Details of Grid Events during the Month of October 2022 in Northern Region

Sl No.	Category of Grid Event (GI 1or 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD-1	Uttarakhand	06-Oct-2022 02:27	06-Oct-2022 02:56	0:29	60	0	0.183	0.000	32745	46719	1. As reported, at 02:27 hrs, 220 KV Sarsawan (UP)-Khodri (UK) (UP) Ckt-1 tripped from both ends on B-N phase to earth fault. Fault distance was ~52km from Khodri end. 2. At the same time, 220 KV Saharanpur (UP) -Khodri (UK) (UP) Ckt-1 tripped from Saharanpur end only followed by tripping of 60MW unit-1, 2 & 4 at Khodri HEP carrying total ~60MW. 3. As per PMU at Roorkee (PG), B-N phase to earth fault with delayed clearance in 1160ms is observed. 4. As per SCADA, change of approx. 60MW in Uttarakhand generation is observed.	1) 220 KV Sarsawan(UP)-Khodri(UK) (UP) Ckt-1 2) 220 KV Saharanpur(UP) -Khodri(UK) (UP) Ckt-1 3) 60 MW UNIT 1 at Khodri HEP 4) 60 MW UNIT 2 at Khodri HEP 5) 60 MW UNIT 4 at Khodri HEP
2	GI-2	Uttar Pradesh	09-Oct-2022 10:29	09-Oct-2022 17:34	7:05	0	0	0.000	0.000	44077	45322	1. At 10:29 hrs, 400/220 kV 500 MVA ICT 2 at Moradabad (UP) and 400 kV Hapur(UP)-Moradabad(UP) (PG) Ckt-1 tripped. As reported, LBB protection operated due to DC supply fault in 400/220kV 500MVA ICT-2 bay at Moradabad (UP). 2. As per PMU at Meerut (PG), no fault observed in system. 3. In antecedent condition, 400/220 kV 500 MVA ICT 2 at Moradabad (UP) and 400 kV Hapur(UP)-Moradabad(UP) (PG) Ckt-1 were carrying ~41MW & ~7MW respectively	1) 400/220 kV 500 MVA ICT 2 at Moradabad(UP) 2) 400 KV Hapur(UP)-Moradabad(UP) (PG) Ckt-1
3	GD-1	Himachal Pradesh	11-Oct-2022 14:43	11-Oct-2022 20:57	6:14	93	0	0.218	0.000	42568	43716	1. During antecedent condition, 250MW Unit-1 at Parbati2 HEP (generating ~58MW), 400 KV Parbati_2(NH)-Parbati Pooling Banala(PG) (PKTCL) Ckt and 400 KV Parbati_2(NH)-Sainj(HP) (PKTCL) Ckt were connected at 400kV Bus-1 at Parbati 2(NH). 400kV Bus-2 at Parbati(NH) is out since 29th July22 on fire incident. 2. As reported, at 14:43 hrs, Main-1 relay of Bus bar protection mal operated which led to the tripping of 250MW Unit-1 at Parbati2 HEP, 400 KV Parbati_2(NH)-Parbati Pooling Banala(PG) (PKTCL) Ckt and 400 KV Parbati_2(NH)-Sainj(HP) (PKTCL) Ckt. 3. Due to tripping of aforementioned line, 50MW Sainj Unit 1 & 2 also tripped due to loss of evacuation path. 4. As per PMU at Amritsar(PG), no fault in system is observed. 5. As per SCADA, loss of approx. 60MW generation at Parbati2(NH) and ~33MW at Sainj(HP) observed.	1) 50MW Sainj Unit 1 2) 50MW Sainj Unit 2 3) 250MW Unit 1 at Parbati2 HEP 4) 400 KV Parbati_2(NH)-Parbati Pooling Banala(PG) (PKTCL) Ckt-1 5) 400 KV Parbati_2(NH)-Sainj(HP) (PKTCL) Ckt-1 6) 400kV Bus 1 at Parbati 2(NH)
4	GD-1	RAJASTHAN	12-Oct-2022 11:18	12-Oct-2022 12:04	0:46	233	0	0.509	0.000	45769	46966	1. As reported at 11:18 hrs, 220 kV ACME Heeragarh (AHPPL) – Bhadla2(PG) ckt tripped due to PLCC malfunction at Bhadla2(PG) end. 2. As per PMU, no fault is observed. 3. As per PMU at AHPPL RE Station, generation loss of approx. 233MW occurred at AHPPL.	1) 220 kV ACME Heeragarh (AHPPL) – Bhadla2(PG) ckt
5	GD-1	RAJASTHAN	15-Oct-2022 11:23	15-Oct-2022 11:29	0:06	3729	0	8.472	0.000	44014	47669	1. On 15.10.2022 at 11:23 hrs, R-ph pole of Main CB at Bhiwani(PG) end of 765 KV Phagi(RS)-Bhiwani(PG) (PG) Ckt-1 burst which led to R-ph bus fault on 765kV Bus-1 at Bhiwani(PG). 2. On this fault, bus bar protection of 765kV Bus-1 at Bhiwani(PG) operated. All the main CB connected at 765kV Bus-1 opened. As tie CB of 765 KV Phagi(RS)-Bhiwani(PG) (PG) Ckt-1 was already in opened condition, this line tripped from Bhiwani end. 3. As per PMU at Bhiwani(PG), R-N phase to earth fault which cleared within 100ms is observed. As per PMU plot of phase voltage at RE stations, during the fault, voltage dropped to 0.8-0.9pu only. 4. At the same time, during the fault, drop in generation of almost all the RE generation pooled at 765kV Fatehgarh2(PG), Bhadla(PG), Bhadla2(PG) & Bikaner(PG) is observed. Generation at few of the RE station revived back with the clearance of fault but at some stations partial or no recovery is observed. PMU plots of the MW/Mvar and phase voltages of RE stations are attached for the reference. 5. As per SCADA, total solar generation drop of approx. 3729MW in Rajasthan RE complex is observed (3579MW ISTS RE stations and ~150MW of Rajasthan state solar generation). 6. As per SCADA, no change is observed in state demands.	1) 765kV Bus-1 at Bhiwani(PG) 2) 765 KV Phagi(RS)-Bhiwani(PG) (PG) Ckt-1
