station, while test charging 400kV Essar Vadinar-Hadala 2 from Hadala end at 12:58hrs, 400kV Essar Vadinar- Hadala 1 tripped from Vadinar end. Due to tripping of both the lines, the station got black out. 600MW Essar Vadinar Unit 1 tripped due to the loss of evacuation path.	485	Nil	GD-1	Nil
13	WR	Tripping of 1. 220 kV Talegaon(MH) Bus 1 2.220 kV Talegaon(MH)-Talegaon(PG) 1 3.220 kV Talegaon(MH)- Urse 1 4.220 kV Talegaon(MH)- GM Motor 5.220/22 kV 50 MVA Talegaon(MH) ICT 2	MSETCL	30-Jun-20	21:52	30-Jun-20	22:50	0:58	At 220 kV Talegaon(MH), 220 kV side Y phase CT of 220/22 kV ICT 2 blasted and resulted in tripping of 220 kV Bus 1 and all the connected elements on BB operation.	Nil	10	GI-1	0.0097

Southern Region-Grid Event Report for June 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 Unreserved (MU)
				Date	Time (Hrs)	Date	Time (Hrs)	Time					
1	SR	i. 230kV Mywadi - Kadamparai line-1& 2 ii. 230kV link-1 and 2. iii. 230kV Mywadi - Ponnapuram line-1 & 2 iv. 230kV Mywadi - Okmandapam v. 230kV Mywadi - Sembatty vi. 230kV Mywadi - Kurukatthi vii. 230kV Mywadi - Anaikadavu viii. 400kV/220kV Udumalpet ICT-1, 2 and 3.	TANTRANSCO	22-Jun-20	23:47	23-Jun-20	2:11	2 Hrs 24 mins	Complete outage of 230kV Mywadi substation of TANTRANSCO : During antecedent conditions, 230kV Mywadi SS was under single bus operation. Triggering incident was failure of B phase CT of 230kV Mywadi-Ponnapuram line-2 at 230kV Mywadi end. 230 kV Bus-1 bus bar protection operated resulting in the tripping of all the connected elements at 230kV Mywadi . 400kV/230kV Udumalpet ICT-1, 2 and 3 also got tripped during the event.	----	----	GD-1	----
2	SR	i. 220kV Pavagada - KSPDCL3	KSPDCL	25-Jun-20	2:43	25-Jun-20	3:28	45 mins	Complete outage of 220/33kV KSPDCL SS-3: Triggering incident was tripping of 220kV Pavagada - KSPDCL3 line due to overvoltage at 220kV Pavagada end. Since the only connected feeder tripped, there was complete outage at 220/33kV KSPDCL SS-3. Solar generation was not there since the event happened during night hours.	----	----	GD-1	----
3	SR	i. 220kV Pavagada - Thirumani (KSPDCL5)	KSPDCL	29-Jun-20	18:01	29-Jun-20	18:55	54 mins	Complete outage of 220/33kV KSPDCL SS-5 (Thirumani): Triggering incident was tripping of 220kV Pavagada - Thirumani line due to overvoltage at Thirumani end only. Line did not trip at Pavagada end. This resulted in complete outage of 220/33kV KSPDCL SS-5 since the only connected feeder tripped.	25 MW	----	GD-1	----
4	SR	i. 220kV Nunna - KTPS line ii. 220kV Nunna - Gunadala line-2 Nunna Gudivada line-2 - Bhimadolu line 400kV/220kV Nunna ICT#3	APTRANSCO	3-Jun-20	14:01	3-Jun-20	14:24	23 mins	Multiple Tripping in 220kV Nunna SS of APTRANSCO : Triggering incident was failure of B phase LA of 220kV Nunna Gunadala line-2 (connected to 220kV Bus-2) in 220kV Nunna station. Due to breaker problem in 220kV Nunna Gundala line at Nunna end, LBB of Bus-2 operated resulting in tripping of all elements connected to 220kV Nunna Bus-2. 400/220kV ICT-3 got tripped on operation of backup OC protection.	----	----	GI-1	----