6	GD-1	Uttar Pradesh	15-Oct-2022 12:57	15-Oct-2022 14:49	1:52	980	0	2.302	0.000	42576	47444	1. During antecedent condition, 765 KV Agra Fatehabad(UP)-Lalitpur(LPG) (UP) Ckt-1 was under planned shutdown to attend hot point jumper tightening and fixing jumper nut bolt work, 660MW Lalitpur Unit 1, 2 & 3 were carrying 345MW, 348MW & 339MW respectively and 765 KV Agra Fatehabad(UP)-Lalitpur(LPG) (UP) Ckt-2 was carrying 961MW. 2. At 12:57 Hrs, during testing and commissioning work of spare phase 80MVAR line reactor for charging in place of R-phase line reactor of 765kV Agra Fatehabad-Lalitpur ckt-1 at Agra Fatehabad end, unwanted tripping command of line reactor generated and DT sent to 765kV Agra Fatehabad-Lalitpur ckt-2 at Lalitpur end. 3. As per PMU, no fault in system is observed. 4. Due to this 765kV Lalitpur Agra (Fatehabad) ckt - II tripped and as 765kV Lalitpur Agra (Fatehabad) ckt – I was already under shutdown, SPS for evacuation of Lalitpur TPS Generation operated. SPS case which operated is as follows: Case-3: If both 1500MVA ICTs at Fatehabad (UP) or both765kV Lalitpur TPS-Fatehabad (UP) circuit –I & II got tripped at 765kV sub-station Fatehabad. Action: In this condition, to safe guard the running units of Lalitpur TPS, it will be essential to bring down the generation immediately of running units to house load. Both 220kV circuits of i.e. 220kV Jhansi & Lalitpur should also get opened from Lalitpur TPS end. In this regard it is suggested that Lalitpur TPS should be considered to be taken into 'Islanding Scheme'. 5. As reported, on SPS operation 660 MW Lalitpur TPS - UNIT 1 & UNIT 2 tripped and generation of 660 MW Lalitpur TPS - UNIT 3 back downed to house load. In addition to that, 220kV lines to Jhansi and Babina (220kV Lalitpur) also tripped. 6. As per SCADA, generation loss of approx. 980MW at Lalitpur TPS is observed.	1) 765 KV Agra Fatehabad(UP)-Lalitpur(LPG) (UP) Ckt-2 2) 660 MW Lalitpur TPS - UNIT 2 3) 660 MW Lalitpur TPS - UNIT 1 4) 220kV Lalitpur TPS - Jhansi ckt-1&2 5) 220kV Lalitpur TPS - Babina(220kV Lalitpur) ckt-1&2
7	GD-1	J&K(UT) & Ladakh(UT)	16-Oct-2022 04:31	16-Oct-2022 05:38	1:07	0	130	0.000	0.331	30538	39282	1. At 04:31 hrs, R-N phase to earth fault occurred on 220kV Hiranagar-Ghatti ckt, fault distance was ~6.94km from Hiranagar end. As reported by NR-2 POWERGRID, fault distance was ~14km (~100%) from Sambha(PG) end. 2. On this fault, all the elements connected at 220kV Hiranagar(JK) tripped from Hiranagar end. 220 KV Samba(PG)-Hiranagar(PDD) (PG) Ckt-1 tripped from Samba end on DT received from Hiranagar end and 220 KV Samba(PG)-Hiranagar(PDD) (PG) Ckt-2 didn't trip from Sambha end. 3. As per PMU at Sambha(PG), R-N phase to earth fault with delayed clearance in 320ms is observed. 4. As per SCADA, load loss of approx. 130MW observed in J&K(UT) & Ladakh(UT) control area.	1) 220 KV Samba(PG)-Hiranagar(PDD) (PG) Ckt-1 2) 220 KV Samba(PG)-Hiranagar(PDD) (PDD JK) Ckt-2 3) 220kV Bishna – Hiranagar ckt 4) 220kV Ghatti – Hiranagar ckt 5) 220kV BUS 1 Hiranagar(JK PDD) 6) 220/132kV 200 MVA ICT 1 7) 220/132kV 120 MVA ICT2
8	GI-1	Punjab	19-Oct-2022 22:38	20-Oct-2022 00:32	1:54	0	0	0.000	0.000	35724	44753	1. During antecedent condition, 220 KV Jamalpur(BB)-Sangrur(PS) (BB) Ckt-2, 220 KV Jamalpur(BB)-DandhariKalanI(PS) (PSTCL) Ckt-2 and 220 KV Ganguwal-Jamalpur (BB) Ckt-2 were connected at 220kV Bus-2(C) and rest of the elements were connected at 220kV Bus-1 & Bus-2(B). 2. As reported at 22:38hrs, Y-ph bus fault occurred on 220kV Bus-2 (C) due to flashover on Y-phase insulator string of 220kV Bus sectionalizer (A-18). On this fault, bus bar protection of Bus-2 (C) operated which led to tripping of all 220kV feeders connected at 220kV Bus-2(C) and bus coupler breaker opened. 3. As per PMU at Bhakhra(BBMB), Y-N phase to earth fault which cleared within 120ms is observed. 4. As per SCADA, no load loss observed in Punjab control area as alternate feeders were intact.	1) 220KV Bus 2 at Jamalpur(BB) 2) 220 KV Jamalpur(BB)-Sangrur(PS) (BB) Ckt-2 3) 220 KV Jamalpur(BB)-DandhariKalanI(PS) (PSTCL) Ckt-2 4) 220 KV Ganguwal-Jamalpur (BB) Ckt-2
9	GD-1	Uttar Pradesh	20-Oct-2022 10:17	20-Oct-2022 10:50	0:33	0	65	0.000	0.136	44515	47639	1. As reported at 10:17 hrs, B-N phase to earth fault occurred on 220kV Hapur-Simbholi (UP) ckt due to damage of polymer insulator of line, fault distance was 54.19km & ~5km and fault current was 2.4kA & 9.8kA from Simbholi & Hapur end respectively. 2. On this fault, distance protection operated at both ends. Line tripped from Hapur end but due to failure of mechanical mechanism of breaker at Simbholi end, B-ph pole of breaker got stuck and hence line didn't trip from Simbholi end. 3. As breaker of 220kV Hapur-Simbholi (UP) ckt at Simbholi end didn't open, LBB of this CB operated. However, due to defective wiring between busbar protection & LBB line protection, the CBF (Circuit Breaker Failure) initiation wasn't detected by busbar protection and busbar could not operate. Hence all 220 kV lines emanating from Simbholi S/s tripped from remote end in zone 2. 4. As per PMU, B-N phase to earth fault with delayed clearance in 640msec is observed. 5. As per SCADA, change in demand of approx. 50MW is observed in UP control area.	1) 220kV Hapur_765- Simbholi (UP) Ckt-2 2) 220kV Hapur_765- Simbholi(UP) Ckt-2 3) 220 KV Meerut(PG)-Simbholi(UP) (PG) Ckt-1 4) 220 KV NAPP(NP)-Simbholi(UP) (UP) Ckt-1 5) 220kV Hapur- Simbholi (UP) Ckt

Details of Grid Events during the Month of October 2022 in Northern Region

Sl No.	Category of Grid Event (GI 1or 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
10	GD-1	Uttarakhand	24-Oct-2022 13:39	24-Oct-2022 14:16	0:37	0	210	0.000	0.532	38998	39507	1. As reported at 13:39 hrs, Y-phase conductor of 220 KV Kashipur-Jafarpur(UK) Ckt (220 KV Kashipur-Pantnagar(UK) Ckt-2 LILO at Jafarpur) broke from gantry at Kashipur end and got in contact with top cover of CT hence created bus fault on 220kV Bus at Kashipur(UK). 2. As per PMU, Y-B fault which further converted into R-Y-B fault with delayed clearance of 1800ms is observed. 3. On this fault, 220 KV Kashipur-Jafarpur(UK) Ckt tripped on distance protection operation in Z-1 but as fault had converted into bus fault and bus bar protection is not in service at 400/220kV Kashipur S/s, 400/220 kV 315 MVA ICT 1 & ICT 2 at Kashipur(UK) tripped on overcurrent protection operation. At the same time, 220 KV Pantnagar(UK)-Bareilly(UP) (UP) Ckt-1 (Z-3 time delay 800ms) and 220 KV Kashipur-Pantnagar(UK) Ckt (Z-3 time delay 1000ms) tripped from remote end on distance protection operation in Z-3. 4. As reported, bus bar protection is not in service at 400/220kV Kashipur(Utt) S/s. 5. With the tripping of aforementioned elements, all load of Haldwani and Pantnagar shifted on 132kV Almora-Bhowali due to which it got overloaded and tripped on over-current protection after approx. 5sec of occurrence of fault. 6. As per SCADA, change in demand of approx. 210MW is observed in Uttarakhand control area.	1) 400/220 kV 315 MVA ICT 1 at Kashipur(UK) 2) 400/220 kV 315 MVA ICT 2 at Kashipur(UK) 3) 220 KV Pantnagar(UK)-Bareilly(UP) (UP) Ckt-1 4) 220 KV Kashipur-Pantnagar(UK) Ckt 5) 220 KV Kashipur-Jafarpur(UK) Ckt 6) 132 KV Almora-Bhowali(UK) Ckt
11	GD-1	J&K	26-Oct-2022 08:42	26-Oct-2022 09:01	0:19	0	480	0.000	1.173	35679	40922	1. As reported at 08:42 hrs, 220kV/132kV 150MVA ICT-3 at Pampore tripped on over current protection operation due to overloading, load was connected at 132kV level without proper communication which led to the sudden increase in loading of ICTs at Pampore. 2. With the tripping of ICT-3, 220kV/132kV 150MVA ICT-1 & ICT-2 also tripped on over current protection operation. 3. As per PMU, no fault is observed in system. 4. As per SCADA, change in load of approx. 480MW occurred in J&K control area.	1) 220kV/132kV 150MVA ICT-3 at Pampore 2) 220kV/132kV 150MVA ICT-1 at Pampore 3) 220kV/132kV 150MVA ICT-2 at Pampore