5	SR-ER	i. HVDC Gazuwaka Pole-1 HVDC Gazuwaka Pole-2	PGCIL	15-Jun-20	1:54	15-Jun-20	2:44	50 mins	Tripping of HVDC Gazuwaka Pole-1 and Pole-2: As reported Gazuwaka Pole-1&2 tripped on sustained AC oscillations/low-voltage in eastern side.	----	----	GI-2	----
6	SR	i. 220kV Vemagiri - Peddapuram line-2 ii. 220kV Vemagiri - Bommmuru Line-2 iii. 220kV Vemagiri - Duvva line iv. 400/220kV ICT-2 at Vemagiri	APTRANSCO	16-Jun-20	2:20	16-Jun-20	6:32	4 Hrs 12 mins	Tripping of 220kV Bus-2 at 400/220kV Vemagiri station: Triggering incident was Y-ph to ground fault in 220kV Vemagiri - Bommmuru Line-2. As reported, a creeper was fallen on Y-Phase bus-2 Isolator dropper of the line. Bus bar protection of 220kV Bus-2 operated and all elements connected to the bus tripped.	----	----	GI-1	----
7	SR	i. 400kV Raichur TPS - Raichur PG line-1 ii. 400kV Raichur TPS - BTPS iii. 400/220kV ICT-2 at Raichur	KPCL	16-Jun-20	10:10	16-Jun-20	12:27	2 Hrs 17 mins	Tripping of 400kV Bus-2 at Raichur TPS: Triggering incident was 400kV Bus-2 R-phase CVT flashover. Bus bar protection of 400kV Bus-2 operated leading to tripping of multiple elements.	----	----	GI-2	----
8	SR	i. 400/220kV ICT-1 ii. 400/220kV ICT-3 220kV Vemagiri - Bommmuru line 1 iv. 220kV Vemagiri - Bheemavaram v. 220kV Vemagiri - Vijeswaram	APTRANSCO	22-Jun-20	6:22	22-Jun-20	6:44	22 mins	Tripping of 220kV Bus-1 at 400/220kV Vemagiri station: Triggering incident was B-ph to ground fault in 220kV Vemagiri - Bommmuru Line-2 in 220kV Vemagiri - Vijeswaram feeder. As reported, an aluminium lead fell on B-Phase Bus-1 isolator dropper connected to 220kV Vijeswaram feeder. Bus bar protection of 220kV Bus-1 operated and all elements connected to the bus tripped.	----	----	GI-1	----

Eastern Region-Grid Event Report for June 2020

Sl. No.	Region	Name of major elements tripped	Owner / Agency	Outage		Revival		Outage Duration	Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA Grid Standards	Loss of Energy(in MU)
				Date	Time	Date	Time						
1	ER	220 kV Darbhanga (DMTCL)-Darbhanga (Bihar) D/C 220 kV Darbhanga-Mushahari-1 220 kV Darbhanga (DMTCL) – Motipur – 1	BSPTCL	10-Jun-20	10:54	10-Jun-20	11:25	0:31	On 10th June 2020, at 10:54 Hrs, 220 kV Darbhanga (DMTCL)-Darbhanga (BSPTCL) D/C tripped from BSPTCL end. At the same time 220 kV Darbhanga (BSPTCL) – Mushahari – 1 and 220 kV Darbhanga (DMTCL) – Motipur – 1 also tripped resulting in load loss at Darbhanga, Madhubani and Pandaul.	0	135	GD-1	0.0698
2	ER	220 kV New Mellii - Jorethang D/C 220 kV Tashiding - New Mellii S/C 220 kV Tashiding - Rangpo S/C	ISTS	11-Jun-20	22:38	12-Jun-20	4:50	6:12	220 kV New Mellii - Jorethang – D/C tripped from Jorethang end only resulting tripping of all running units at Jorethang. 220 kV Tashiding Rangpo S/C and 220 kV Tashiding New Mellii S/C tripped.	166	0	GD-1	0.0000
3	ER	220 kV New Mellii - Jorethang D/C 220 kV Tashiding - New Mellii S/C Unit 1 and 2 at Jorethang	ISTS	13-Jun-20	4:54	13-Jun-20	5:04	0:10	220 kV New Mellii - Jorethang – D/C tripped from Jorethang end only resulting tripping of all running units at Jorethang. 220 kV Tashiding – New Mellii S/C tripped from both ends. But both running units at Tashiding tripped on GT O/C protection.	175	0	GD-1	0.0000