Details of Grid Events during the Month of October 2022 in Western Region

Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1or 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD-1	WR	04-Oct-22 19:29	05-Oct-22 02:06	6:37	86	-	0.001	-	57857	55522	At 19:29 Hrs/04-10-22, 220 kV Indore Bus 3 and all the connected elements tripped on Bus bar protection operation. 220 kV Indore-SBESS tripped during the event and resulted into loss of evacuation path & generation loss of about 86 MW at SBESS.	Tripping of 1. 220 kV Indore Bus 3 2. 220 kV Indore- SBESS 3. 400/220 kV Indore(PG) ICT 3
2	GD-1	WR	08-Oct-22 12:09	08-Oct-22 14:54	2:45	15	-	0.000	-	52802	50938	At 11:37 Hrs/08-10-2022, Emergency outage of 220 kV Bhuj Bus-6 was taken by Alfanar to attend the stuck earth switch of 220 kV Bhuj – Alfanar line. While attending the issue, at 12:09 hrs, 220 kV Bus-5 & Bus - 6 tripped, leading to tripping of 220 kV Bhuj – Gadhsisa & 220 kV Bhuj – Baranda lines. Due to these tripping, 15 MW wind generation loss reported at Gadhsisa & Baranda(Avikiran).	Tripping of 1. 220 kV Bhuj Buses 5&6 2. 220 kV Bhuj- Gadhsisa 3. 220 kV Bhuj- Baranda 4. 400/220 kV Bhuj ICTs 7&8
3	GD-1	WR	08-Oct-22 18:06	08-Oct-22 19:12	1:06	23	-	0.000	-	55828	53434	At 18:06 Hrs/08-10-22, 220 kV Bhuj Bus 5 tripped leading to tripping of 220 kV Bhuj- Ghadsisa (Renew Power), 400/220 kV Bhuj ICTs 7&8. Generation loss of 5 MW was reported at Gadhsisa (Renew Power). At the same time 220 kV Bhuj- Vadva tripped only from Vadva (GIWEL) end on R-Y fault leading to generation loss at Vadva (GIWEL). Generation loss of 18 MW was reported at Vadva (GIWEL).	Tripping of 1. 220 kV Bhuj Bus 5 2. 220 kV Bhuj- Gadhsisa 3. 220 kV Bhuj- Vadva 4. 400/220 kV Bhuj ICTs 7&8
4	GI-1	WR	13-Oct-22 11:50	13-Oct-22 15:00	3:10	-	100	-	0.002	51614	51432	At 11:50 Hrs/13-10-2022, 220 kV Mapusa-Ponda tripped on R-Y-B fault at Mapusa end. At the same time, 220 kV Amona –Ponda 2 and 220 kV Ponda-Xeldem radial ckt tripped on Earth Fault protection operation. Load loss of 100 MW was reported by SLDC Goa.	Tripping of 1. 220 kV Mapusa-Ponda 2. 220 KV Amona-Ponda 2 3. 220 KV Ponda- Xeldem radial ckt
5	GD-1	WR	14-Oct-22 11:15	14-Oct-22 12:44	1:29	155	-	0.003	-	51492	50868	At 11:15 Hrs/14-10-2022, 400 KV IEPL-Koradi tripped on B-E fault and subsequently, 400kV IEPL –Warora line tripped on over voltage protection operation. 270 MW IEPL Unit 1 tripped due to loss of evacuation path and a generation loss of 155 MW occurred.	Tripping of 1. 270 MW IEPL Unit 1 2. 400 KV IEPL-Warora line 3. 400 KV IEPL-Koradi line
6	GD-1	WR	20-Oct-22 16:28	21-Oct-22 21:47	5:19	33	-	0.001	-	55062	54508	At 16:28 Hrs/20-10-2022, 220 kV Bhuj-II- Sitac(Chugger-SKRPL) line tripped on Y-B fault. As informed by SKRPL, chain was found between Y-B phases between tower no. 71 &72. Due to loss of evacuation path, generation loss of 33 MW occurred at 220 kV Chugger(SKRPL) Wind power station.	Tripping of 1. 220 kV Bhuj-II- Chugger(SKRPL)
7	GI-1	WR	22-Oct-22 16:01	22-Oct-22 16:55	0:54	-	180	-	0.004	49376	50837	At 15:24 Hrs/ 22-10-2022, 220 kV Mahalaxmi-Amona tripped on B-E fault and at 15:41 Hrs, 220 kV Mapusa-Amona tripped on R-E fault. As informed by SLDC Goa, Heavy rains accompanied with lightning prevailed in Goa. Further at 16:01 Hrs, 220 kV Amona-Ponda-2 &3 also tripped on earth fault protection operation. Due to the above trippings, the 220 kV Ponda Bus 2 became dead affecting supply to 2 X 100MVA ICTs at Ponda S/s and 220KV Ponda-Xeldem radial feed to Xeldem S/s, leading to a total Load Loss of 180MW as reported by SLDC Goa.	Tripping of 1. 220 kV Mahalaxmi-Amona 2. 220 kV Mapusa-Amona 3. 220 kV Amona- Ponda-2&3
8	GI-1	WR	25-Oct-22 14:46	25-Oct-22 15:03	0:17	-	90	-	0.002	40096	40994	At 14:46 Hrs/25-10-2022, 220 kV Magarwada Bus 1 tripped on Bus bar protection operation due to failure of Y phase CT of 220/66 kV ICT 4. As informed by site, 220 kV Bus coupler was kept in open condition to control high reactive power flow from Vapi substation. There was a load loss of 90 MW due to the event.	Tripping of 1. 220 kV Magarwada(PG)- Magarwada 1&2 2. 220/66 kV Magarwada ICTs 1,3&4