4	ER	220 kV New Mellii - Jorethang D/C 220 kV Tashiding - New Mellii S/C 220 kV Tashiding - Rangpo S/C	ISTS	13-Jun-20	7:18	13-Jun-20	7:25	0:07	220 kV New Mellii - Jorethang – D/C tripped from Jorethang end only resulting tripping of all running units at Jorethang. 220 kV Tashiding Rangpo S/C and 220 kV Tashiding New Mellii S/C tripped.	117	0	GD-1	0.0000
5	ER	400 kV Rangpo-Binaguri 1 400 kV Rangpo-Teesta V-2 400 kV Rangpo-Dikchu 400 kV Rangpo-Kishanganj 315 MVA 400/220 KV ICT-3, 4, 5 at Rangpo Both units 1 and 2 at Dikchu HEP	ISTS	19-Jun-20	12:54	19-Jun-20	13:20	0:26	At 12:54 hrs. gas density high alarm initiated in 400 kV Rangpo-Binaguri Ckt-I at Rangpo and tripping command was sent to 400kV Main Bus-1 at Rangpo. All feeders connected to 400 kV main bus 1 tripped. Due to unavailability of tie bay of 400/132 kV ICT at Dikchu, both the running units at Dikchu HEP were connected to bus 1 at Dikchu via 400/132 kV ICT. After tripping of 400 kV Dikchu – Rangpo S/C (it was also connected to bus 1 at both Rangpo and Dikchu) due to bus bar operation at Rangpo, both the units tripped due to loss of evacuation path.	109	0	GI-2	0.0000
6	ER	220 kV Joda – TTPS D/C 220 kV Ramchandrapur – Joda S/C 220 kV Joda Jindal S/C	OPTCL	23-Jun-20	11:58	23-Jun-20	12:29	0:31	At 11:41 hrs 220 kV Joda – TTPS D/C tripped on B phase to earth fault. At 11:57 hrs, 220 kV Ramchandrapur – Joda S/C tripped on overload. Prior to the tripping, power flow was 160 MW. At same time 220 kV Joda JSPL (Jindal) – Jamshedpur S/C tripped at same time from Ramchandrapur and Jamshedpur end respectively in overcurrent protection	0	160	GD-1	0.0933
7	ER	220 kV Muzaffarpur - Dhalkebar D/C	ISTS	24-Jun-20	18:23	24-Jun-20	19:12	0:49	220 kV Muzaffarpur Dhalkebar D/C tripped at 18:23 hrs from Muzaffarpur end on R phase directional earth fault. Prior to the tripping schedule of Nepal drawal over this link was 74 MW and it would increase to 163 MW w.e.f. 18:30 hrs. There was no generation or load loss reported in Indian grid at the time of the event.	0	0	GI-1	0.0000
8	ER	400 kV Alipurduar - Jigmelling D/C Unit 1 and 2 at Mangdechu	ISTS	25-Jun-20	2:47	25-Jun-20	4:02	1:15	400 kV Alipurduar -Jigmelling D/C tripped at 02:47 Hrs due to R phase to earth fault. At Alipurduar, auto reclose was successful for both circuits. But both the circuits tripped from Jigmelling. Around 590 MW generation loss was reported at the time of the event. There was no generation or load loss reported in Indian grid at the time of the event.	0	0	GI-2	0.0000
9	ER	400 kV Alipurduar - Jigmelling D/C Unit 1 and 2 at Mangdechu	ISTS	26-Jun-20	15:40	26-Jun-20	17:07	1:27	400 kV Jigmelling - Alipurduar – 1 along with all four running units (generating around 770 MW) of Mangdechu tripped at 15:40 hrs. DT signal was received at Alipurduar end of 400 kV Jigmelling Alipurduar – 1 at the time of the tripping. Later, at 15:53 hrs, 400 kV Jigmelling - Alipurduar – 2 also tripped due to B phase to earth fault. 400 kV Jigmelling - Alipurduar – 1 was extended from Alipurduar end at 16:24 hrs. But while synchronising at Jigmelling end, it tripped again at 16:49 hrs with DT received at Alipurduar. There was no generation or load loss reported in Indian grid at the time of the event.	0	0	GI-2	0.0000