Details of Grid Events during the Month of October 2022 in Southern Region

Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid		Brief details of the event (pre fault and post fault system conditions)	Name of Elements (Tripped/Manually opened)
	(GI 1or 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD-1	Karnataka	09-Oct-22 12:10	09-Oct-22 12:45	35mins	0	120	0.00%	0.31%	37549	39108	Complete outage of 220kV/66kV ITI SS and Tripping of 220kV Bus-2 of 220kV/66kV Manyatha SS of KPTCL: During antecedent conditions, 220kV/66kV Manyatha SS was operating under bus split conditions.As per the reports submitted, the triggering incident was B-N fault in 220kV ITI Manyata line and the line tripped. At the same time 220kV ITI Hoody line tripped only at ITI end. Tripping of these both lines resulted in complete outage of 220kV/66kV ITI SS and de-energisation of 220kV Bus-2 at 220kV/66kV Manyatha SS.	1. 220kV ITI Hoody 2. 220kV ITI Manyata
2	GD-1	Karnataka	11-Oct-22 00:41	11-Oct-22 02:19	1hr 38mins	0	85	0.00%	0.27%	30994	32027	Complete outage of 220kV/110kV Ambewadi SS of KPTCL: As per the reports submitted, at 220kV/110kV Ambewadi SS, BBP of 220kV Bus-1 and Bus-2 operated because of fault in Bus coupler bay and all the elements connected to the Buses tripped. This resulted in complete outage of 220kV/110kV Ambewadi SS.	1. 220kV Ambewadi Ponda 2. 220kV Ambewadi Nagjheri-1&2 3. 220kV Ambewadi Narendra-1&2 4. 220kV/110kV Ambewadi Transformer-1&2
3	GD-1	Andhra Pradesh	13-Oct-22 11:40	13-Oct-22 13:16	1 hrs 36 mins	100	0	0.25%	0.00%	39576	40025	Tripping of 220kV Bus-2 of 220kV Lower Sileru PH of APGENCO and Complete Outage of 220kV/33kV Chinturu SS of APTRANSCO : During antecedent conditions, 220kV Lower Sileru Chinturu was connected to 220kV Bus-1 at Lower Sileru PH. As per the report submitted, the triggering incident was B-N fault in 220kV Lower Sileru Chinturu line. At Lower Sileru end, Zone-2 protection operated and the line tripped. At the same time, 220kV Bus-2 BBP mal operated at 220kV Lower Sileru PH and all the elements connected the bus got tripped. Since 220kV/33kV Chinturu SS is radially connected to 220kV Lower Sileru PH, tripping of the only connected line resulted in complete outage of 220kV/33kV Chinturu SS.	1. 220kV Asupaka Lower Sileru 2. 220kV Lower Sileru Chinturu 3. Lower Sileru Unit-2
4	GD-1	Andhra Pradesh	16-Oct-22 17:09	16-Oct-22 22:22	5 hrs 13 mins	70	0	0.22%	0.00%	32113	33649	Multiple Tripping in 400kV/220kV Uravakonda SS of APTRANSCO and Complete Outage of 220kV/33kV Suzlon2, 220kV/33kV Suzlon4, 220kV/33kV Axis windfarm, 220kV/33kV GAMS SS : As per the reports submitted, the triggering incident was R-phase LA failure in 220kV Uravakonda Suzlon2 Line-2 at Uravakonda end. Line tripped on Zone-1 protection at Uravakonda end. At the same time, 220kV Bus-1 and Bus-2 BBP operated at Uravakonda SS and the same needs review. As 220kV/33kV Suzlon2, 220kV/33kV Suzlon4, 220kV/33kV Axis windfarm, 220kV/33kV GAMS SS are radially connected to 400kV/220kV Uravakonda SS, tripping of 220kV Bus-1 and Bus-2 at 400kV/220kV Uravakonda SS resulted in complete outage of these stations.	1. 400/220 KV Uravakonda ICT-1,2&3 2. 220kV Uravakonda GAMS-1&2 3. 220kV Uravakonda Suzlon2-1&2 4. 220kV Uravakonda Suzlon4-1&2 5. 220kV Uravakonda Axis Wind Farm-1&2
5	GD-1	Karnataka	20-Oct-22 09:25	20-Oct-22 12:00	2 hrs 35 mins	0	45	0.00%	0.12%	39172	38939	Complete Outage of 220kV Kadra PH of KPCL and 220kV/110kV Karwar SS of KPTCL: 220kV/110kV Karwar SS is radially fed from 220kV Kadra PH. During antecedent conditions, 220kV Kaiga Kadra Line was under LC. Because of this, 220kV/ Kadra SS was being radially fed from 220kV Kaiga PH. As per the reports submitted, the triggering incident was B-N fault in 220kV Kadra Kodsalli line and the line tripped. This resulted in complete outage of 220kV Kadra PH and 220kV/110kV Karwar SS .	1. 220kV Kadra Kodasalli
6	GD-1	Karnataka	22-Oct-22 15:51	22-Oct-22 16:05	14 mins	0	175	0.00%	0.46%	39002	37765	Complete Outage of 220kV/66kV Malur SS, 220kV/66kV Vikas Tech Park, 220kV/66kV Exora SS and 220kV/66kV Sarjapur SS of KPTCL: During antecedent conditions, 220kV Kolar Malur Line-1,2&3 were not in service. 220kV/66kV Malur SS, 220kV/66kV Vikas Tech Park, 220kV/66kV Exora SS and 220kV/66kV Sarjapur SS were being radially fed through the 220kV Malur Hoody line. As per the reports submitted, the triggering incident was Y-N fault in 220kV Hoody Malur line and the line tripped. Tripping of the only connected line resulted in complete outage of 220kV/66kV Malur SS, 220kV/66kV Vikas Tech Park, 220kV/66kV Exora SS and 220kV/66kV Sarjapur SS.	1. 220kV Hoody Malur
7	GD-1	Kerala	23-Oct-22 12:09	23-Oct-22 13:02	53 mins	25	46	0.06%	0.13%	40792	35137	Complete Outage of 220kV/110kV Ambalathara SS and 220kV/110kV/11kV Mylatty SS of KSEB: 220kV/110kV Ambalathara SS and 220kV/110kV/11kV Mylatty SS are being radially fed through 220kV Ambalathara Kanhirode and 220kV Taliparamba Mylatty lines. As per the reports submitted, the triggering incident was Y-N fault in 220kV Ambalathara Kanhirode and 220kV Taliparamba Mylatty lines and the lines tripped. Tripping of these both lines resulted in complete outage of 220kV/110kV Ambalathara SS and 220kV/110kV/11kV Mylatty SS.	1. 220kV Ambalathara Kanhirode 2. 220kV Taliparamba Mylatty
8	GD-1	Andhra Pradesh	25-Oct-22 02:59	25-Oct-22 06:58	3 hrs 59 mins	330	0	1.28%	0.00%	25761	25061	Complete Outage of 400kV RYTPP Generating station of APGENCO: As per the reports submitted, the triggering incident was failure of auxiliary supply to Unit-6 and the Unit tripped. Subsequently, 400kV RYTPP Kalikiri Line-2 and 400kV Chittoor Kalikiri Line-2 tripped on Over voltage protection at Kalikiri and DT was sent remote ends. 400kV RYTPP Kalikiri Line-1 tripped on Over voltage protection at RYTPP end and DT was sent to Kalikiri end. Tripping of both connected lines resulted in complete outage of 400kV RYTPP Generating station.	1. 400kV RYTPP Kalikiri Line-1&2 2. 400kV Chittoor Kalikiri Line-2 3. RYTPP Unit-6
9	GI-1	Kerala	21-Oct-22 17:23	21-Oct-22 21:31	4 hrs 8 mins	0	0	0.00%	0.00%	37366	38134	Tripping of 220kV Bus-1 and Bus-2, and Multiple trippings at 400kV/220kV Trivendrum SS of PGCIL SR-2 : As per the reports submitted, 220kV Bus-1 and Bus-2 BBP operated at 400kV/220kV Trivendrum SS while shifting 220kV Trivendrum_PG Pothencode Line-2 from 220kV Bus-1 to Bus-2. Immediately all the elements connected to the buses tripped.	1. 220kV Trivendrum_PG Pothencode Line-1,2,3&4 2. 400kV/220kV Trivendrum ICT-1,2&3

Details of Grid Events during the Month of October 2022 in Eastern Region

Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI 1 or 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD-1	Chatra	13-Oct-2022 10:22	13-Oct-2022 19:16	08:54	0	17	0.00%	0.08%	25872	20268	At 10:22 Hrs on 13.10.2022, 220 kV Daltonganj-Chatra-1 tripped due to R_N fault. Total power failed at Chatra S/s as it is being fed radially through only one circuit. 220 kV Daltonganj-Chatra-2 is LILOed at Latehar, however, 220 kV Latehar-Chatra is not charged yet. 17 MW load loss reported at Chatra by Jharkhand SLDC.	220 kV Daltonganj-Chatra-1
2	GD-1	Chatra	17-Oct-2022 10:50	17-Oct-2022 11:24	00:34	0	17	0.00%	0.08%	26386	21042	At 10:50 Hrs on 17.10.2022, 220 kV Daltonganj-Chatra-1 tripped due to B_N fault. Total power failed at Chatra S/s as it is being fed radially through only one circuit. 220 kV Daltonganj-Chatra-2 is LILOed at Latehar, however, 220 kV Latehar-Chatra is not charged yet. 17 MW load loss reported at Chatra by Jharkhand SLDC.	220 kV Daltonganj-Chatra-1
3	GD-1	Chatra	19-Oct-2022 15:09	19-Oct-2022 15:46	00:37	0	10	0.00%	0.05%	26540	20620	At 15:09 Hrs on 19.10.2022, 220 kV Daltonganj-Chatra-tripped due to Y_N fault. Total power failed at Chatra S/s as it is being fed radially through only one circuit. 220 kV Daltonganj-Chatra-2 is LILOed at Latehar, however, 220 kV Latehar-Chatra is not charged yet. 10 MW load loss reported at Chatra by Jharkhand SLDC.	220 kV Daltonganj-Chatra-1