10	ER	400 kV GMR – Meramundali S/C GMR unit #3	OPTCL	26-Jun-20	18:43	26-Jun-20	20:21	1:38	GMR unit # 3 was connected to 400/220 kV Meramundali S/S of OPTCL STU network through 400 kV GMR – Meramundali S/C. At 18:43 hrs, 400 kV GMR Meramundali S/C tripped due to DT received at Meramundali end. This caused total power failure at GMR (OPTCL) section and GMR unit #3 tripped. In PMU data, no fault was observed at the time of event	180	0	GD-1	0.0000
11	ER	400 kV Rangpo – Kishanganj S/C Unit 1 and 2 at Dikchu HEP Unit 1 at JLHEP	ISTS	27-Jun-20	14:48	27-Jun-20	15:08	0:20	At 14:48 hrs 400 kV Rangpo – Kishanganj S/C tripped due to B phase to earth fault. At same time, unit 1 and 2 at Dikchu HEP and unit 2 at Jorethang tripped due to operation of differential relay.	161	0	GI-2	0.0000
12	ER	400 kV BRBCL – Sasaram – 1 Unit 1 and 2 at BRBCL	ISTS	29-Jun-20	21:53	29-Jun-20	22:25	0:32	400 kV BRBCL – Sasaram – 2 was under break down due to rectification of tower bending. Unit 1 and 2 were in running condition at BRBCL. At 21:53hrs., 400kV Sasaram-BRBCL #1 tripped on R and Y phase fault. Both the units got tripped due to loss of evacuation path	422	0	GD-1	0.0000

North Eastern Region-Grid Disturbances Report for June 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 Balipara-Tenga line.	DoP, Arunachal Pradesh	01-Jun-20 13:37	01-Jun-20 14:00	0:23:00	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara-Tenga line. At 13:37 Hrs on 01.06.2020, 132 kV Balipara-Tenga line tripped. Due to tripping of this element, Khupi 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	0.005	GD 1
2	NER	132 kV Badarpur-Kolasib line & 132 kV Aizawl - Kolasib lines	POWERGRID & DoP Mizoram	02-Jun-20 06:10	02-Jun-20 06:25	0:15:00	Kolasib area of Mizoram Power System were connected with the rest of NER Grid through 132 kV Badarpur-Kolasib line & 132 kV Aizawl - Kolasib line. At 06:10 Hrs on 02.06.2020, 132 kV Badarpur-Kolasib line & 132 kV Aizawl - Kolasib lines tripped. Due to tripping of these elements, Kolasib area of Mizoram Power System was separated from rest of NER Grid and subsequently collapsed due to load generation mismatch.	17	1	0.004	0.0003	GD 1
3	NER	132 kV Ranganadi - Ziro line	POWERGRID & DOP AP	02-Jun-20 11:21	02-Jun-20 11:36	0:15:00	Ziro area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi - Ziro line. At 11:21 Hrs on 02.06.2020, 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	12	0	0.0030	GD 1
4	NER	132 kV Dimapur- Kohima line & 132 kV Wokha -Kohima line	POWERGRID & DoP, Nagaland	02-Jun-20 13:43	02-Jun-20 13:59	0:16:00	Kohima area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Dimapur- Kohima line & 132 kV Wokha -Kohima line. 132 kV Kohima-Karong Line was under planned S/D w.e.f 08:10 Hrs of 02.06.2020. At 13:43 Hrs on 02.06.2020, 132 kV Dimapur- Kohima line & 132 kV Wokha -Kohima line tripped. Due to tripping of these elements, Kohima area were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas.	32	15	0.009	0.0040	GD 1