Details of Grid Events during the Month of October 2022 in North Eastern Region

Sl No.	Category of Grid Event (GI 1or 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM:SS)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the		Antecedent Generation/Load in the Regional Grid		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD 1	Surajmaninagar area of Tripura Power System	02-Oct-22 02:15	02-Oct-22 03:54	1:39:00	0	84	0.00%	3.22%	2465	2610	Surajmaninagar area of Tripura Power System was connected with rest of NER grid through 132 Palatana - Surajmaninagar, 132 Agartala -Surajmaninagar 1 & 2, 132 kV Budhjungnagar - Surajmaninagar and 132 kV Surajmaninagar(ST)- Surajmaninagar lines. At 02:15 Hrs on 02.10.22, 132 Palatana - Surajmaninagar, 132 Agartala -Surajmaninagar 1 & 2, 132 kV Budhjungnagar - Surajmaninagar and 132 kV Surajmaninagar(ST)- Surajmaninagar lines tripped. Due to tripping of these elements, Surajmaninagar area of Tripura Power System got separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power supply was extended to Surajmaninagar area of Tripura Power System by charging 132 kV Surajmaninagar(ST)-Surajmaninagar line at 03:54 Hrs on 02.10.22.	132 Palatana - Surajmaninagar, 132 Agartala - Surajmaninagar 1 & 2, 132 kV Budhjungnagar - Surajmaninagar and 132 kV Surajmaninagar(ST)-Surajmaninagar lines.
2	GD 1	Tuirial HEP of Mizoram Power System	03-Oct-22 18:08	03-Oct-22 18:30	0:22:00	50	0	1.44%	0.00%	3484	2761	Tuirial HEP of Mizoram Power System was connected with the rest of the NER Grid through 132 kV Tuirial-Kolasib Line. At 18:08 Hrs on 03.10.2022,132 kV Tuirial-Kolasib Line tripped. Due to tripping of this element, Turial HEP of Mizoram Power System were separated from the rest of NER Grid and subsequently collapsed due to loss of evacution path. Power was extended to Turial HEP of Mizoram Power System by charging 132 kV Tuirial-Kolasib Line at 18:30 Hrs on 03.10.2022.	132 kV Tuirial-Kolasib Line
3	GD 1	Karbi Langpi Generating Station of Assam Power System	06-Oct-22 17:37	06-Oct-22 17:49	0:12:00	105	0	2.98%	0.00%	3518	3046	Karbi Langpi Generating Station of Assam Power System was connected with the rest of NER Grid through 220 kV Sarusajai-Karbi Langpi D/C lines. At 17:37 Hrs on 06.10.2022, 220 kV Sarusajai-Karbi Langpi D/C lines tripped. Due to tripping of these elements, Karbi Langpi Generating Station of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path. Power was extended to 132 kV Karbi Langpi Generating Station of Assam Power System by charging 132 kV Sarusajai-Karbi Langpi 1 line at 17:49 Hrs on 06.10.2022.	220 kV Sarusajai-Karbi Langpi D/C lines
4	GD 1	Dimapur area of Nagaland Power System	07-Oct-22 17:18	07-Oct-22 17:30	0:12:00	0	86	0.00%	2.91%	3197	2958	Dimapur area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Dimapur(PG) - Dimapur(Nagaland) 1 line (132 kV Dimapur(PG) - Dimapur(Nagaland)-2 line were under Emergency shutdown to attend VT fuse fail). At 17:18 Hrs on 07-10-22, 132 kV Dimapur(PG) - Dimapur(Nagaland) 1 line tripped. Due to tripping of this element, Dimapur area of Nagaland Power System was separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas. Power was extended to Dimapur area of Nagaland Power System by charging 132 kV Dimapur(PG) - Dimapur(Nagaland) 1 line at 17:30 Hrs on 07.10.2022.	132 kV Dimapur(PG) - Dimapur(Nagaland) 1 line
5	GD 1	Dimapur area of Nagaland Power System	07-Oct-22 17:41	07-Oct-22 18:17	0:36:00	0	80	0.00%	2.48%	3529	3230	Dimapur area of Nagaland Power System was connected with the rest of NER Grid through 132 kV Dimapur(PG) - Dimapur(Nagaland) 1 line (132 kV Dimapur(PG) - Dimapur(Nagaland) 2 line were under Emergency shutdown to attend VT fuse fail). At 17:41 Hrs on 07-10-22, 132 kV Dimapur(PG) - Dimapur(Nagaland) 1 line tripped. Due to tripping of this element, Dimapur area of Nagaland Power System was separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas. Power was extended to Dimapur area of Nagaland Power System by charging 132 kV Dimapur(PG) - Dimapur(Nagaland) 1 line at 18:17 Hrs on 07.10.2022.	132 kV Dimapur(PG) - Dimapur(Nagaland) 1 line
6	GD 1	Kohima(Capital), Wokha, Chiephobozou and radially connected areas of Nagaland Power System	07-Oct-22 20:53	07-Oct-22 20:59	0:06	24	18	1%	1%	3605	3130	Kohima(Capital), Wokha, Chiephobozou and radially connected areas of Nagaland Power System were connected with rest of NER grid through 132 kV Karong-Kohima and 132 kV Sanis-Wokha (132 kV Dimapur-Kohima line was under outage). At 20:53 Hrs on 07.10.22, 132 kV Sanis-Wokha, 132 kV Kohima-Chiephobozou, 132 kV Kohima-Meluri and 132 kV Karong-Kohima lines tripped. Due to tripping of these elements, Kohima(Capital), Wokha, Chiephobozou and radially connected areas of Nagaland Power System got separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. Power supply was extended to Wokha S/S by charging 132 kV Sanis-Wokha line at 20:59 Hrs on 07.10.22. Subsequently, Kohima was synchronised with NER Grid by charging 132 kV Kohima-Karong line at 21:19 Hrs. Subsequently, the other lines were charged. However, 132 kV Kohima - Cheiphobozou line was declared faulty.	132 kV Sanis-Wokha, 132 kV Kohima-Chiephobozou, 132 kV Kohima-Meluri and 132 kV Karong-Kohima lines
7	GD 1	Kohima (Capital), Meluri & Kiphire areas of Nagaland Power System	07-Oct-22 22:49	07-Oct-22 23:24	0:35	0	15	0%	1%	3230	2750	Kohima (Capital), Meluri & Kiphire areas of Nagaland Power System were connected with rest of NER grid through 132 kV Karong-Kohima (132 kV Dimapur-Kohima line was under outage and 132 kV Kohima - Cheiphobozou line was declared faulty). At 22:49 Hrs on 07.10.22, 132 kV Karong-Kohima line tripped. Due to tripping of this element, Kohima (Capital), Meluri & Kiphire areas of Nagaland Power System got separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. Power was extended to Kohima S/S by charging 132 kV Kohima-Karong line at 23:24 Hrs on 07.10.22. Subsequently Kohima - Meluri was charged.	132 Karong-Kohima Line