5	NER	132 kV Agartala-Rokhia D/C lines & 132 kV Monarchak -Rokhia line .	TSECL	05-Jun-20 00:36	05-Jun-20 01:41	1:05:00	Rokhia area of Tripura Power System was connected with the rest of NER Grid through 132 kV Agartala-Rokhia D/C lines & 132 kV Monarchak -Rokhia line . At 00:36 Hrs on 05.06.2020, 132 kV Agartala-Rokhia D/C lines & 132 kV Monarchak -Rokhia line tripped. Due to tripping of these elements, Rokhia area & Rokhia power station were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in this area.	50	5	0.54	0.0050	GD 1
6	NER	132 kV Karong - Kohima ,132 kV Imphal(PG) - Imphal(MSPCL) I and II lines	POWERGRID, MSPCL & DoP, Nagaland	08-Jun-20 10:36	08-Jun-20 10:47	0:11:00	Imphal and Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Karong - Kohima ,132 kV Imphal(PG) - Imphal(MSPCL) I and II Lines. 132 kV Imphal(PG) - Imphal(MSPCL) III line was under Shutdown. 132 kV Kakching - Kongba line was kept open to avoid over- loading of 132 kV Loktak - Ningthoukhong line. At 10:36 Hrs on 08.06.2020, 132 kV Karong - Kohima ,132 kV Imphal(PG) - Imphal(MSPCL) I and II lines tripped. Due to tripping of these elements, Imphal and Karong area of Manipur Power System were separated from the rest of NER Grid and subsequently collapsed due to no source in these areas.	0	46	0	0.0084	GD 1
7	NER	132 kV Karong - Kohima line	DoP, Nagaland and MSPCL	08-Jun-20 11:49	08-Jun-20 11:55	0:06:00	Imphal and Karong area of Manipur Power System was connected with the rest of NER Grid through 132 kV Karong - Kohima line. 132 kV Imphal(PG) - Imphal(MSPCL) I and II Lines tripped at 11:45 Hrs. 132 kV Imphal(PG) - Imphal(MSPCL) III line was under Shutdown. 132 kV Kakching - Kongba line was kept open to avoid over- loading of 132 kV Loktak - Ningthoukhong line. At 11:49 Hrs on 08.06.2020, 132 kV Karong - Kohima line tripped. Due to tripping of this element, Imphal and Karong area of Manipur Power System were separated from the rest of NER Grid and subsequently collapsed due to no source in these area.	0	45	0	0.0045	GD 1
8	NER	132 kV Karong - Kohima ,132 kV Imhal(MSPCL) I and II lines	POWERGRID, MSPCL & DoP, Nagaland	08-Jun-20 13:35	08-Jun-20 13:44	0:09:00	Imphal and Karong area of Manipur Power System were connected with the rest of NER Grid through 132 kV Karong - Kohima ,132 kV Imphal(PG) - Imphal(MSPCL) I and II Lines. 132 kV Imphal(PG) - Imphal(MSPCL) III line was under Shutdown. 132 kV Kakching - Kongba line was kept open to avoid over- loading of 132 kV Loktak - Ningthoukhong line. At 13:35 Hrs on 08.06.2020,132 kV Karong - Kohima ,132 kV Imphal(PG) - Imphal(MSPCL) I and II lines tripped. Due to tripping of these elements, Imphal and Karong area of Manipur Power System were separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	46	0	0.0070	GD 1
9	NER	132 kV Balipara-Tenga	NEEPCO & DoP, Arunachal Pradesh	08-Jun-20 16:31	08-Jun-20 16:42	0:11:00	Khupi area of Arunachal Pradesh Power System and Dikshi HEP were connected with the rest of NER Grid through 132 kV Balipara-Tenga line. At 16:31 Hrs on 08.06.2020, 132 kV Balipara-Tenga line tripped. Due to tripping of this element, Khupi area of Arunachal Pradesh Power System and Dikshi HEP were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0	0.0020	GD 1