Details of Grid Events during the Month of October 2022 in North Eastern Region

Sl No.	Category of Grid Event (GI 1or 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM:SS)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the		Antecedent Generation/Load in the Regional Grid		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
8	GD 1	Pailapool area of Assam Power System	10-Oct-22 15:27	10-Oct-22 15:39	0:12:00	0	22	0.00%	1.03%	2995	2138	Pailapool area of Assam Power System was connected with rest of NER grid through 132 kV Pailapool - Srikona and 132 kV Pailapool - Jiribam lines. At 15:27 Hrs on 10.10.22,132 kV Pailapool - Srikona and 132 kV Pailapool - Jiribam lines tripped. Due to tripping of these elements, Pailapool area of Assam Power System got separated from rest of NER Grid and subsequently collapsed due to no source available in this area. Power supply was extended to Pailapool area of Assam Power System by charging 132 kV Pailapool - Srikona line at 15:39 Hrs on 10.10.22.	132 kV Pailapool - Srikona and 132 kV Pailapool - Jiribam lines.
9	GD 1	Leshka Generating station of Meghalaya Power System	11-Oct-22 06:47	11-Oct-22 07:06	0:19:00	84	0	2.52%	0.00%	3331	1914	Leshka Generating station of Meghalaya Power System was connected with rest of NER grid through 132 kV Leska-Khleihriat(ME) 1 & 2 lines. At 06:47 Hrs on 11.10.22, 132 kV Leshka-Khleihriat(ME) 1 &2 lines tripped. Due to tripping of these elements, Leshka Generating station of Meghalaya Power System got separated from rest of NER Grid and subsequently collapsed due to loss of evacuation path. Power supply was extended to Leshka Generating station of Meghalaya Power System by charging 132 kV Leshka-Khleihriat(ME) 2 line at 07:06 Hrs on 11.10.22.	132 kV Leshka - Khleihriat(ME) - 1 & 132 kV Leshka - Khleihriat(ME) - 2
10	GD 1	Mokokchung area of Nagaland Power System and 220/132KV Mokokchung(PG) substation	14-Oct-22 09:56	14-Oct-22 10:38	0:42:00	0	18	0.00%	0.78%	2595	2294	Mokokchung area of Nagaland Power System and 220/132KV Mokokchung(PG) substation were connected with the rest of NER Grid through 132 kV Doyang - Mokokchung (DoP, Nagaland) line. 220 kV Mariani - Mokokchung D/C lines were under Continuous Planned Shutdown. At 09:56 Hrs on 14.10.2022, 132 kV Doyang - Mokokchung (DoP, Nagaland) line tripped. Due to tripping of this element, Mokokchung area of Nagaland Power System and 220/132KV Mokokchung(PG) substation were separated from the rest of NER Grid and subsequently collapsed due to no source available in this area. Power was extended to Mokokchung area of Nagaland Power System and 220/132KV Mokokchung(PG) substation by charging 132 kV Doyang - Mokokchung (DoP, Nagaland) line at 10:38 Hrs on 14.10.2022.	132 kV Doyang - Mokokchung (DoP, Nagaland) line
11	GD 1	Tenga, Khupi & Dikshi HEP of Arunachal Pradesh Power System	15-Oct-22 10:30	15-Oct-22 11:08	0:38:00	9.5	22	0.39%	1.00%	2414	2199	Tenga, Khupi & Dikshi HEP of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Balipara-Tenga line. At 10:30 Hrs. on 15.10.22, 132 kV Balipara-Tenga line and Dikshi unit 1 tripped. Due to tripping of these elements, Tenga, Khupi & Dikshi HEP of Arunachal Pradesh Power System were separated from rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. Power supply was extended to Tenga, Khupi & Dikshi HEP of Arunachal Pradesh Power System by charging 132 kV Balipara - Tenga line at 11:08 Hrs. of 15.10.22.	132 kV Balipara - Tenga line& Dikshi HEP Unit 1
12	GD 1	Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System	17-Oct-22 00:02	17-Oct-22 00:32	0:30:00	0	13	0.00%	0.57%	2301	2275	Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were connected with the rest of NER Grid through 132 kV Along - Pasighat Line. At 00:02 Hrs on 17.10.2022,132 kV Along - Pasighat Line tripped. Due to tripping of this element, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were separated from the rest of NER Grid and subsequently collapsed due to no source available in these areas. Power was extended to Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System by charging 132 kV Along - Pasighat Line at 07:19 Hrs on 17.10.2022.	132 kV Along Pasighat
13	GD 1	Tuirial HEP of Mizoram Power System	17-Oct-22 10:34	17-Oct-22 10:56	0:22	58	0	2%	0%	2382	2293	Tuirial HEP of Mizoram Power System was connected with the rest of the NER Grid through 132 kV Tuirial-Kolasib Line. At 10:34 Hrs on 17.10.2022,132 kV Tuirial-Kolasib Line tripped.Due to tripping of this element, Turial HEP of Mizoram Power System were separated from the rest of NER Grid and subsequently collapsed due to loss of evacution path. Power was extended to Turial HEP of Mizoram Power System by charging 132 kV Tuirial-Kolasib Line at 10:56 Hrs on 17.10.2022.	132 kV Tuirial-Kolasib Line
14	GD 1	Mokokchung area of Nagaland Power System and 220/132KV Mokokchung(PG) substation	17-Oct-22 21:49	17-Oct-22 23:29	1:40	0	17	0%	1%	3455	2706	Mokokchung area of Nagaland Power System and 220/132KV Mokokchung(PG) substation were connected with the rest of NER Grid through 132 kV Doyang - Mokokchung (DoP, Nagaland) line. 220 kV Mariani - Mokokchung D/C lines were under Continuous Planned Shutdown. At 21:49 Hrs on 17.10.2022, 132 kV Doyang - Mokokchung (DoP, Nagaland) line tripped. Due to tripping of this element, Mokokchung area of Nagaland Power System and 220/132KV Mokokchung(PG) substation were separated from the rest of NER Grid and subsequently collapsed due to no source available in this area. Power was extended to Mokokchung area of Nagaland Power System and 220/132KV Mokokchung(PG) substation by charging 132 kV Doyang - Mokokchung (DoP, Nagaland) line at 23:29 Hrs on 17.10.2022.	132 kV Doyang - Mokokchung (DoP, Nagaland) line