10	NER	220 kV AGBPP - Mariani(PG) line, 220 kV AGBPP - Mariani(AS) line, 220 kV AGBPP - Tinsukia D/C, AGBPP Unit 1, 2, 3, 4, 5, 7, 8 & 9	POWERGRID, NEEPCO, AEGCL & DoP AP	09-Jun-20 12:51	09-Jun-20 13:22	0:31:00	AGBPP Power Station and Deomali area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 220 kV AGBPP - Mariani(PG) line, 220 kV AGBPP - Mariani(AS) line, 220 kV AGBPP - Tinsukia D/C. At 12:51 Hrs on 09.06.2020, 220 kV AGBPP - Mariani(PG) line, 220 kV AGBPP - Mariani(AS) line, 220 kV AGBPP - Tinsukia D/C tripped along with all units in service at AGBPP due to operation of LBB protection of GTG-3 at AGBPP. Due to tripping of these elements, AGBPP Power Station and Deomali area of Arunachal Pradesh Power System were separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	112	3	0.058	0.0020	GD 1
11	NER	132 kV Rokhia - Agartala 2 line & 132 kV Rokhia - Monarchak line	TSECL	09-Jun-20 13:38	09-Jun-20 13:49	0:11:00	Rokhia Power Station of Tripura Power System was connected with the rest of NER Grid through 132 kV Rokhia - Agartala 2 line & 132 kV Rokhia - Monarchak line. 132 kV Rokhia - Agartala 1 line was under emergency shutdown w.e.f 11:43 Hrs on 09.06.20. At 13:38 Hrs on 09.06.2020, 132 kV Rokhia - Agartala 2 line & 132 kV Rokhia - Monarchak line tripped. Due to tripping of these elements, Rokhia Power Station of Tripura Power System was separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch.	25	15	0.005	0.0030	GD 1
12	NER	132 kV Lekhi - Pare line and 132 kV Lekhi - Nirjuli line.	POWERGRID & DoP, AP	10-Jun-20 10:49	10-Jun-20 11:30	0:41:00	Lekhi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Lekhi - Pare line 132 kV Lekhi - Nirjuli line. 132 kV Lekhi - Itanagar line kept open due to CT ratio restriction at Lekhi end. At 10:49 Hrs on 10.06.2020, 132 kV Lekhi - Pare line 132 kV Lekhi - Nirjuli line tripped. Due to tripping of these elements, Lekhi 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	17	0	0.0116	GD 1
13	NER	132 kV Balipara - Tenga line	NEEPCO & DoP, AP	10-Jun-20 11:25	10-Jun-20 11:44	0:19:00	Khupi area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV Balipara - Tenga line. At 11:25 Hrs on 10.06.2020, 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	14	0	0.0044	GD 1
14	NER	132 kV RHEP- Itanagar line & 132 kV Pare- Itanagar line	NEEPCO & DoP, AP	10-Jun-20 12:44	10-Jun-20 13:03	0:19:00	Itanagar (Capital) area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV RHEP- Itanagar line & 132kV Pare- Itanagar line. 132 kV Lekhi - Itanagar line kept open due to CT ratio restriction at Lekhi end. At 12:44 Hrs on 10.06.2020, 132 kV RHEP- Itanagar line & 132kV Pare- Itanagar line tripped. Due to tripping of these elements, Itanagar (Capital) 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	16	0	0.0051	GD 1
15	NER	132 kV Dimapur(PG) - Dimapur(DoP, Nagaland) I and II Lines	POWERGRID and DoP, Nagaland	17-Jun-20 17:24	17-Jun-20 18:15	0:51:00	Dimapur area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Dimapur(PG) - Dimapur(DoP, Nagaland) I and II Lines. At 17:24 Hrs on 17.06.20, 132 kV Dimapur(PG) - Dimapur(DoP, Nagaland) I and II Lines tripped. Due to tripping of these elements, Dimapur area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	56	0	0.0480	GD 1

North Eastern Region-Grid Disturbances Report for June 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
16	NER	132 kV Loktak- Ningthoukhong and 132 kV Imphal - Ningthoukhong lines	MSPCL	19-Jun-20 11:34	19-Jun-20 11:54	0:20:00	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak- Ningthoukhong line and 132 kV Imphal - Ningthoukhong line. (132 kV Kakching - Elangkangpokpi & Kakching-Churacnampur line kept open for over-loading of 132 kV Loktak- Ningthoukhong line.) At 11:34 Hrs on 19.06.20, 132 kV Loktak- Ningthoukhong line and 132 kV Imphal - Ningthoukhong lines tripped. Due to tripping of these elements, Ningthoukhong area of Manipur Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	17	0	0.0056	GD 1
17	NER	132 kV RHEP- Itanagar line & 132kV Pare-Itanagar line	NEEPCO & DoP, AP	19-Jun-20 13:39	19-Jun-20 13:57	0:18:00	Itanagar (Capital) area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV RHEP- Itanagar line & 132 kV Pare- Itanagar line. 132 kV Lekhi - Itanagar line kept open due to CT ratio restriction at Lekhi end. At 13:39 Hrs on 19.06.2020, 132 kV RHEP- Itanagar line & 132kV Pare- Itanagar line tripped. Due to tripping of these elements, Itanagar (Capital) 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	16	0	0.0048	GD 1
18	NER	132 kV RHEP- Itanagar line & 132kV Pare-Itanagar line	NEEPCO & DoP, AP	19-Jun-20 17:23	19-Jun-20 17:35	0:12:00	Itanagar (Capital) area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 kV RHEP- Itanagar line & 132 kV Pare- Itanagar line. 132 kV Lekhi - Itanagar line kept open due to CT ratio restriction at Lekhi end. At 17:23 Hrs on 19.06.2020, 132 kV RHEP- Itanagar line & 132kV Pare- Itanagar line tripped. Due to tripping of these elements, Itanagar (Capital) 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	15	0	0.0030	GD 1
19	NER	132 kV Dimapur (PG)-Kohima(DoP, Nagaland) line and 132 Kohima -Wokha line	POWERGRID & DoP, Nagaland	20-Jun-20 11:33	20-Jun-20 11:54	0:21:00	Kohima (Capital) area of Nagaland Power System was connected with rest of NER Grid through 132 kV Dimapur (PG)-Kohima(DoP, Nagaland) line and 132 Kohima -Wokha line. 132 kV Karong -Kohima line was under outage since 09:16 Hrs on 20.06.20. At 11:33 Hrs on 20.06.20, 132 kV Dimapur (PG)-Kohima(DoP, Nagaland) line and 132 Kohima -Wokha 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 load generation mismatch in this area.	9	13	0.003	0.0046	GD 1