Details of Grid Events during the Month of October 2022 in North Eastern Region

Sl No.	Category of Grid Event (GI 1or 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM:SS)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the		Antecedent Generation/Load in the Regional Grid		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss(MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
15	GD 1	Kohima,Wokha, Chiephobozou, Meluri & Kiphire areas of Nagaland Power System	24-Oct-22 21:33	24-Oct-22 22:20	0:47	24	15	1%	1%	2743	1387	Kohima,Wokha, Chiephobozou, Meluri & Kiphire areas of Nagaland Power System, were connected with the rest of NER Grid through 132kV Karong-Kohima, 132 kV Sanis-Wokha lines. 132 kV Dimapur-Kohima was under outage. At 21:33 Hrs on 24.10.2022, 132 kV Karong-Kohima, 132 kV Sanis-Wokha lines tripped. Due to tripping of these elements, Kohima, Wokha, Chiephobozou, Meluri & Kiphire areas of Nagaland Power System were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. Power was extended to Kohima, Wokha, Chiephobozou, Meluri & Kiphire Substations of Nagaland Power System by charging 132 kV Kohima-Karong line at 22:20 Hrs on 24.10.2022.	132kV Karong-Kohima, 132 kV Sanis-Wokha lines
16	GD 1	Kohima, Meluri & Kiphire areas of Nagaland Power System,	25-Oct-22 00:24	25-Oct-22 00:43	0:19	24	9	1%	1%	2145	1005	Kohima, Meluri & Kiphire areas of Nagaland Power System, were connected with the rest of NER Grid through 132kV Karong-Kohima. 132 kV Dimapur-Kohima line and 132 kV Kohima-Chephobozou were under outage condition. At 00:24 Hrs on 25.10.2022, 132 kV Karong-Kohima line tripped. Due to tripping of these elements, Kohima, Meluri & Kiphire areas of Nagaland Power System were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. Power was extended to Kohima, Meluri & Kiphire areas of Nagaland Power System by charging 132 kV Kohima-Karong line at 00:43 Hrs on 25.10.2022.	132 kV Karong-Kohima line 132 kV Kohima-Meluri line Likhimro Unit 1,2 ,3
17	GD 1	Kohima, Meluri & Kiphire areas of Nagaland Power System	26-Oct-22 08:41	26-Oct-22 09:41	1:00	0	25	0%	1%	2971	1827	Kohima, Meluri & Kiphire areas of Nagaland Power System, were connected with the rest of NER Grid through 132kV Karong-Kohima,132 kV Kohima-Chephobozou and 132 kV Kohima-Meluri lines (132 kV Dimapur- Kohima line and 132 kV Sanis-Wokha line were under outage condition). At 08:41 Hrs on 26.10.2022, 132 kV Karong-Kohima and 132 kV Kohima-Meluri lines tripped. Due to tripping of these elements, Kohima, Chiephobozou,Wokha,Meluri, & Kiphire areas of Nagaland Power System were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. Power was extended to Kohima, Meluri & Kiphire areas of Nagaland Power System by charging 132 kV Kohima-Karong line at 14:21 Hrs on 26.10.2022.	132 kV Karong-Kohima line &132 kV Kohima-Meluri line
18	GD 1	Kohima,Chiephobozou & Wokha areas of Nagaland Power System	26-Oct-22 16:41	26-Oct-22 17:15	0:34	0	28	0%	1%	2763	2201	Kohima,Chiephobozou & Wokha areas of Nagaland Power System, were connected with the rest of NER Grid through 132kV Karong-Kohima (132 kV Dimapur- Kohima line, 132 kV Kohima-Meluri line and 132 kV Sanis-Wokha line were under outage condition). At 16:41 Hrs on 26.10.2022, 132 kV Karong-Kohima line tripped. Due to tripping of these elements, Kohima, Chiephobozou &Wokha areas of Nagaland Power System were separated from the rest of NER Grid and subsequently collapsed due to load generation mismatch in these areas. Power was extended to Kohima,Chiephobozou &Wokha areas of Nagaland Power System by charging 132 kV Kohima-Karong line at 17:15 Hrs on 26.10.2022.	132 kV Karong-Kohima line
19	GI 2	Assam	02-Oct-22 15:30	02-Oct-22 18:12	2:42	125	0	5%	0%	2548	2459	BgTPP Unit 2 tripped at 15:30 Hrs on 02-10-22 due to flame failure. Revision done from Block No.69 on 02-10-22.	BgTPP Unit 2
20	GI 2	Assam	14-Oct-22 00:44	14-Oct-22 03:00	2:16	140	0	5%	0%	2707	2066	BgTPP Unit 3 tripped at 00:44 Hrs on 14-10-22 due to electrical tripping (Tie transformer 2 breaker flashover). Revision done from Block No.13 on 14-10-22.	BgTPP Unit 3
21	GI 2	Assam	25-Oct-22 12:27	25-Oct-22 14:30	2:03	63	0	3%	0%	2325	1424	AGBPP Unit 1, Unit 5, & Unit 9 tripped at 12:27 Hrs on 25-10-22 due to Due to tripping of auxillary supply. Revision done from Block No.59 on 14-10-22.	AGBPP Unit 1, Unit 5, & Unit 9
22	GI 1	Nagaland	29-Oct-22 13:42	29-Oct-22 15:30	1:48	22	0	1%	0%	2566	2013	Doyang Unit 2 tripped at 13:42 Hrs on 29-10-22 due to hot air temperature high. Revision done from Block No.63 on 29-10-22.	Doyang Unit 2