20	NER	132 kV Palatana-Surjamaninagar line, 132 kV Agartala-Surjamaninagar I line and 132 kV Budhjungnagar-Surjamaninagar I & II lines	TSECL , PGCB POWERGRID	22-Jun-20 10:23	22-Jun-20 10:38	0:15:00	Surjamaninagar Area of Tripura Power System and Comilla Load of Bangladesh Power System were connected with the rest of NER Grid through 132 kV Palatana-Surjamaninagar line, 132 kV Agartala-Surjamaninagar I & II lines and 132 kV Budhjungnagar-Surjamaninagar I & II lines. At 10:23 Hrs on 22.06.2020, 132 kV Palatana-Surjamaninagar line, 132 kV Agartala-Surjamaninagar I line and 132 kV Budhjungnagar-Surjamaninagar I & II lines tripped. At 10:28 Hrs, 132 kV Agartala-Surjamaninagar II line handtripped from Surjamaninagar. Due to tripping of these elements, Surjamaninagar Area of Tripura Power System and Comilla Load of Bangladesh Power System were separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	132	0	0.0330	GD 1

North Eastern Region-Grid Incidences Report for June 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	AGBPP Unit-6	NEEPCO	01-Jun-20 15:46	01-Jun-20 16:30	0:44:00	AGBPP Unit-6 tripped at 15:46 Hrs on 01-06-20 due to low fuel pressure. Revision done from Block No.67 on 01-06-20	27	0	0.020	0	GI 2
2	NER	AGBPP Unit-7 & 8	NEEPCO	03-Jun-20 00:19	03-Jun-20 02:15	1:56:00	AGBPP Unit-7 & 8 tripped at 00:16 Hrs on 03-06-20 due to tripping of auxillary supply. Revision done from Block No.10 on 03-06-20	55	0	0.110	0	GI 2
3	NER	AGTCCPP Unit-2 & 5	NEEPCO	06-Jun-20 10:03	06-Jun-20 11:30	1:27:00	AGTCCPP Unit 2 tripped due to DC charger supply U/V and AGTCCPP Unit 5 tripped due to non- availability of HRSG#1 & 2 at 10:03 Hrs on 06-06-20. Revision done from Block No.47 on 06-06-20	22	0	0.030	0	GI 1
4	NER	AGBPP Unit-5 and Unit-9	NEEPCO	08-Jun-20 04:41	08-Jun-20 07:00	2:19:00	AGBPP Unit-5 and Unit-9 tripped at 04:41 Hrs on 08-06-20 due to tripping of excitation system. Revision done from Block No.29 on 08-06-20	40	0	0.090	0	GI 2
5	NER	AGBPP Unit-5	NEEPCO	10-Jun-20 20:42	10-Jun-20 22:00	1:18:00	AGBPP Unit-5 tripped due to Differential Relay operated at 20:42 Hrs on 10-06-20. Revision done from Block No.89 on 10-06-20	22	0	0.030	0	GI 2
6	NER	Doyang Unit- 2	NEEPCO	15-Jun-20 16:25	15-Jun-20 18:30	2:05:00	Doyang Unit-2 tripped due to voltage jerk (increase of excitation) at 16:25 Hrs on 15-06-20. Revision done from Block No.75 on 15-06-20	16	0	0.020	0	GI 1
7	NER	AGBPP Unit-3	NEEPCO	18-Jun-20 07:59	18-Jun-20 09:30	1:31:00	AGBPP Unit-3 tripped due to loss of SF6 gas at 07:59 Hrs on 18-06-20. Revision done from Block No.39 on 18-06-20	21	0	0.030	0	GI 2
8	NER	Pare Unit 1 and 2	NEEPCO	22-Jun-20 14:52	22-Jun-20 17:00	2:08:00	Pare Unit 1 and 2 tripped due to operation of Over current interlock in stage-2 of 21G at 14:52 Hrs on 22-06-20. Revision done from Block No.69 on 22-06-20	118	0	0.030	0	GI 1
9	NER	DHEP Unit 1 and 2	NEEPCO	23-Jun-20 08:06	23-Jun-20 10:00	1:54:00	DHEP Unit 1 and 2 tripped due to Operation of Negative Phase Sequence Relay at 08:06 Hrs on 23-06-20. Revision done from Block No.41 on 23-06-20	40	0	0.080	0	GI 1
10	NER	AGBPP Unit -3	NEEPCO	28-Jun-20 03:16	28-Jun-20 05:00	1:44:00	AGBPP Unit -3 tripped due to Excessive Vibration at 03:16 Hrs on 28-06-20. Revision done from Block No.21 on 28-06-20	21.7	0	0.040	0	GI 2
11	NER	Palatana Unit 1 , 2 , 3 & 4	OTPC	28-Jun-20 09:48	28-Jun-20 11:30	1:42:00	Palatana Unit 1 , 2 , 3 & 4 tripped due to Tripping of Gas compressor (Gas supply pressure fluctuation) at 09:48 Hrs on 28-06-20. Revision done from Block No.47 on 28-06-20	551	0	0.940	0	GI 2